

APPENDIX A COORDINATION

Cooperating and Participating Agencies

Agency	Type of Invitation	Response		
Federal Agencies				
U.S. Army Corps of Engineers (USACE)	Cooperating	Accepted		
U.S. Fish and Wildlife Service (USFWS)	Cooperating	Accepted		
Advisory Council on Historic Preservation (ACHP)	Cooperating	Accepted		
U.S. Environmental Protection Agency (EPA)	Cooperating	Accepted as participating only		
Bureau of Indian Affairs	Participating	Declined participation		
Federal Emergency Management Agency (FEMA)	Participating	Declined participation		
Natural Resources Conservation Service (NRCS)	Participating	Declined participation		
State Agencies				
Governor's Office of Planning & Budget, Resource Development Coordinating Committee	Participating	Declined participation		
Department of Environmental Quality (DEQ), Division of Air Quality	Participating	No response		
DEQ, Division of Water Quality	Participating	No response		
DEQ, Division of Environmental Response & Remediation	Participating	Declined participation		
Department of Natural Resources (DNR), Division of Parks & Recreation	Participating	No response		
DNR, Division of Wildlife Resources	Participating	Declined participation		
DNR, Division of Water Resources	Participating	No response		
DNR, Division of Water Rights	Participating	Declined participation		

APPENDIX A: COORDINATION

Cooperating and Participating Agencies

Agency	Type of Invitation	Response	
Utah State Historic Preservation Office (SHPO)	Participating	No response	
Regional or Local Governments or Agencies			
Mountainland Association of Governments (MAG)	Participating	No response	
Utah Transit Authority (UTA)	Participating	Accepted	
Payson City	Participating	Accepted	

Tribal and Section 106 Consultation

Native American Tribe or Organization	Response
Ute Indian Tribe of the Uintah and Ouray Reservation	No response
Shoshone-Bannock Tribes of the Fort Hall Reservation	No response
Northwestern Band of the Shoshone Nation	No response
Eastern Shoshone Tribe of the Wind River Reservation	No response
Skull Valley Band of Goshutes	No response
Paiute Indian Tribe of Utah	No response
Cedar Band of Paiute	No response
Shivwits Band of Paiute	No response

Additional Local Historic Outreach

Local Organization
Payson Certified Local Government
Peteetneet Museum and Cultural Arts Center
Daughters of the Utah Pioneers – Utah County Chapter
Payson Historical Society



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Jason Gipson Chief, Nevada-Utah Regulatory Branch U.S. Army Corps of Engineers 533 West 2600 South, STE 150 Bountiful, UT 84010

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Gipson:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Your agency has been identified as an agency that may have interest in the project, or expertise and/or jurisdiction regarding issues pertaining to this study. This letter is an invitation to become a cooperating agency. As a cooperating agency, you would participate in the environmental review process; provide information or prepare environmental analyses to support the EIS; and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

- Agency accepts invitation to be a cooperating agency
- Agency declines invitation to be a cooperating agency, but elects to be a participating agency (default level of involvement if no response is received).
- Agency declines invitation to participate in this project as either a cooperating or participating agency.

- Has no jurisdiction or authority with respect to the project;
- · Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

You are invited to participate in the agency scoping meeting:

WHEN: Tuesday, March 17, 2015, from 1:00 p.m. to 3:00 p.m.

WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

RSVP: If you plan to attend the meeting, please RSVP by March 13, 2015 to

afellows@hwlochner.com.

In addition to the above-listed agency scoping meeting, a public scoping meeting will be held:

WHEN: Thursday, March 19, 2015, from 5:00 p.m. to 7:00 p.m. WHERE: Clarion Event Center, 463 East 100 North, Payson, Utah

If you elect not be a cooperating agency, we would still like to receive your input and comments regarding the project.

We look forward to your response and to working with you as a cooperating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely.

Elizabeth Cramer

Area Engineer/Project Manager

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Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Larry Crist Field Supervisor U.S. Fish & Wildlife Service 2369 West Orton Circle, STE 50 West Valley City, UT 84119

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Crist:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

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Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. John M. Fowler
Executive Director
Advisory Council on Historic Preservation
401 F Street NW, STE 308
Washington, DC 20001

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Fowler:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely, Culoue Kocher for

Elizabeth Cramer

Area Engineer/Project Manager

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March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Shaun McGrath Regional Administrator U.S. Environmental Protection Agency 1595 Wynkoop Street Denver, CO 80202

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. McGrath:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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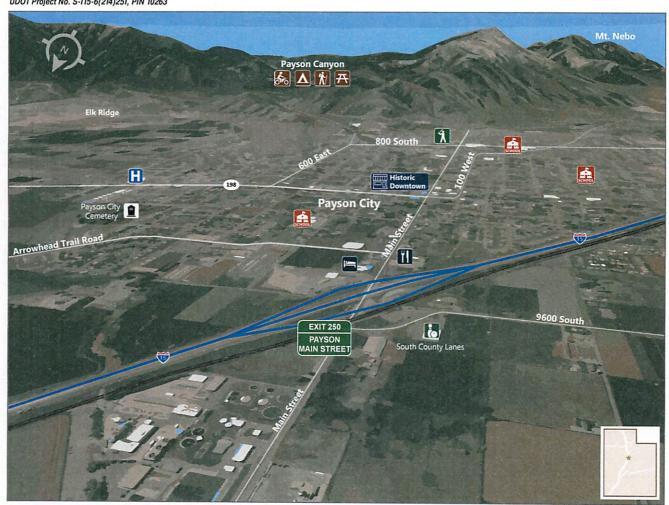
Sincerely,

Cellen Recherger
Elizabeth Cramer

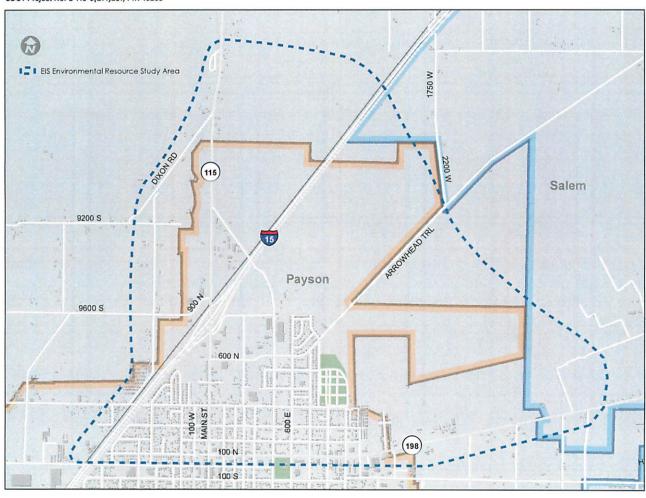
Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies

Project Area I-15 Payson Main Street Interchange Environmental Impact Statement UDOT Project No. S-115-6(214)251, PIN 10263



Environmental Resource Study Area I-15 Payson Main Street Interchange Environmental Impact Statement UDOT Project No. S-115-6(214)251, PIN 10263





March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

In Reply Refer To: HDA-UT

Mr. Bryan Bowker Regional Director Bureau of Indian Affairs 2600 North Central Avenue Phoenix, AZ 85004

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Bowker:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Calene Cecher for Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Ms. Sharon Loper Acting Regional Administrator Federal Emergency Management Agency Denver Federal Center, Building 710 P.O. Box 25267 Denver, CO 80255

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Ms. Loper:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. David Brown
State Conservationist
Natural Resources Conservation Service
Wallace F. Bennett Federal Building
125 South Sate Street, Room 4010
Salt Lake City, UT 84138

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Brown:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

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Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Ms. Sindy Smith
Acting Coordinator
Governor's Office of Planning & Budget,
Resource Development Coordinating Committee
Utah State Capitol
Suite 150 – PO Box 132210
Salt Lake City, UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Ms. Smith:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

- Agency accepts invitation to be a participating agency
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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Bryce Bird
Director
Utah Department of Environmental Quality, Division of Air Quality
PO Box 144820
Salt Lake City, UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Bird:

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Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to April 2, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation

Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

- Has no jurisdiction or authority with respect to the project;
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Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

In Reply Refer To: HDA-UT

Mr. Walt Baker
Director
Utah Department of Environmental Quality, Division of Water Quality
PO Box 144870
Salt Lake City, UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Baker:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to April 2, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation

Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

- Has no jurisdiction or authority with respect to the project;
- · Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

You are invited to participate in the agency scoping meeting:

WHEN: Tuesday, March 17, 2015, from 1:00 p.m. to 3:00 p.m.

WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

RSVP: If you plan to attend the meeting, please RSVP by March 13, 2015 to

afellows@hwlochner.com.

In addition to the above-listed agency scoping meeting, a public scoping meeting will be held:

WHEN: Thursday, March 19, 2015, from 5:00 p.m. to 7:00 p.m. WHERE: Clarion Event Center, 463 East 100 North, Payson, Utah

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Chlene Kecher for Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Brent Everett
Director
Utah Department of Environmental Quality,
Division of Environmental Response & Remediation
PO Box 144840
Salt Lake City, UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Everett:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

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WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

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WHEN: Thursday, March 19, 2015, from 5:00 p.m. to 7:00 p.m. WHERE: Clarion Event Center, 463 East 100 North, Payson, Utah

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Culene Kecher for

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Fred Hayes
Director
Utah Department of Natural Resources
Division of Parks & Recreation
1594 West North Temple, STE 116
Salt Lake City, UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Hayes:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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- Agency accepts invitation to be a participating agency
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- Does not intend to submit comments on the project.

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WHEN: Tuesday, March 17, 2015, from 1:00 p.m. to 3:00 p.m.

WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

RSVP: If you plan to attend the meeting, please RSVP by March 13, 2015 to

afellows@hwlochner.com.

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WHEN: Thursday, March 19, 2015, from 5:00 p.m. to 7:00 p.m. WHERE: Clarion Event Center, 463 East 100 North, Payson, Utah

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Calene Kecher fer

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Greg Sheehan
Division Director
Utah Department of Natural Resources
Division of Wildlife Resources
1594 West North Temple, STE 2110
Salt Lake City, UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Sheehan:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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- Agency accepts invitation to be a participating agency
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You are invited to participate in the agency scoping meeting:

WHEN: Tuesday, March 17, 2015, from 1:00 p.m. to 3:00 p.m.

WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

RSVP: If you plan to attend the meeting, please RSVP by March 13, 2015 to

afellows@hwlochner.com.

In addition to the above-listed agency scoping meeting, a public scoping meeting will be held:

WHEN: Thursday, March 19, 2015, from 5:00 p.m. to 7:00 p.m. WHERE: Clarion Event Center, 463 East 100 North, Payson, Utah

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Welene Kecker for

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Eric Millis
Division Director
Utah Department of Natural Resources
Division of Water Resources
1594 West North Temple, STE 310
Salt Lake City, UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Millis:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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You are invited to participate in the agency scoping meeting:

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WHERE: UDOT Region 2 Offices (Milestone Conference Room)

2010 South 2760 West, Salt Lake City, Utah

RSVP: If you plan to attend the meeting, please RSVP by March 13, 2015 to

afellows@hwlochner.com.

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Allene Kecker fer Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Kent Jones
State Engineer
Utah Department of Natural Resources
Division of Water Rights
1594 West North Temple, STE 220
Salt Lake City, UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Jones:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Chilene Kocher for Elizabeth Cramer

Area Engineer/Project Manager

Enclosures - Project Area Maps, 2 copies



March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Brad Westwood Historic Preservation Officer Utah State Historic Preservation Office 300 Rio Grande Salt Lake City, UT 84101

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Westwood:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

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afellows@hwlochner.com.

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Calone Kecher for

Enclosures - Project Area Maps, 2 copies



UTAH DIVISION

March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Shawn Elliot Mountainland Association of Governments 586 East 800 North Orem, UT 84097

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Elliot:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Please respond in writing with an acceptance or denial of this invitation prior to April 2, 2015. In your response, please indicate one of the following:

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

Culine Kether for

Enclosures - Project Area Maps, 2 copies



UTAH DIVISION

March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

> In Reply Refer To: HDA-UT

Mr. Matt Sibul Chief Planning Officer Utah Transit Authority 669 West 200 South Salt Lake City, UT 84101

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Sibul:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

aline locker for

Enclosures - Project Area Maps, 2 copies



UTAH DIVISION

March 4, 2015

2520 West 4700 South, STE 9A Salt Lake City, UT 84129 (801) 955-3500 FAX (801) 955-3539

In Reply Refer To: HDA-UT

Mr. David Tuckett City Manager Payson City 439 West Utah Avenue Payson, UT 84651

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Mr. Tuckett:

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network.

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Sincerely,

Elizabeth Cramer

Area Engineer/Project Manager

blene Kecher for

Enclosures - Project Area Maps, 2 copies

Project Area I-15 Payson Main Street Interchange Environmental Impact Statement UDOT Project No. S-115-6(214)251, PIN 10263



Environmental Resource Study Area I-15 Payson Main Street Interchange Environmental Impact Statement UDOT Project No. S-115-6(214)251, PIN 10263





May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Larry Crist Field Supervisor U.S. Fish & Wildlife Service 2369 West Orton Circle, Suite 50 West Valley City, UT 84119

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Crist:

The intent of this letter is to follow up on the invitation to become a cooperating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a cooperating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands (see Study Area Map). Your agency has been identified as an agency that has jurisdiction by law or special expertise with respect to an environmental impact. This letter is an invitation to become a cooperating agency. As a cooperating agency, you would participate in the environmental review process; provide information or prepare environmental analyses to support the EIS; and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

A cooperating agency has a higher degree of authority, responsibility, and involvement in the environmental review process than a participating agency. Pursuant to 40 CFR 1506.3, a cooperating agency may adopt without recirculating the environmental impact statement of a lead agency when, after independent review of the statement, the cooperating agency concludes that its comments and suggestions have been satisfied.

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a cooperating agency.
- Agency declines invitation to be a cooperating agency, but elects to be a
 participating agency. If no response is received, your agency will automatically
 be considered a participating agency. Agency declines invitation to participate in
 this project as either a cooperating or participating agency.

If your agency elects not to become a cooperating or participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a cooperating agency must specifically state in its response that the agency:

- Has no jurisdiction or authority with respect to the project;
- Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

We look forward to your response and to working with you as a cooperating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Jim Fowler
Executive Director
Advisory Council on Historic Preservation
401 F Street NW, STE 308
Washington, DC 20001-2637

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Fowler:

The intent of this letter is to follow up on the invitation to become a cooperating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a cooperating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands (see Study Area Map). Your agency has been identified as an agency that has jurisdiction by law or special expertise with respect to an environmental impact. This letter is an invitation to become a cooperating agency. As a cooperating agency, you would participate in the environmental review process; provide information or prepare environmental analyses to support the EIS; and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

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- Agency declines invitation to participate in this project as either a cooperating or participating agency.

If your agency elects not to become a cooperating or participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a cooperating agency must specifically state in its response that the agency:

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- Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

We look forward to your response and to working with you as a cooperating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Jason Gipson Chief, Nevada-Utah Regulatory Branch U.S. Army Corps of Engineers 533 West 2600 South, Suite 150 Bountiful, UT 84010

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Gipson:

The intent of this letter is to follow up on the invitation to become a cooperating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a cooperating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

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We look forward to your response and to working with you as a cooperating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Shaun McGrath Regional Administrator U.S. Environmental Protection Agency 1595 Wynkoop Street Denver, CO 80202

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Cooperating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. McGrath:

The intent of this letter is to follow up on the invitation to become a cooperating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a cooperating agency.

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Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

I-15; Payson Main Street Interchange EIS: Study Area 8000 S 164 115 1750 W 2200 W 9200 S 9600 S 198 SALEM CANAL RO 800 S 178 ELK RIDGE DR 198



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. David Brown
State Conservationist
Natural Resources Conservation Service
Wallace F. Bennett Federal Building
125 South State Street, Room 4010
Salt Lake City, UT 84138

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Brown:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

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- Agency accepts invitation to be a participating agency
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- Does not intend to submit comments on the project.

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Ms. Sharon Loper Acting Regional Administrator Federal Emergency Management Agency Denver Federal Center, Building 710 Denver, CO 80255

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Ms. Loper:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Bryan Bowker Regional Director Bureau of Indian Affairs 2600 N. Central Avenue 4th Floor Mailroom Phoenix, AZ 85004

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Bowker:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. David Tuckett City Manager Payson City 439 West Utah Avenue Payson, UT 84651

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Tuckett:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

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Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Shawn Elliot Mountainland Association of Governments 586 East 800 North Orem, UT 84097

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Elliot:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

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Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Brad Westwood Historic Preservation Officer Utah State Historic Preservation Office 300 Rio Grande Salt Lake City UT 84101

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Westwood:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

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Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Kent Jones
State Engineer
Utah Department of Natural Resources
Division of Water Rights
1594 West North Temple, STE 220
Salt Lake City UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Jones:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We received an email from your agency declining the invitation to be a participating agency. We encourage you to review the additional information provided and revisit the decision not to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

- Has no jurisdiction or authority with respect to the project;
- · Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Greg Sheehan
Division Director
Utah Department of Natural Resources
Division of Wildlife Resources
1594 West North Temple, STE 2110
Salt Lake City UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Sheehan:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. We received an email from your agency declining the invitation to be a participating agency. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision not to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

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- Has no expertise or information relevant to the project; and
- Does not intend to submit comments on the project.

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Fred Hayes
Director
Utah Department of Natural Resources
Division of Parks and Recreation
1594 West North Temple, STE 116
Salt Lake City UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Hayes:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

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- Does not intend to submit comments on the project.

If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure



Utah Division

May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Eric Millis
Division Director
Utah Department of Natural Resources
Division of Water Resources
1594 West North Temple, STE 310
Salt Lake City UT 84116

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Millis:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands. Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

cc: Brandon Weston, UDOT - Environmental Rich Crosland, UDOT - Region 3 Matt Parker, Project Manager - UDOT



Utah Division

May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Brent Everett
Director
Utah Department of Environmental Quality
Division of Environmental Response & Remediation
P.O. Box 144840
Salt Lake City UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Everett:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands. Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

If your agency elects not to become a participating agency, you must decline this invitation in writing. Pursuant to Section 6002 of the Safe, Accountable, Flexible, Efficient Transportation Equity Act: A Legacy for Users (SAFETEA-LU) (23 USC 139), any federal agency that declines the invitation to be a participating agency must specifically state in its response that the agency:

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If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

cc: Brandon Weston, UDOT - Environmental Rich Crosland, UDOT - Region 3 Matt Parker, Project Manager - UDOT



Utah Division

May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

In Reply Refer To: HDA-UT

Mr. Walt Baker
Director
Utah Department of Environmental Quality
Division of Water Quality
P.O. Box 144870
Salt Lake City UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Baker:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands. Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

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If you elect not be a participating agency, we would still like to receive your input and comments regarding the project. However, your agency will forego the opportunity to provide early input on several project issues such as the development of purpose and need, the range of alternatives, and environmental resource impact assessment methodologies.

We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

cc: Brandon Weston, UDOT - Environmental Rich Crosland, UDOT - Region 3 Matt Parker, Project Manager - UDOT



Utah Division

May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Mr. Bryce Bird
Director
Utah Department of Environmental Quality
Division of Air Quality
P.O. Box 144820
Salt Lake City UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Mr. Bird:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We encourage you to review the additional information provided and revisit the decision to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands. Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

cc: Brandon Weston, UDOT - Environmental Rich Crosland, UDOT - Region 3 Matt Parker, Project Manager - UDOT



Utah Division

May 20, 2015

2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874 801-955-3500 FAX 801-955-3539

> In Reply Refer To: HDA-UT

Ms. Sindy Smith
Chief, Nevada-Utah Regulatory Branch
Acting Coordinator
Governor's Office of Planning & Budget
Resource Development Coordinating Committee
Utah State Capitol – STE 150
P.O. Box 132210
Salt Lake City UT 84114

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement

Invitation to Become a Participating Agency Project No. S-I15-6(214)251; PIN 10263

Dear Ms. Smith:

The intent of this letter is to follow up on the invitation to become a participating agency sent March 3, 2015. We are sending a follow-up letter to clarify the scope of the potential project alternatives. The original letter gave the impression that the project would only have impacts to existing, urbanized facilities and adjacent areas. Taking into account the broad range of potential project alternatives, this project could potentially impact undeveloped lands (see Study Area Map). We received an email from your agency declining the invitation to be a participating agency because you are usually involved with projects located in rural Utah (not cities). We encourage you to review the additional information provided and revisit the decision not to become a participating agency.

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), is preparing an environmental impact statement (EIS) for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The EIS will evaluate a reasonable range of alternatives for the interchange, as well as connections from the interchange to the adjacent local road network. Alternatives under consideration include relocating the existing interchange, modifying the existing interchange in its current location, and any other feasible alternatives identified through the scoping process. This project will address such needs as traffic operations and safety issues on the I-15 Main Street interchange, and future transportation needs based on future growth projections and development.

Relocating the existing interchange to the north could potentially impact undeveloped lands and up to 20 acres of wetlands. Your agency has been identified as an agency that may have interest in the project. This letter is an invitation to become a participating agency. As a participating agency, you would participate in the environmental review process and make staff available at the request of FHWA and UDOT (40 CFR 1501.6).

Please respond in writing with an acceptance or denial of this invitation prior to June 15, 2015. In your response, please indicate one of the following:

- Agency accepts invitation to be a participating agency
- Agency declines invitation to participate in this project as a participating agency

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We look forward to your response and to working with you as a participating agency. Please feel free to contact me at (801) 955-3527 or elizabeth.cramer@dot.gov if you have any questions or would like to discuss in more detail the project or the roles and responsibilities your agency would have during the preparation of the EIS.

Sincerely,

Elizabeth Cramer Area Engineer

Enclosure

cc: Brandon Weston, UDOT - Environmental Rich Crosland, UDOT - Region 3 Matt Parker, Project Manager - UDOT I-15; Payson Main Street Interchange EIS: Study Area 8000 S 164 115 1750 W 2200 W 9200 S 9600 S 198 SALEM CANAL RO 800 S 178 800 S (78)



United States Department of the Interior FISH AND WILDLIFE SERVICE

UTAH FIELD OFFICE 2369 WEST ORTON CIRCLE, SUITE 50 WEST VALLEY CITY, UTAH 84119

April 20, 2015

FWS/R6 ES/UT 15-CPA-0008

Elizabeth Cramer, Area Engineer Federal Highway Administration 2520 West 4700 South, Suite 9A Salt Lake City, Utah 84129

RE: Notice of Intent to prepare an Environmental Impact Statement (EIS): City of Payson Highway Interchange Improvement Project, Utah County, Utah.

Dear Ms. Cramer,

We received your notice of intent to prepare an Environmental Impact Statement (EIS) for the subject project. Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UIDOT) and the City of Payson, will prepare an EIS for proposed improvements to the Interstate 15 (I-15) Payson Main Street interchange. The 4.6-square mile study area centers on I-15 Exit 251 in Payson. The project will address (1) traffic operations and safety issues on the I-15 Main Street interchange; and (2) future transportation needs based on future growth projections and development. We are providing the following comments to you for your consideration.

Pursuant to the National Environmental Policy Act (NEPA), the Migratory Bird Treaty Act, the Endangered Species Act (ESA) of 1973, as amended (16 U.S.C. 1531 *et seq.*), we are identifying issues that should be addressed relative to fish and wildlife resources for this project. In Section 1, we identify issues that should be addressed in the NEPA compliance document for this project. In Section 2, we address your ESA section 7 responsibilities.

Section 1

Wetland habitat

The Environmental Resource Study Area (project area) contains numerous wetlands that are part of a larger wetland complex between the Wasatch mountains and Utah Lake. This wetland complex functions to store run-off, releasing it slowly to Utah Lake over the growing season. Consequently, these wetlands provide valuable flood control. They also provide critical habitat

for a diverse assemblage of species including many macro-invertebrates, amphibians, reptiles, fish, birds, mammals, plants, and pollinators. Wetlands and open water are rare in Utah, and comprise less than five percent of the land mass in the state (Sutter et al. 2005). Impacts to these areas should be avoided to the greatest extent possible.

Wetlands function optimally for flood control, water quality improvement, and wildlife habitat when an upland buffer exists to separate them from adjacent development. For wetland wildlife species, upland buffers provide movement corridors, nesting and foraging habitat. As you consider whether to improve the existing interchange or relocate it, we recommend that you ensure an adequate upland buffer for wetlands in the area.

Roads have significant ecological effects, creating permanent negative impact to the land on which they are built as well as to the function and value of adjacent lands. Your EIS should fully analyze all direct, indirect and cumulative effects of build alternatives to water resources, including wetlands and their upland buffers, and the wildlife species that depend on them. We specifically recommend that you evaluate the effects of direct habitat loss, on-road mortality, wildlife displacement by noise, light and noise disturbance, fragmentation, hydrologic modification including possible impacts to groundwater from soil compaction, introduction and spread of noxious weeds, and water quality impacts (Forman and Alexander, 1998).

We further recommend that you analyze the potential effect of this project to induce land use changes. Population growth in Utah County has been rapid in the last decade resulting in the conversion of agricultural fields to either commercial or residential use. The EIS should analyze each alternative relative to its potential to increase development in the surrounding area.

Where impacts to wetland and wildlife resources are unavoidable, we recommend full compensatory mitigation. We encourage FHWA and UDOT to explore mitigation opportunities in conjunction with the many other projects in the eastern Utah Lake vicinity that are either in planning or implementation phases. Compensatory mitigation should be consolidated into larger areas within the landscape to provide high quality and functional wildlife habitat and allow for more effective land management.

Migratory Birds

The Migratory Bird Treaty Act prohibits the take of migratory birds, their parts, nests, eggs, and nestlings. Executive Order 13186, issued on January 11, 2001, affirmed the responsibilities of Federal agencies to comply with the MBTA. In your EIS, we recommend that you identify potential short-term and long-term impacts to migratory birds and their habitat. You may wish to focus on impacts to species on the Service's 2008 List of Birds of Conservation Concern and those identified as priority species by the Utah Partners in Flight (Parrish et al. 2002).

To ensure ground-disturbing activities do not result in the "take" of an active nest or migratory bird protected under the MBTA, we recommend:

- Any ground-disturbing activities or vegetation treatments should be performed before migratory birds begin nesting or after all young have fledged to avoid incidental take.
 Arrival at nesting sites can occur as early as January for certain species. Nesting and fledging can continue through August;
- b. If activities must be scheduled to start during the migratory bird breeding season, take appropriate steps to prevent migratory birds from establishing nests in the potential impact area. These steps could include covering equipment and structures and use of various excluders (e.g., noise). Prior to nesting, birds can be harassed to prevent them from nesting on the site.
- c. If activities must be scheduled during the migratory bird breeding season, a site-specific survey for nesting birds should be performed starting at least two weeks prior to groundbreaking activities or vegetation treatments. Established nests with eggs or young cannot be moved, and the birds cannot be harassed (see b., above), until all young have fledged and are capable of leaving the nest site;
- d. If nesting birds are found during the survey, appropriate spatial buffers should be established around nests. Vegetation treatments or ground-disturbing activities within the buffer areas should be postponed until the birds have left the nest. Confirmation that all young have fledged should be made by a qualified biologist.

For raptors, we recommend use of the *Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances* (Romin and Muck 2002) which were developed in part to provide consistent application of raptor protection measures and provide full compliance with environmental laws regarding raptor protection. Raptor surveys and mitigation measures are provided in the Guidelines as recommendations to ensure that proposed projects will avoid adverse impacts to raptors. Locations of existing raptor nests should be identified prior to the initiation of project activities. Appropriate spatial buffer zones of inactivity should be established during crucial breeding and nesting periods relative to raptor nest sites or territories. Arrival at nesting sites can occur as early as December for certain raptor species. Nesting and fledging can continue through August.

Section 2

Federal agencies have specific additional responsibilities under Section 7 of the Endangered Species Act (ESA). We recommend that you visit our Information, Planning, and Conservation System (http://ecos.fws.gov/ipac/) to determine whether any threatened and endangered species, designated critical habitat, and proposed critical habitat may be affected by your proposed project. If you determine, with our concurrence that the action is not likely to adversely affect listed species or critical habitat, the consultation process is complete, and no further action is necessary.

Ute ladies'-tresses ($Spiranthes\ diluvialis$) is a threatened species under the ESA and may occur within the proposed project area. We recommend that you evaluate the project area for Ute ladies'-tresses habitat and conduct plant surveys where habitat exists. Please reference the U.S.

Fish and Wildlife Service Utah Field office Guidelines for Conducting and Reporting Botanical Inventories and Monitoring of Federally Listed, Proposed and Candidate Plants, dated August 31, 2011, for additional guidance. Three years of surveys is necessary to confirm species absence where habitat exists. We are able to assist you in developing an appropriate survey protocol.

Formal consultation (50 CFR 402.14) with us is required if you determine that an action is "likely to adversely affect" a listed species or will result in jeopardy or adverse modification of critical habitat (50 CFR 402.02). You should also confer with us on any action which is likely to jeopardize the continued existence of any proposed species or result in the destruction or adverse modification of proposed critical habitat (50 CFR 402.10). A written request for formal consultation or conference should be submitted to us with a completed biological assessment and any other relevant information (50 CFR 402.12).

We also direct your attention to section 7(d) of the ESA, as amended, which underscores the requirement that the Federal agency or the applicant shall not make any irreversible or irretrievable commitment of resources during the consultation period which, in effect, would deny the formulation or implementation of reasonable and prudent alternatives regarding their actions on any endangered or threatened species.

Only a Federal agency can enter into formal ESA section 7 consultation with the U.S. Fish and Wildlife Service. A Federal agency may designate a non-Federal representative to conduct informal consultation or prepare a biological assessment by providing written notice of such a designation. The ultimate responsibility for compliance with ESA section 7, however, remains with the Federal agency.

We appreciate the opportunity to provide these comments. For further correspondence, please contact Amy Defreese, Ecologist, at (801) 975-3330 ext. 128 or amy_defreese@fws.gov.

Sincerely,

Larry Crist

Utah Field Supervisor

Cc: UDWR – Central Region (Attn: Terri Pope) – by email EPA – Denver (Attn: Julia McCarthy) – by email

References

Forman, R. T. and L. E. Alexander. 1998. Roads and their major ecological effects. Annu. Rev. Ecol. Syst. 29:207-31.

Parrish, J.R., F.P. Howe, R.E. Norvell. 2002. Utah Partners in Flight Avian Conservation Strategy Version 2.0. Utah Partners in Flight Program, Utah Division of Wildlife Resources, 1594 West North Temple, Salt Lake City, UT 84116, UDWR Publication Number 02-27. i-xiv + 302 pp. [Online version available at http://wildlife.utah.gov/publications/pdf/utah_partners_in_flight.pdf]

Romin, L.A., and J.A. Muck. 2002. U.S. Fish and Wildlife Service. Utah field office guidelines for raptor protection from human and land use disturbances.

Sutter J.V., M.E.. Anderson, K.D. Bunnell, M.F. Canning, A.G. Clark, D.E. Dolsen, and F.P. Howe. 2005. Utah Comprehensive Wildlife Conservation Strategy. Utah Division of Wildlife Resources. Salt Lake City, Utah.

U.S. Fish and Wildlife Service. 2008. Birds of Conservation Concern 2008. United States Department of Interior, Fish and Wildlife Service, Division of Migratory Bird Management, Arlington, Virginia. 85 pp. [Online version available at http://www.fws.gov/migratorybirds]

U.S. Fish and Wildlife Service. 2011. U.S. Fish and Wildlife Service Utah Field Office Guidelines for Conducting and Reporting Botanical Inventories and Monitoring of Federally Listed, Proposed and Candidate Plants.



March 20, 2015

Elizabeth Cramer Area Engineer / Project Manager U.S. Department of Transportation 2520 West 4700 South, STE 9A Salt Lake City, UT 84129

SUBJECT: HAD-UT Response

I-15 Payson Main Street Interchange Environmental Impact Sate UDOT Project No. S-115-6(214)251, PIN 10263

Dear Ms. Cramer,

This letter is in response to your invitation to participate in the environmental impact statement process for the Interstate 15 Payson Main Street interchange. USDA Natural Resources Conservation Service (NRCS) decline to participate in the process for the following reasons:

- NRCS has no jurisdiction or authority with respect to the project;
- NRCS has no expertise or information relevant to the project; and
- NRCS does not intend to submit comments on the project.

If you have any questions or concerns please feel free to contact me.

Sincerely,

DAVID C BROWN USDA NRCS

State Conservationist

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Elizabeth Cramer Area Engineer Federal Highway Administration 2520 West 4700 South, Suite 9A Salt Lake City, Utah 84129

SUBJECT: I-15 Payson Main Street Interchange Environmental Impact Statement Invitation to Become a Participating Agency UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Ms. Cramer,

Thank you for the invitation to be a participating agency on the Payson Main Street environmental impact statement. Given the nexus to our future expansion plans for FrontRunner commuter rail to Payson, the Utah Transit Authority accepts your invitation and we look forward to participating in the environmental review process.

Sincerely

Matthew Sibul

Chief Planning Officer

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March 24, 2015

Ms. Elizabeth Cramer Federal Highway Administration Utah Division 2520 West 4700 South, #9A Salt Lake City, Utah 84129

Re:

I-15 Payson Main Street Interchange Environmental Impact Statement

UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Ms. Cramer:

Payson City is more than willing to participate in the I-15 Payson Main Street Interchange Environmental Impact Statement. This study will shape the way Payson City grows for years to come. It is a very important issue to our mayor and city council.

Payson City therefore accepts the invitation to be a participating agency in this process. Representatives of the city look forward to participating in the environmental review process and staff will be available at the request of your office and/or the UDOT office.

Thank you for the invitation. We look forward to working with you.

Sincerely,

David C. Tuckett Payson City Manager

cc: Mayor & City Council

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FHWA Utah Division

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Fellows, Angie

From: Amy Defreese <amy_defreese@fws.gov>

Sent: Friday, June 12, 2015 1:53 PM

To: Clayton, Andrea

Cc: Naomi Kisen; Fellows, Angie; Markham, Loretta; Betsy Herrmann

Subject: RE: 10263 I-15 Payson Main Street EIS - follow up from meeting this morning

Hi Andrea.

Thank you for your email.

At this time, the Utah Field Office of the U.S. Fish and Wildlife Service would like to be a cooperating agency for the Payson project. We may choose to withdraw from cooperating agency status if impacts to our trust resources are minimized.

Sincerely, Amy Defreese

Amy Defreese, Ecologist
Utah Field Office
U.S. Fish and Wildlife Service
2369 W. Orton Circle, Suite 50
West Valley City, Utah 84119
(801) 975-3330 x 128
amy_defreese@fws.gov

From: Clayton, Andrea [mailto:aclayton@hwlochner.com]

Sent: Monday, June 08, 2015 12:21 PM

To: Amy Defreese

Cc: Naomi Kisen; Fellows, Angie; Markham, Loretta

Subject: 10263 I-15 Payson Main Street EIS - follow up from meeting this morning

Amy,

Thanks for taking time to meet with us this morning.

Follow up on a couple of items:

- I verified with Ivan (traffic lead) that Frontrunner south is included in the 2040 Regional Transportation Plan (RTP) and the travel demand model. The 2040 RTP shows the station at 800 S. It probably does not have a big effect on traffic numbers at the Main St. interchange.
- Attached is the draft agency coordination plan (it was attached to the scoping meeting appointment 3/17/15), we still need to finalize:
 - Cooperating/participating agency status
 - o Review time
 - o Potentially point of contact too

Let me know if you have any questions or comments on the coordination plan.

It sounds like USFWS is leaning towards accepting the invitation to be a cooperating agency (with the caveat that you could pull back efforts if it looks like impacts would be mostly urban). We look forward to your response.

Thanks,

Andrea

Andrea Clayton, P.E.
Project Manager
LOCHNER
1245 E. Brickyard Rd., Suite 400
SLC, UT 84106
Phone: 801.415.5800

www.hwlochner.com



DEPARTMENT OF THE ARMY

U.S. ARMY CORPS OF ENGINEERS, SACRAMENTO DISTRICT 1325 J STREET SACRAMENTO CA 95814-2922 RECEIVED JUN 0 8 2015

FHWA Utah Division

June 5, 2015

Regulatory Division (SPK-2015-00329)

Federal Highway Administration-Utah Division Attn: Elizabeth Cramer 2520 West 4700 South, Suite 9-A Salt Lake City, Utah 84129-3539

Dear Ms. Cramer:

We are responding to your May 28, 2015 request for the U.S. Army Corps of Engineers (Corps) to participate as a cooperating agency under the National Environmental Policy Act (NEPA) for the preparation of an Environmental Impact Statement (EIS) for the Payson Main Street Interchange project. The proposed project is centered on the Interstate 15 Exit 251 in Payson, Section 3, Township 9 South, Range 2 East, Salt Lake Meridian, Latitude 40.0585°, Longitude -111.7192°, Utah County, Utah (enclosure 1).

The Corps' jurisdiction over the proposed project is under the authority of Section 404 of the Clean Water Act. In accordance with Title 40 of the Code of Federal Regulations (CFR) Part 1501.6, the Corps agrees to participate as a cooperating agency in the preparation of the EIS. The Corps' involvement in the EIS process will be limited to those areas within the Corps' statutory authority, including, but not limited to:

- 1. Verify delineations of aquatic resources within the project area;
- 2. Assist in developing the purpose and need statement;
- 3. Assist in developing alternatives sufficient to meet the requirements of the U.S. Environmental Protection Agency's §404(b)(1) Guidelines, in order to ensure that impacts to the aquatic environment are avoided and minimized to the maximum extent practicable;
- 4. Assist in integrating the requirements of NEPA and the §404(b)(1) Guidelines into the EIS;
 - 5. Participate in meetings as resources allow;
- 6. When requested, review and comment on technical studies that pertain to the Corps' regulatory authority;

- 7. Review and comment on portions of the administrative draft/final EIS that pertain to the Corps regulatory authority. The review of all administrative draft/final documents will require a minimum of 30 days; and
- 8. Assist in identifying appropriate and practicable compensatory mitigation for unavoidable impacts to the aquatic environment;

In addition, the Corps acknowledges that the Federal Highway Administration (FHWA) is the lead Federal agency for compliance with Section 7 of the Endangered Species Act (ESA), Section 305(b)(4)(B) of the Magnuson-Stevens Fisheries Conservation and Management Act (MSFCMA), and Section 106 of the National Historic Preservation Act (NHPA). Pursuant to 50 CFR Part 402.07, 50 CFR 600.920(b) and 36 CFR 800.2(a)(2), the Corps designates the FHWA to act on our behalf in any consultations conducted for compliance with ESA, MSFCMA and NHPA. We request that you include the Corps within any consultations conducted for compliance with these laws.

Please refer to identification number SPK-2015-00329-UO in any correspondence concerning this project. If you have any questions, please contact Mike Pectol by telephone, 801-295-8380 ext. 15, by email at *Michael.A.Pectol@usace.army.mil*, or at the Utah Regulatory Office, 533 West 2600 South, Suite 150, Bountiful, Utah 84010.

Sincerely,

Jason A. Gipson

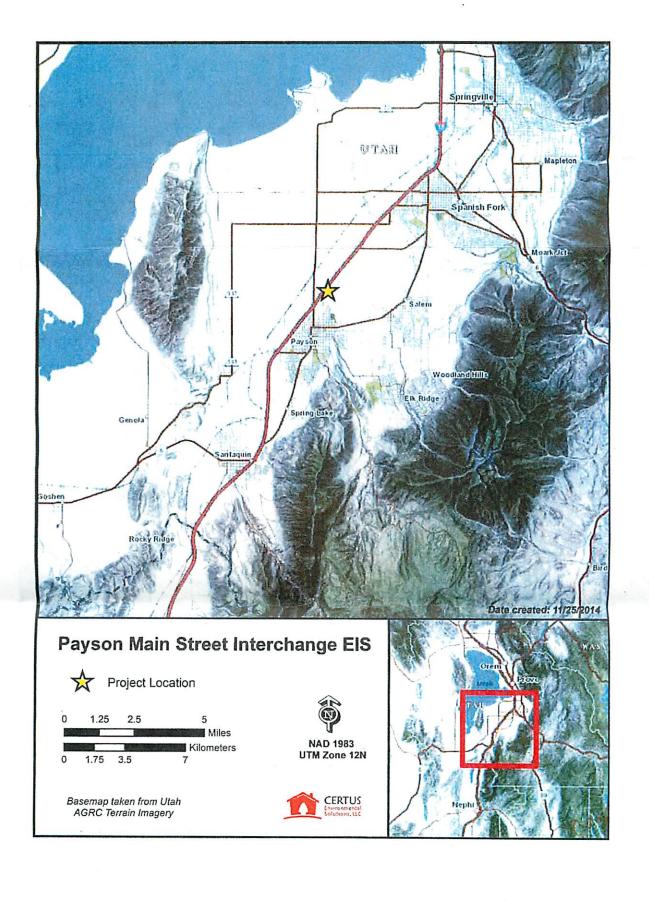
Chief, Utah-Nevada Branch

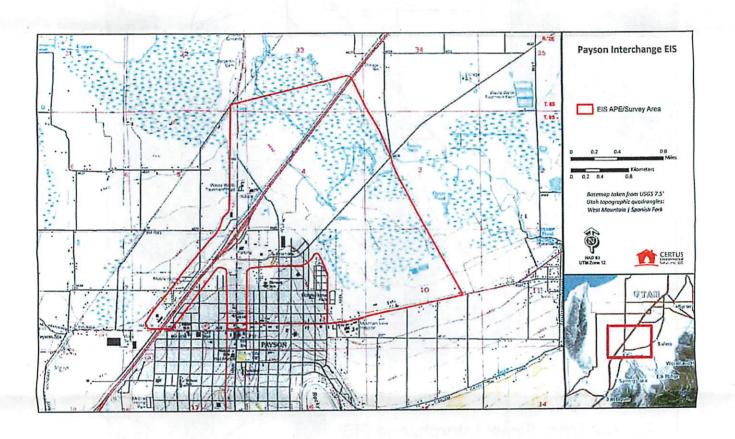
Regulatory Division

Enclosure

cc: (w/o encls)

Brandon West, UDOT-Environmental (<u>brandonwest@utah.gov</u>)
Rich Crosland, UDOT Region 3 (<u>richardcrosland@utah.gov</u>)
Matt Parker, UDOT Project Manager (<u>mattparker@utah.gov</u>)





U.S. Department of Homeland Security Region VIII Denver Federal Center, Building 710 P.O. Box 25267



R8-MT

June 4, 2015

Ms. Elizabeth Cramer Area Engineer, US Department of Transportation 2520 West 4700 South, STE 9-A Salt Lake City, Utah 84129-1874

Re: I-15 Payson Main Street Interchange EIS, Utah County

Dear Ms. Cramer:

Thank you for your inquiry regarding the opportunity to become a participating agency in the review process for the I-15 Payson Main Street Interchange located in Utah County. FEMA's major concern is if the property/area is located within a mapped Special Flood Hazard Area, as development in these area requires further consideration. We are not able to participate in the environmental review process or make staff available at the request of the requesting agency.

We recommend that you contact the local Floodplain Manager, Travis Jockumsen, City Engineer at (801) 465-5235, to receive further guidelines regarding the impact that this project might have relative to the regulations and policies of the National Flood Insurance Program. Considering that floods are the most devastating of all natural disasters in this country, any efforts to reduce the impacts of that hazard is worthwhile.

Let me know if I can be of assistance and please feel free to contact me at (303) 235-4715. Thank you for giving us the opportunity to assist you in the proposed I-15 Payson Main Street Interchange EIS.

Sincerely,

Barbara Fitzpatrick, Senior Speciality

Floodplain Management and Insurance

Mitigation Division

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John String

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Tietze, Johanna

From: David Bird <dgbird@utah.gov>
Sent: Monday, June 08, 2015 3:15 PM
To: Cramer, Elizabeth A (FHWA)

Subject: I-15 Payson Main Street Interchange EIS

Categories: 10263 Payson

Elizabeth,

Pursuant to our telephone conversation earlier today, I am responding to the letter dated May 20, 2015 from the U.S. DOT inviting the Utah Department of Environmental Quality (UDEQ), Division of Environmental Response and Remediation (DERR) to become a participating agency for the above referenced project. At this time, and based on the information received to date, the DERR declines the invitation to be a participating agency. We are not in a position to comment on the scoping or formulation of alternatives for the project. However, when the draft Environmental Impact Statement (EIS) is ready for review, we request that the DERR be included in that review and comment process.

We encourage you to review the DERR interactive map, among other other sources, in the process of preparing the EIS. We also encourage you to communicate with the UDEQ Division of Solid and Hazardous Waste and the UDEQ Division of Water Quality.

It is possible that future construction activities associated with this project will encounter hazardous substances. These materials must be managed and disposed of properly. If impacted materials are encountered during construction, please notify the DERR. I may be contacted at (801) 536-4219. Thank you.

David Bird

Fellows, Angie

From: David Bird <dgbird@utah.gov>
Sent: Monday, June 08, 2015 3:15 PM
To: Cramer, Elizabeth A (FHWA)

Subject: I-15 Payson Main Street Interchange EIS

Categories: 10263 Payson

Elizabeth,

Pursuant to our telephone conversation earlier today, I am responding to the letter dated May 20, 2015 from the U.S. DOT inviting the Utah Department of Environmental Quality (UDEQ), Division of Environmental Response and Remediation (DERR) to become a participating agency for the above referenced project. At this time, and based on the information received to date, the DERR declines the invitation to be a participating agency. We are not in a position to comment on the scoping or formulation of alternatives for the project. However, when the draft Environmental Impact Statement (EIS) is ready for review, we request that the DERR be included in that review and comment process.

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David Bird



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY **REGION 8**

1595 Wynkoop Street Denver, CO 80202-1129 Phone 800-227-8917 www.epa.gov/region08

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FHWA Utah Division

Ref: 8EPR-N

Ms. Elizabeth Cramer, Area Engineer U.S. Department of Transportation Federal Highway Administration 2520 West 4700 South, STE 9-A Salt Lake City, UT 84129-1874

> Re: I-15 Payson Main Street Interchange Environmental Impact Statement: Invitation to Become a Cooperating Agency

Dear Ms. Cramer:

cc:

This letter is in response to your May 20, 2015, letter to Shaun McGrath requesting that the Region 8 EPA revisit the decision to become a cooperating agency for the I-15 Payson Main Street Interchange Environmental Impact Statement (EIS) and Project.

We learned from the last conference call that one of the alternatives, relocating the existing interchange to the north, could potentially impact undeveloped lands and up to 20 acres of wetlands. Since the EPA has special jurisdiction and expertise with respect to wetlands, we do agree that increased involvement at the early stages of this project is warranted, especially with regard to wetland issues. We think a cooperating agency level of involvement may not be necessary and will commit to participating agency status. As a participating agency, the EPA will make every effort to participate in the early scoping and environmental review process leading up to a Draft EIS, including attendance at conference call meetings. Further, we may provide specific expertise advice and comment on wetlands issues that arise.

We look forward to working with you as a participating agency. If you have any questions, please feel free to contact me at (303)-312-6704, or contact Robin Coursen of my staff at (303)-312-6695.

Sincerely,

David Funcyah Philip S. Strobel

Acting Director, NEPA Compliance and Review Program

Office of Ecosystems Protection and Remediation

Brandon Weston, UDOT-Environmental Rich Crosland, UDOT-Region 3 Matt Parker, Project Manager - UDOT



IN REPLY REFER TO: Division of Transportation MS-370

United States Department of the Interior

BUREAU OF INDIAN AFFAIRS WESTERN REGIONAL OFFICE 2600 North Central Avenue Phoenix, Arizona 85004



JUL 0 8 2015

Ms. Elizabeth Cramer, Area Engineer Federal Highway Administration – Utah Division 2520 West 4700 South, Suite 9-A Salt Lake City, Utah 84129-1874

Dear Ms. Cramer:

Thank you for your letter dated May 20, 2015, inviting our participation as a Cooperating Agency for the purposes of preparing an Environmental Impact Statement (EIS) for the proposed I-15 Payson Main Street Interchange project. The Bureau of Indian Affairs (BIA), Western Region, respectfully declines your invitation to be a participating agency for the subject EIS.

The BIA Western Region has determined that our agency has no jurisdiction or authority with respect to the project; no expertise or information relevant to the project; and does not intend to submit comments on the project. The BIA does, however, recommend that the Federal Highway Administration consult with potentially affected tribes.

Should the scope of the project change or if we can be of assistance in any way, please contact Mr. Chip Lewis or Mr. Gary Cantley, of my staff, at (602) 379-6750.

Sincerely,

Regional Director



United States Department of the Interior

BUREAU OF BUDEAU AFFAIRS WESTERN REGIONAL OFFICE 2600 North Central Assemic Phoenix, Arizons, 35004

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JUL 082015

Nis, Elizabeth Cramer, Area Engineer Federal Highway Administration - Utah Division 2520 West 4700 South, Suite 9-A Salt Lake City, Utah 84129-1874

Ωear Ms. Cramér.

Thank you for your letter dated May 20, 2015, inviting our particlearion as a Cooperating Agency for the purposes of preparing an Environmental Impact Statement (EIS) for the proposed 1-15 Payson Main Street Interchange project. The Bureau of Indian Affairs (BIA), Wessern Region, respectfully declines your invitation to be a participating spency for the subject EIS.

The BIA Western Region has determined that our agency has no jurisdiction or authority with respect to the project no expentise or information relevant to the project and does not intend to submit comments on the project. The BIA does, however recommend that the Plankey Highway Administration consult with potentially affected tribes.

Should the scope of the project change or if we can be of assistance in any way, please contact this Uhip Lewis or Mr. Gary Cantley, of my staff, at (802) 379-6750.

Sincereiv.

Regional Director



July 15, 2015

Ms. Elizabeth Cramer Area Engineer/Project Manager Federal Highway Administration 2520 West 4700 South, STE 9A Salt Lake City, Utah 84129

Ref: I-15 Payson Main Street Interchange Environmental Impact Statement, Invitation to become a Cooperating Agency, UDOT Project No. S-I15-6(214)251, PIN 10263

Dear Ms. Cramer:

On March 12, 2015 the Advisory Council on Historic Preservation (ACHP) received the Federal Highway Administration's (FHWA's) initial invitation to become a cooperating agency for the above mentioned project. We then received a follow-up letter on May 27th, 2015, requesting our response to the initial invitation to become a cooperating agency. We apologize for the delay in responding. The ACHP accepts your invitation to become a cooperating agency. However, we do not at this time anticipate attending meetings or providing formal comments at environmental review milestones. We would appreciate your keeping us informed of progress, as we may decide to become more actively involved in the future, as warranted. We would also be pleased to provide FHWA with technical assistance related to historic preservation and Section 106 of the National Historic Preservation Act as you fulfill your compliance responsibilities.

In addition, the ACHP encourages FHWA to coordinate the Section 106 process with the National Environmental Policy Act (NEPA) compliance by notifying, at your earliest convenience, the appropriate State Historic Preservation Officer (SHPO) and/or Tribal Historic Preservation Officer (THPO), Indian tribes, and other consulting parties pursuant to our regulations, "Protection of Historic Properties" (36 CFR Part 800). Through early consultation, your agency will be able to determine the appropriate strategy to ensure Section 106 compliance is completed in a timely manner for this undertaking.

Likewise, FHWA should continue consultation with the appropriate SHPO/THPO, Indian tribes, and other consulting parties to identify and evaluate historic properties and to assess any potential adverse effects on those historic properties. If your agency determines through consultation with the consulting parties that the undertaking will adversely affect historic properties or that the development of a programmatic agreement is necessary, the agency must notify the ACHP and provide the documentation detailed at 36 CFR §800.11(e).

Thank you for inviting our participation in the development of this project. Should you have any questions as to how your agency should comply with the requirements of Section 106, please contact Meghan Hesse at (202) 517-0214 or via e-mail at mhesse@achp.gov

Sincerely,

Charlene Dwin Vaughn, AICP

Assistant Director

Office of Federal Agency Programs

Federal Permitting, Licensing, and Assistance Section

Tharlene Dwin Carole

Fellows, Angie

From: elizabeth.cramer@dot.gov

Sent: Tuesday, March 17, 2015 8:57 AM

To: Fellows, Angie

Cc: Markham, Loretta; mattparker@utah.gov

Subject: FW: Invitation to Attend Agency Scoping Meeting for I-15, Payson Main St. EIS

FYI

Liz Cramer

Bridge Engineer Area Engineer, UDOT Region 3

Federal Highway Administration - Utah Division 2520 W 4700 S Suite 9A Salt Lake City, UT 84129 (801) 955-3527 elizabeth.cramer@dot.gov

From: Teresa Wilhelmsen [mailto:teresawilhelmsen@utah.gov]

Sent: Tuesday, March 17, 2015 8:55 AM

To: Cramer, Elizabeth A (FHWA)

Subject: Invitation to Attend Agency Scoping Meeting for I-15, Payson Main St. EIS

Elizabeth -

Per our phone conversation this morning and your description of the proposed project, I don't see that our agency needs to be a participating agency in this initial process. If you have any specific water right, or stream alteration questions, please contact our office.

--

Teresa Wilhelmsen, P.E. Regional Engineer - Utah Lake / Jordan River Region

Department of Natural Resources Division of Water Rights 1594 West North Temple, Suite 220 PO Box 146300 Salt Lake City, Utah 84114-6300 www.waterrights.utah.gov

801-537-3119 office 801-538-7467 fax teresawilhelmsen@utah.gov

To the world you may be just one person, but to just one dog you may be the world!

Peterson, Justin

From: elizabeth.cramer@dot.gov

Sent: Wednesday, March 11, 2015 1:59 PM

To: Fellows, Angie

Cc: Markham, Loretta; mattparker@utah.gov

Subject: FW: Declining participation in the Payson I-15 / Main Street interchange EIS

FYI

Liz Cramer

Bridge Engineer Area Engineer, UDOT Region 3

Federal Highway Administration - Utah Division 2520 W 4700 S Suite 9A Salt Lake City, UT 84129 (801) 955-3527 elizabeth.cramer@dot.gov

From: Bill James [mailto:billjames@utah.gov] Sent: Wednesday, March 11, 2015 1:57 PM

To: Cramer, Elizabeth A (FHWA) Cc: Marrero, Ivan (FHWA)

Subject: Declining participation in the Payson I-15 / Main Street interchange EIS

Ms. Cramer,

The Utah Division of Wildlife Resources chooses not to become a "participating agency" in the preparation of the Payson / I-15 Interchange EIS. Thank you nonetheless for the opportunity.

Bill James Wildlife Program Coordinator Utah Division of Wildlife Resources P.O. Box 146301 Salt Lake City, UT 84114-6301 (801) 538-4752 office



Utah Division

March 2, 2015

2520 West 4700 South Salt Lake City, UT 84129 (801)955-3500 (801) 955-3539

> In Reply Refer To: HDA-UT

Ms. Irene Cuch, Chairperson Uintah & Ouray Ute Indian Reservation P.O. Box 190 Fort Duchesne, UT 84062

Subject: Notification of Project and Invitation to become a Consulting Party for the I-15;

Payson Interchange Environmental Impact Statement, Utah County, Utah.

UDOT Project No.S-I15-6(214)251:

Dear Ms. Cuch,

The Federal Highway Administration (FHWA), in cooperation with the Utah Department of Transportation (UDOT), are initiating an Environmental Impact Statement (EIS) to evaluate improvements to the Interstate 15 (I-15) interchange at Main Street in Payson, Utah County. The study area for the EIS centers on I-15 Exit 251 in Payson. The western boundary generally follows the railroad tracks west of I-15 and 3550 West. The southern boundary parallels State Route (SR) 198, and the eastern boundary follows a northwest line across agricultural fields for approximately 2.3 miles until it crosses I-15. The northern boundary continues east along 1500 North before terminating west of Dixon Road along SR-115 (3200 West/Main Street). (see enclosed Project Location Map).

In accordance with the National Environmental Policy Act (NEPA) and Section 106 of the National Historic Preservation Act (NHPA), the FHWA and the UDOT would like to initiate consultation with your Tribe regarding this project. At this time, we request your assistance in identifying any historic properties of traditional religious and/or cultural importance that may be affected by the proposed undertaking, as well as any concerns that you may have regarding the proposed project. We consider your input into the project to be important and would appreciate your participation as a consulting party during the development of the environmental document.

Please be assured that, in accordance with confidentiality and disclosure stipulations in Section 304 of the NHPA, the FHWA and the UDOT will maintain strict confidentiality about certain types of information regarding traditional religious and/or cultural places that may be affected by this proposed undertaking. At your request, the FHWA and the UDOT staff will be available to meet with you to discuss any concerns you might have about the project. We would also appreciate any suggestions you might have about other groups or individuals that we should contact regarding this project or ways that we may more effectively consult with you.

Should you have any questions or concerns about this project, information regarding sensitive resources, and/or wish to be a consulting party, please contact me at 801-955-3527 or at Elizabeth.cramer@dot.gov, or contact Rich Allen at 801-709-9694 or richallen@utah.gov. To facilitate our consultation with your Tribe, we would greatly appreciate a response to this letter within 30 days of receipt.

Thank you for your attention to this project notification and any comments you may have.

Sincerely yours,

DAVID COX

FOR

Elizabeth Cramer Area Engineer

Enclosure(s):

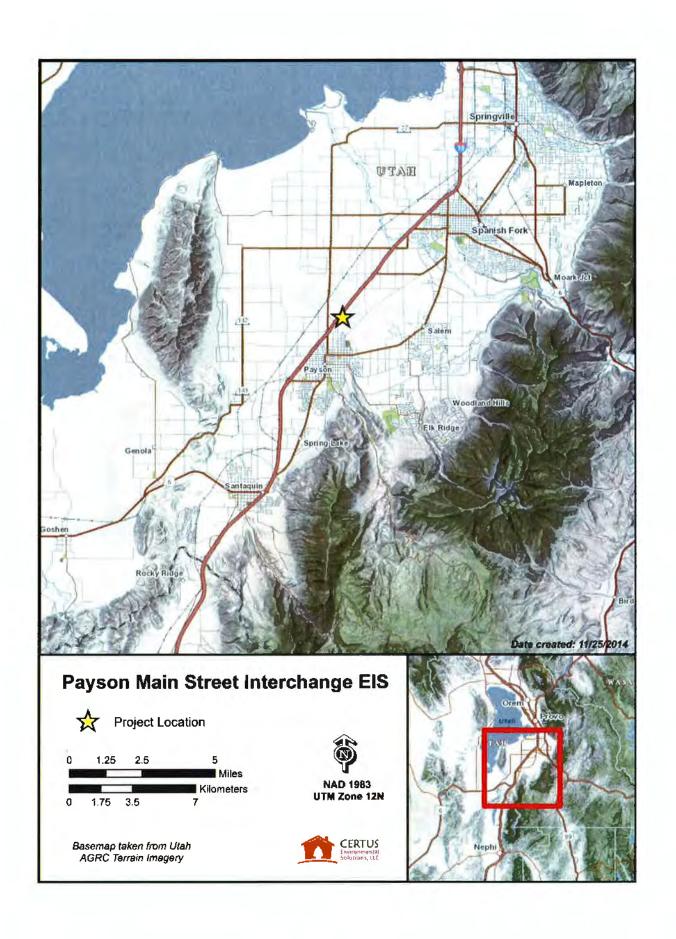
Project Maps

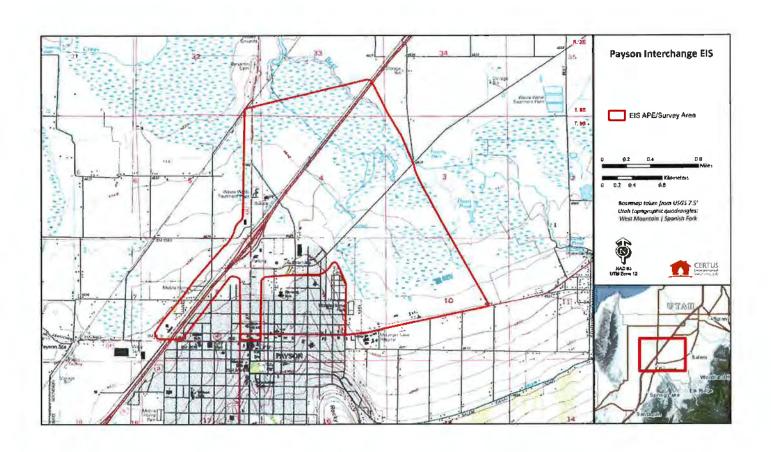
cc: Betsy Chapoose, Director

ECramer:dm

Original to:	CC to:
Mr. Nathan Small, Chair Shoshone-Bannock Tribes of the Fort Hall	Ms. Carolyn Smith, HETO Cultural Resources Coordinator
Reservation	Shoshone-Bannock Tribes of the Fort Hall
P.O. Box 306 Pima Drive	Reservation
Fort Hall, Idaho 83203	P.O. Box 306 Pima Drive
	Fort Hall, Idaho 83203
Mr. Jason Walker, Chairman	Ms. Patti Timbimboo-Madsen, Cultural
Northwestern Band of the Shoshone Nation	Resources Specialist
707 North Main Street	Northwestern Band of the Shoshone Nation
Brigham City, UT 84302	707 North Main Street
	Brigham City, UT 84302
Mr. Darwin St. Clair Jr., Chairman	Mr. Wilfred Ferris, THPO
Eastern Shoshone Tribe of the Wind River	Eastern Shoshone Tribe of the Wind River
Reservation	Reservation
P.O. Box 538/15 North Fork Road	P.O. Box 538/15 North Fork Road
Fort Washakie, WY 82514	Fort Washakie, WY 82514
	Ms. Glenda Trosper, Director
	Cultural Center
	Eastern Shoshone Tribe of the Wind River
	Reservation
	P.O. Box 538/15 North Fork Road
	Fort Washakie, WY 82514
Ms. Lori Bear Skiby, Chairperson	
Skull Valley Band of Goshute Indians	
P.O. Box 448	
Grantsville, UT 84029	
Ms. Irene Cuch, Chairperson	Ms. Betsy Chapoose, Director
Uintah and Ouray Ute Indian Reservation	Cultural Rights & Protection
P.O. Box 190	Uintah and Ouray Ute Indian Reservation
Fort Duchesne, UT 84062	P.O. Box 190
	Fort Duchesne, UT 84062
Ms. Gari Lafferty, Tribal Chairwoman	Ms. Dorena Martineau, Cultural Resources
Paiute Indian Tribe of Utah	Manager
440 North Paiute Drive	Paiute Indian Tribe of Utah
Cedar City, UT 84720	440 North Paiute Drive
Cedar City, 01 04720	Cedar City, UT 84720
	Octual Oily, OT OTIZO
Ms. Lora Tom, Band Chairwoman	Ms. Eleanor Tom
Cedar Band of the Paiute Indians	Cedar Band of the Paiute Indians
4655 North Utah Trail	
	4562 N. Wagonwheel Dr.
Enoch, UT 84720	Cedar City, Utah 84721
Ms. Jetta Wood, Band Chairwoman	Ms. Shanan Anderson, Cultural Resource
Shivwits Band of Paiute Indian Tribe of Utah	Director
6060 West 3650 North	Shivwits Band of Paiute Indian Tribe of Utah
Ivins, UT 84738	6060 West 3650 North
	Ivins, UT 84738









State of Utah

GARY R. HERBERT Governor

SPENCER J. COX Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director
SHANE M. MARSHALL, P.E. Deputy Director

August 31, 2015

Mr. Dale Barnett
Peteetneet Museum and Cultural Arts Center
P.O. Box 603
10 N. 600 E.
Payson, Utah 84651

RE: Project No. S-I15-6(214), I-15, Payson Main Street Interchange (UDOT PIN 10263)

Dear Mr. Barnett:

The Federal Highway Administration (FHWA) and the Utah Department of Transportation (UDOT) are conducting an environmental study to improve the I-15 Exit 250 interchange at Payson Main Street. Various transportation and planning studies indicate that the existing transportation infrastructure will not support the population growth of Payson and its environs. Additionally, the existing design deficiencies compromise vehicle safety and limit the overall functionality of the interchange. The intent of the environmental study is thus to examine alternatives that will improve the design of the interchange and accommodate future traffic demand. The engineering firm of H.W. Lochner is preparing the environmental study under the direction of FHWA and UDOT.

As part of the environmental review, the cultural resources firm of Certus Environmental Solutions, LLC, represented by Sheri Ellis, conducted a historic architecture survey to determine the location and number of resources that could potentially be impacted by the alternatives under study. In accordance with the regulations (36 CFR Part 800) for implementing Section 106 of the National Historic Preservation Act (NHPA), I am writing to let you know that the survey is available for your review and to request that you notify us with concerns you might have regarding historic sites in the project area, a map of which is attached. An archaeological survey will be completed at a later date, and information from that survey will be available for your consideration at that time.

Ms. Ellis' historic architecture report identifies 155 buildings, 86 of which are considered eligible for the National Register of Historic Places (NRHP), or have already been listed

individually or are included in the Payson Historic District. Those resources deemed eligible but not yet listed meet the criteria of the NRHP by being at least 45 years old and exhibiting sufficient physical character to impart their historic or architectural association with the development of Payson. Because UDOT and FHWA are continuing to explore options for the improvements to the interchange, UDOT has not yet determined what effect the project may have on eligible or listed architectural properties.

I am sending a similar letter to residents involved in the preservation of Payson's history, including Karl Teemant, L. Dee Stevenson, Cynthia Peacock and Brian Hulet. If you know of other citizens who I should contact, please forward their names to me. At your request, members of the project team will be available to meet with you to discuss any concerns and suggestions you may have to avert or minimize the effect of the alternatives under consideration on historic resources in the project area.

Please feel free to contact me at (801) 633-8484, or via email at <u>egiraud@utah.gov</u>, if you have any questions or if you would like to set up a meeting to discuss the project.

I appreciate your attention to this project notification and any comments you may have.

Sincerely,

Elizabeth Giraud, AICP

Architectural Historian, Utah Department of Transportation

- Sicand

Enclosure

CC:

Matt Parker, Project Manager, UDOT Region 3 Loretta Markham, Project Manager, H.W. Lochner Liz Robinson, UDOT Cultural Resources Manager Rich Allen, UDOT Region 3 NEPA/NHPA Specialist Sheri Ellis, Certus Environmental Solutions, LLC



State of Utah

GARY R. HERBERT Governor

SPENCER J. COX

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director
SHANE M. MARSHALL, P.E. Deputy Director

August 31, 2015

Mr. Brian Hulet Payson Certified Local Government 4214 W. 12000 S. Payson, Utah 84651

RE: Project No. S-I15-6(214), I-15, Payson Main Street Interchange (UDOT PIN 10263)

Dear Mr. Hulet:

The Federal Highway Administration (FHWA) and the Utah Department of Transportation (UDOT) are conducting an environmental study to improve the I-15 Exit 250 interchange at Payson Main Street. Various transportation and planning studies indicate that the existing transportation infrastructure will not support the population growth of Payson and its environs. Additionally, the existing design deficiencies of the interchange compromise vehicle safety and limit its overall functionality. The intent of the environmental study is thus to examine alternatives that will improve the design of the interchange and accommodate future traffic demand. The engineering firm of H.W. Lochner is preparing the environmental study under the direction of FHWA and UDOT.

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I am sending a similar letter to residents involved in the preservation of Payson's history, including Dale Barnett, L. Dee Stevenson, Cynthia Peacock and Karl Teemant. If you know of other citizens who I should contact, please forward their names to me. At your request, members of the project team will be available to meet with you to discuss any concerns and suggestions you may have to avert or minimize the effect of the alternatives under consideration on historic resources in the project area.

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I appreciate your attention to this project notification and any comments you may have.

Sincerely,

Elizabeth Giraud, AICP

Geralah Birand

Architectural Historian, Utah Department of Transportation

Enclosure

CC:

Matt Parker, Project Manager, UDOT Region 3 Loretta Markham, Project Manager, H.W. Lochner Liz Robinson, UDOT Cultural Resources Manager Rich Allen, UDOT Region 3 NEPA/NHPA Specialist Sheri Ellis, Certus Environmental Solutions, LLC



State of Utah

GARY R. HERBERT Governor

SPENCER J. COX Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director
SHANE M. MARSHALL, P.E. Deputy Director

August 31, 2015

Ms. Cynthia Peacock
Daughters of the Utah Pioneers – Utah County Chapter
5011 W. 12400 S.
Payson, Utah 84651

RE: Project No. S-I15-6(214), I-15, Payson Main Street Interchange (UDOT PIN 10263)

Dear Ms Peacock:

The Federal Highway Administration (FHWA) and the Utah Department of Transportation (UDOT) are conducting an environmental study to improve the I-15 Exit 250 interchange at Payson Main Street. Various transportation and planning studies indicate that the existing transportation infrastructure will not support the population growth of Payson and its environs. Additionally, the existing design deficiencies compromise vehicle safety and limit the overall functionality of the interchange. The intent of the environmental study is thus to examine alternatives that will improve the design of the interchange and accommodate future traffic demand. The engineering firm of H.W. Lochner is preparing the environmental study under the direction of FHWA and UDOT.

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I appreciate your attention to this project notification and any comments you may have.

Sincerely,

Elizabeth Giraud, AICP

Architectural Historian, Utah Department of Transportation

Enclosure

CC: Matt Parker, Project Manager, UDOT Region 3

Wizabeth Siraud

Loretta Markham, Project Manager, H.W. Lochner Liz Robinson, UDOT Cultural Resources Manager Rich Allen, UDOT Region 3 NEPA/NHPA Specialist

Sheri Ellis, Certus Environmental Solutions, LLC



State of Utah

GARY R. HERBERT

SPENCER J. COX Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director
SHANE M. MARSHALL, P.E. Deputy Director

August 31, 2015

Mr. L. Dee Stevenson
Payson Historical Society
c/o Peteetneet Museum and Cultural Arts Center
P.O. Box 603
10 N. 600 E.
Payson, Utah 84651

RE: Project No. S-I15-6(214), I-15, Payson Main Street Interchange (UDOT PIN 10263)

Dear Mr. Stevenson:

The Federal Highway Administration (FHWA) and the Utah Department of Transportation (UDOT) are conducting an environmental study to improve the I-15 Exit 250 interchange at Payson Main Street. Various transportation and planning studies indicate that the existing transportation infrastructure will not support the population growth of Payson and its environs. Additionally, the existing design deficiencies compromise vehicle safety and limit the overall functionality of the interchange. The intent of the environmental study is thus to examine alternatives that will improve the design of the interchange and accommodate future traffic demand. The engineering firm of H.W. Lochner is preparing the environmental study under the direction of FHWA and UDOT.

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I appreciate your attention to this project notification and any comments you may have.

Sincerely,

Elizaboth Giraud, AICP

Architectural Historian, Utah Department of Transportation

Enclosure

CC:

Matt Parker, Project Manager, UDOT Region 3 Loretta Markham, Project Manager, H.W. Lochner Liz Robinson, UDOT Cultural Resources Manager Rich Allen, UDOT Region 3 NEPA/NHPA Specialist Sheri Ellis, Certus Environmental Solutions, LLC



State of Utah

GARY R. HERBERT Governor

SPENCER J. COX
Lieutenant Governor

DEPARTMENT OF TRANSPORTATION

CARLOS M. BRACERAS, P.E. Executive Director

SHANE M. MARSHALL, P.E. Deputy Director

August 31, 2015

Mr. Karl Teemant Payson Certified Local Government 439 W. Utah Ave. Payson, Utah 84651

RE: Project No. S-I15-6(214), I-15, Payson Main Street Interchange (UDOT PIN 10263)

Dear Mr. Teemant:

The Federal Highway Administration (FHWA) and the Utah Department of Transportation (UDOT) are conducting an environmental study to improve the I-15 Exit 250 interchange at Payson Main Street. Various transportation and planning studies indicate that the existing transportation infrastructure will not support the population growth of Payson and its environs. Additionally, the existing design deficiencies compromise vehicle safety and limit the overall functionality of the interchange. The intent of the environmental study is thus to examine alternatives that will improve the design of the interchange and accommodate future traffic demand. The engineering firm of H.W. Lochner is preparing the environmental study under the direction of FHWA and UDOT.

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I appreciate your attention to this project notification and any comments you may have.

Wizhbell Hrand

Elizabeth Giraud, AICP

Architectural Historian, Utah Department of Transportation

Enclosure

CC:

Matt Parker, Project Manager, UDOT Region 3 Loretta Markham, Project Manager, H.W. Lochner Liz Robinson, UDOT Cultural Resources Manager Rich Allen, UDOT Region 3 NEPA/NHPA Specialist Sheri Ellis, Certus Environmental Solutions, LLC

APPENDIX B

TECHNICAL REPORTS

The following technical reports have been prepared to support the I-15, Payson Main Street Interchange Environmental Impact Statement (EIS).

Technical Report Title	Prepared By	Contact
An Archeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah	Certus Environmental Solutions, LLC Sheri Murray Ellis, MS RPA	Sheri Murray Ellis, MS RPA 655 7th Ave Salt Lake City, UT 84103
An Addendum to: An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah Final	Certus Environmental Solutions, LLC Sheri Murray Ellis, MS RPA	Sheri Murray Ellis, MS RPA 655 7th Ave Salt Lake City, UT 84104
Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah	Certus Environmental Solutions, LLC Sheri Murray Ellis, MS RPA	Sheri Murray Ellis, MS RPA 655 7th Ave Salt Lake City, UT 84104
Addendum to: Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah Final	Certus Environmental Solutions, LLC Sheri Murray Ellis, MS RPA	Sheri Murray Ellis, MS RPA 655 7th Ave Salt Lake City, UT 84104
Wetland and Waters of the U.S. Delineation I-15 Payson Main Street Interchange EIS	Wetland Resources Todd Sherman	Todd Sherman 182 East 300 North Logan, UT 84321
Air Quality Assessment I-15, Payson Main Street Interchange EIS	Lochner Dave Shannon, PE	Dave Shannon, PE Lochner 225 West Washington Street Chicago, IL 60606
Project of Air Quality Concern Determination I-15, Payson Main Street Interchange EIS	Lochner Dave Shannon, PE	Dave Shannon, PE Lochner 225 West Washington Street Chicago, IL 60606

Technical Report Title	Prepared By	Contact
Noise Assessment I-15, Payson Main Street Interchange EIS	Lochner Dave Shannon, PE	Dave Shannon, PE 225 West Washington Street Chicago, IL 60606
Economic Impact Technical Report I-15, Payson Main Street Interchange EIS	Leland Consulting Group Ted Kamp Chris Zahas	Ted Kamp, AICP 610 SW Alder Street # 1008 Portland, OR 97205
Wildlife Inventory Report I-15 Payson Main Street Interchange EIS	InterWest Wildlife Glen Gantz	Glen Gantz 11255 North 2000 East Richmond, UT 84333
Sprianthes diluvialis Survey I-15 Payson Main Street Interchange EIS	Wetland Resources Todd Sherman	Todd Sherman 182 East 300 North Logan, UT 84321
I-15 Payson Main Street Interchange Biological Assessment (including Not Likely to Adversely Affect Determination)	Lochner Justin Peterson, AICP	Justin Peterson, AICP 3995 South 700 East, Ste 450 Salt Lake City, UT 84107
Traffic Report I-15, Payson Main Street Interchange EIS	Avenue Consultants Ivan Hooper, PE Bill Hereth, PE	Ivan Hooper, PE 6575 S Redwood Rd., Ste 101 Taylorsville, UT 84123
Bamberger Ranch Sensitivity Analysis	Avenue Consultants Ivan Hooper, PE Bill Hereth, PE	Ivan Hooper, PE 6575 \$ Redwood Rd., \$te 101 Taylorsville, UT 84123

APPENDIX B

TECHNICAL REPORTS

AN ARCHEOLOGICAL ASSESSMENT FOR THE INTERSTATE 15 PAYSON MAIN STREET INTERCHANGE ENVIRONMENTAL IMPACT STATEMENT, UTAH COUNTY, UTAH

An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah FINAL

UDOT Project No. F-I15-6(214)251; PIN 10263

Prepared for

The Utah Department of Transportation and H.W. Lochner, Inc.

Prepared by

Sheri Murray Ellis, MS, RPA Owner / Consultant



Certus Environmental Solutions, LLC Salt Lake City, Utah 801.230.7260

Utah Antiquities Project No. U14HY1270ps PLPCO Permit No. 47

Certus Project Number LOCH08

July 8, 2016

PROJECT ABSTRACT SHEET

Report Title: An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project Number and Name: F-I15-6(214)251; Payson Interchange EIS; PIN 10263

Utah State Project Number: U14HY1270ps

Project Description: The Utah Department of Transportation (UDOT) is considering improvements to Interstate 15 interchange at Main Street in Payson, Utah. These improvements may include changes to the existing interchange configuration or relocation of the interchange. The UDOT is preparing an EIS to evaluate alternatives for the interchange improvements.

Area of Potential Effects: The area of potential effects (APE) for the archaeological assessment was established as a large, irregularly shaped polygon surrounding the combined area of four build alternatives being considered in the EIS. The area includes the anticipated footprints of each of the four alternatives plus a 91-meter (300-foot) buffer around those footprints. This APE, which contains approximately 325 hectares (803 acres), includes those areas where physical ground disturbance, property acquisition, and proximal visual impacts may occur. The survey area is equal to the APE.

Agencies: Utah Department of Transportation; Payson City; U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service, Federal Highway Administration

Location: Payson City, Utah County

Land Ownership: Private, UDOT, Municipal

Date(s) of Fieldwork: June 12-19, 2016

Methods: Intensive-level and reconnaissance-level archaeological survey

Acres Surveyed – Intensive: 209 hectares (515 acres)

Acres Surveyed – Reconnaissance: 128 hectares (315 acres)

Archaeological Resources in the APE: 11 (42UT000935/42UT001331, 42UT001029, 42UT001101,

42UT001721, 42UT001722, 42UT001942, 42UT001943, 42UT001944, 42UT001945, 42UT001946, 42UT001947)

NRHP Eligible Resources: 7 (42UT000935/42UT001331, 42UT001029, 42UT001194, 42UT001722,

42UT001943, 42UT001945, 42UT001946)

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Introduction

The Utah Department of Transportation (UDOT), in conjunction with the Federal Highway Administration (FHWA) is evaluating potential improvements to the Interstate 15 interchange at Main Street in Payson, Utah (**Figure 1**). The improvements may include changes to the existing interchange and/or construction of a new interchange at a different location. Alternatives to address the project purpose and need are being evaluated in an environmental impact statement (EIS). The project is hereafter referred to as the Interchange Project or the I-15 Payson Main Street Interchange Project.

H.W. Lochner, Inc. (Lochner) is assisting UDOT with environmental studies for the Interchange Project. Lochner contracted with Certus Environmental Solutions, LLC (Certus) to conduct an assessment of cultural resources in the area of potential effects for the proposed project. Both archaeological and architectural/structural assessments will be completed. The results of the architectural/structural inventory are reported under separate cover (Ellis 2015).

Sheri Murray Ellis, Principal Investigator for Certus under State of Utah Principal Investigator Permit No. 47, conducted archaeological fieldwork for the project June 12-19, 2016. All work was carried out under Utah State Antiquities Project No. U14HY1270ps.

THE AREA OF POTENTIAL EFFECTS AND SURVEY AREA

The project area is located in the community of Payson in Utah County, Utah (see **Figure 1**). Implementation of the project, whether reconstruction of the existing interchange or construction of a new interchange, would require ground disturbance at least several feet deep and would necessitate acquisition of new right-of-way as well as temporary construction easements.

The area of potential effects (APE) for the archaeological assessment was defined as a large irregularly shaped polygon surrounding the combined area of four build alternatives being considered in the EIS (see **Figures 2 and 3**). The area includes the anticipated footprints of each of the four alternatives plus a 91-meter (300-foot) buffer around those footprints. This APE, which contains approximately 325 hectares (803 acres), includes those areas where physical ground disturbance, property acquisition, and proximal visual impacts may occur. The survey area is equal to the APE.

The APE/survey area is located in Township 8 South, Range 2 East, Sections 32-34 and Township 9 South, Range 2 East, Sections 4, 5, and 8-10 on USGS 7.5' topographic quadrangles West Mountain, Utah and Spanish Fork, Utah (see **Figures 2 and 3**). Lands on which the undertaking would occur are owned by Payson City, UDOT, and private parties.

PROJECT SETTING

The APE/survey area encompasses portions of both the developed core area of Payson and the rural agricultural lands surrounding the community. Lands in the northern and eastern portions of the APE/survey area are almost exclusively undeveloped, comprising open agricultural fields (both active and fallow), grazing pastures, and scattered historical and modern farmsteads. The southern

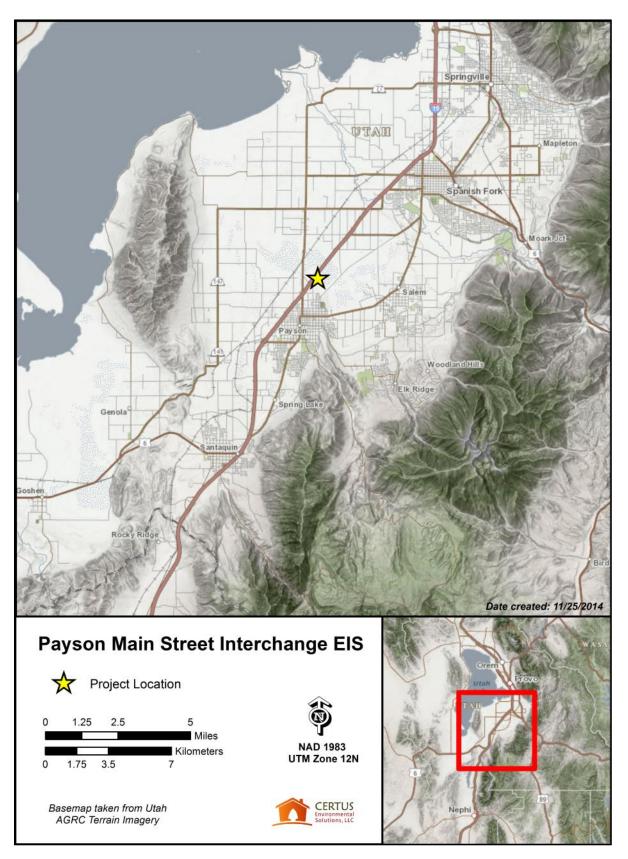


Figure 1. General project location; I-15 Payson Main Street Interchange Project

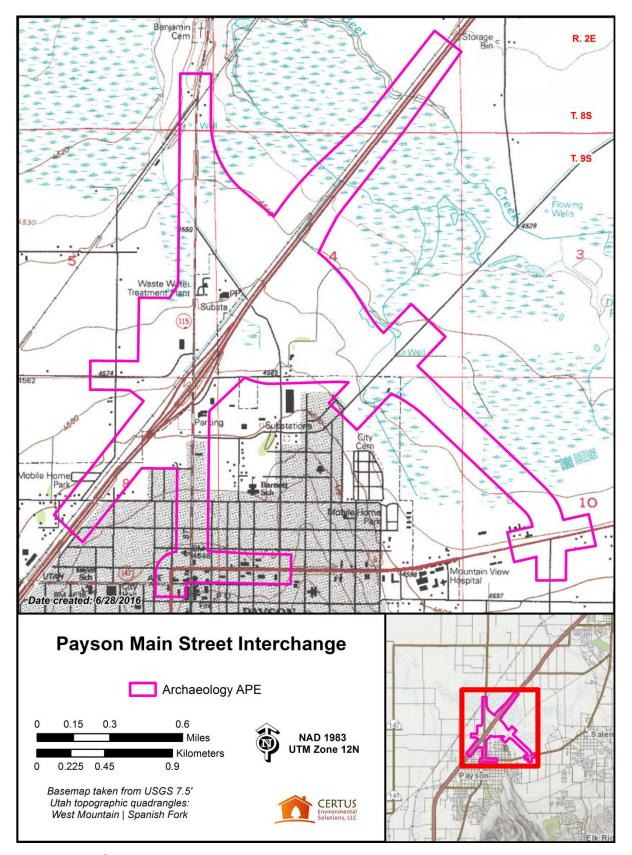


Figure 2. APE/Survey Area; I-15 Payson Main Street Interchange Project

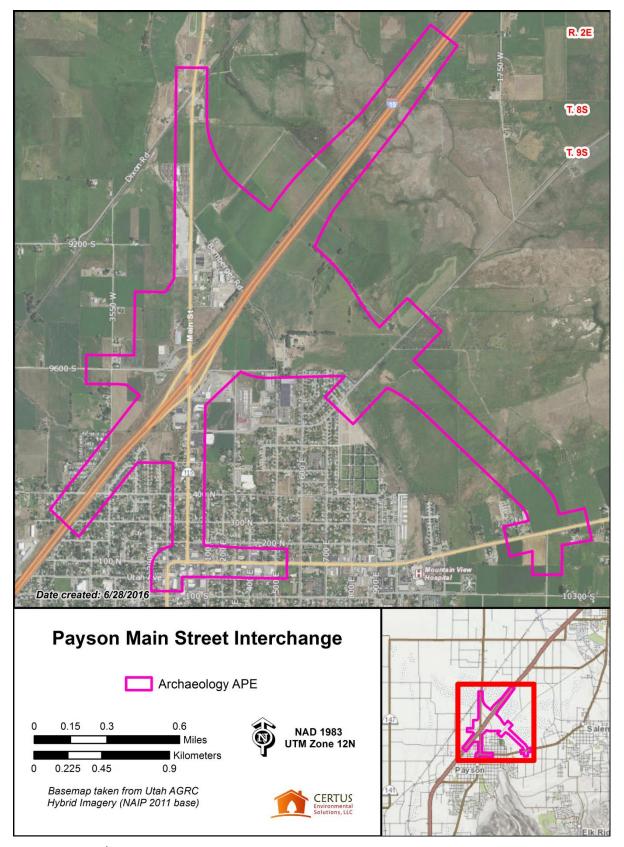


Figure 3. APE/Survey Area; I-15 Payson Main Street Interchange Project

portion of the APE/survey area is dominated by a combination of historical and modern residential and commercial development, while the western part of the area is a mix of residential, agricultural, and industrial uses. The core area of historical development extends along the Main Street portion of the APE/survey area.

Elevation of the APE ranges from approximately 4530 feet above sea level west of Interstate 15 to 4585 feet above sea level east of Interstate 15, near SR-198. Vegetation is a mixture of residential and commercial landscaping in the developed area of the community, agricultural crops (mostly hay) north and east of the developed area, and invasive plants, including Scottish thistle, cheat grass, and Russian olive trees. Riparian and wetland vegetation is prevalent in the northern portion of the APE, near the Beer Creek area. Occasional remnant stands of low sagebrush are present in pockets around the community. Soils throughout much of the APE have been altered by the introduction of organic material for agricultural development; however, base soils are medium brown, fine-grained silty loam with a moderate content of subangular gravel.

Previous Surveys and Known Archaeological Resources

Certus conducted a file search on December 8, 2014, for the general area of the interchange project. This file search was updated on June 9, 2016, just prior to the field effort reported herein. The file search took place via the Utah State Historic Preservation Office (SHPO) online system, Preservation Pro. Certus also conducted a general literature review of historical archaeological investigations in the Payson area and reviewed historical air photos, USGS topographic maps, and General Land Office (GLO) maps for the area.

The file search via the Preservation Pro system encompassed the APE and an area extending up to 1/2-mile beyond the APE. This area is depicted on **Figure 4** in **Appendix A**, attached, along with the locations of previous projects and documented archaeological resources. The file search indicated that 12 previous cultural resource investigations have taken place in and within 1/2-mile of the current APE. These projects are summarized in **Table 1**, below.

Table 1. Prior Cultural Resource Projects and Documented Archaeological Sites in and near the APE

Project Number	Survey Description / Survey Entity	Sites Documented in File Search Area ¹
U76BL0025	South Utah Lake Alternate Transmission Line / Bureau of Land Management	None
U84BC0286	Proposed Payson Commuter Park Lot / BYU – Office of Public Archaeology	None
U90NP0459	Santaquin Waste Water Project / A.K. Nielson & Assoc.	None
U93NP0118	RB&G Spanish Fork I-15 South Loop Road / A.K. Nielson & Assoc.	None
U95SJ0228	Four Union Pacific Railroad Crossing Closings near Payson / Sagebrush Consultants	None
U00SY0537	Silver State Fiber Optic / Summit Envirosolutions	42UT001191 , 42UT001192
U02BS0779	700 North Upgrade in Payson / Baseline Data	None

Table 1. Prior Cultural Resource Projects and Documented Archaeological Sites in and near the APE

Project Number	Survey Description / Survey Entity	Sites Documented in File Search Area ¹
U02EP0113	Payson Parcel / EarthTouch	42UT001330, 42UT001331
U07HO1323	Payson Parkway Health Center / Bighorn Archaeological Consultants	None
U07JS0337	I-15 Corridor Improvements / Jones & Stokes	42UT000935
U08BS0543	Nebo Loop Scenic Byway Trail / Baseline Data	None
U09EP0796	Addendum: I-15 Project Utah County to Salt Lake County / EarthTouch	42UT000935, 42UT001721, 42UT001722

¹ Site numbers in bold represent sites or site segments located <u>in</u> the current APE.

Of the 12 previous investigations, none encompassed any substantive portion of the current APE except for projects U07JS0337 and U09EP0796, which covered the entire UDOT right-of-way along Interstate 15 through the APE. Because these assessments were conducted fewer than 10 years ago and used a 45-year age criterion for documenting resources, Certus *did not resurvey the interstate right-of-way* as part of the current undertaking.

Nine archaeological sites have been documented in the APE—some as part of the past projects noted above, and some as part of other efforts. The nature of these resources is summarized in **Table 2**, below, and their locations are depicted of **Figure 4** in **Appendix A**, attached.

Table 1. Previously documented sites in the file search area

Site # ¹	Description	NRHP Eligibility
42UT000152	Prehistoric – Two burial pits with human remains	Undetermined
42UT000935	South Field Canal	Eligible
42UT001029/42UT001191	Historic railroad – Union Pacific/Utah Southern	Eligible
42UT001101 ²	Historic railroad – D&RGW Railroad	Eligible
42UT001192	Benjamin Cemetery	Eligible
42UT001330	Historic homestead	Ineligible
42UT001331 ³	Historic ditches	Ineligible
42UT001721	Historic ditch	Ineligible
42UT001722	Historic ditch	Ineligible

¹ Site numbers in bold represent sites located <u>in</u> the current APE.

² The segment of the D&RGW Railroad documented in the current APE was erroneously assigned site number 42UT001101. It should have been documented under site number 42UT001194, as part of the Tintic Range Railway.

³ Site 42UT001331 is part of the South Field Canal system, which is documented as site 42UT000935

As indicated in Table 2, five of the previously documented sites are located—at least partially—in the current APE. Two of the sites are historic railroad alignments, and three are historic ditches. Both railroads have been determined eligible for the National Register of Historic Places (NRHP) as a result of prior documentation. However, it should be noted that the railroad site documented as site 42UT001101 was erroneously assigned that site number, which pertains to the D&RGW mainline railroad and not the branch line (the Tintic Range Railway or Tintic Branch) actually represented by the rail alignment in the current APE. This site should have been documented under site number 42UT001194. The ditch segments have been determined ineligible. Certus revisited the locations of all previously documented sites in the APE as part of the current undertaking. Updates to their site records were prepared as needed.

In addition to the project and site files available through Preservation Pro, Certus reviewed historical GLO maps, USGS topographic maps, and air photos for information about potential cultural resources in the APE. GLO maps from 1856, 1871, and 1892 were reviewed. More recent GLO maps do not depict any detail of the APE. The 1856 and 1871 GLO maps depict a number of natural springs and sloughs as well as Duck Creek (now called Beer Creek) crossing the northern part of the APE near present-day Interstate 15 and Dixon Road. Several ditches and wagon roads are also shown in the area. Most of these features are located in areas now occupied by the interstate or Dixon Road, though a few are located in what are now developed livestock grazing fields. The 1891 map illustrates the beginnings of the Payson townsite plat in the core area of the community around present-day SR-198 and Main Street as well as a few unnamed linear features that may be ditches in the area of the present-day Interstate 15 interchange.

Historic topographic maps for the area were located for the years 1948 and 1950. These maps depict the D&RGW and Union Pacific Railroads running through the current APE, as well as the majority of existing roadway infrastructure in and around Payson. The areas north and east of Payson-proper are depicted as undeveloped lands with numerous marshy areas.

Air photos were available online for the Payson area for the years 1946, 1947, 1953, 1954, and 1969. These images depict the majority of the land development currently present in the area. They depict the lands north and east of Payson as undeveloped agricultural lands divided by numerous fences. By the 1940s, the current pattern of fields (e.g., size and shape) appears from the air photos to have been established. No structures are visible in the areas of the APE outside the developed townsite and extant farmsteads.

PALEONTOLOGICAL CONSULTATION

In accordance with UDOT guidelines, Certus consulted with the Utah Geological Survey (UGS) regarding the presence/absence of and potential for encountering fossil resources within the APE. This consultation was undertaken via written letter to Ms. Martha Hayden of the UGS. Ms. Hayden indicated that no known paleontological localities have been recorded in the APE or its immediate vicinity. She also noted that the Quaternary and Recent alluvial and lacustrine deposits (PFYC 2) exposed in the project area have little potential for yielding significant fossil localities. A copy of Ms. Hayden's consultation letter is included in **Appendix B** of this document.

HISTORIC OVERVIEW

The following brief overview of the history of the Payson City area is meant to provide a basic context within which to consider the relative significance of cultural resources encountered during the assessment of the Main Street Interchange Project APE. This context is derived heavily from the Payson Historic District National Register nomination form (Broschinsky 2007).

Payson was permanently settled by Euro-Americans in the early 1850s, when Mormon pioneers were sent to the area with direction to establish a settlement (Broschinsky 2007). Subsistence agriculture formed the basis of the early economy, with homes located near the center of the settlement and communal and individual agricultural fields located around the periphery. The first buildings in the area were constructed of locally available logs and adobe. As saw mills, a nail factory, and similar enterprises were established, the initial makeshift homes gave way to more substantial structures. By the mid-1860s the population of Payson had already risen to nearly 1,140 residents, and the number of dwellings was approaching 300 (Broschinsky 2007).

Change came to Payson in 1875 with the completion of the Utah Central Railroad through the community. Ultimately connected to the larger Transcontinental Railroad, the Utah Central Railroad connected Payson directly to national landscape for the first time in the community's history. Not only were new markets available for locally produced products, but goods from across the nation were now far more accessible to Payson residents. The rail connection boosted the local economy, which in turn drove construction of additional building stock. The number of commercial structures increased substantially, and a commercial district formed at the center of town. As brick became more widely available in Payson, earlier wooden storefronts in the commercial district were replaced with brick façades. Not surprisingly, most commercial structures, as well as most dwellings, constructed during at this time and over the next 15 years heavily reflected Victorian architectural styles also common throughout Utah and the rest of the nation.

In 1882, the town embarked on a major undertaking to improve the community's infrastructure. Over the next 10 years, dirt roads were realigned and graveled, water mains were improved, and electric lights were installed, among other improvements (Broschinsky 2007).

As the 1800s came to a close, Payson experienced an economic boom created by the availability of wage employment from several large, regional projects, including the massive Strawberry Irrigation Project and the Orem Railroad (Broschinsky 2007). By 1900, the population of Payson had risen to 2,636 residents and had experienced a diversification of the town's cultural and ethnic complexion. The commercial district continued to thrive and a number of large scale public buildings, such as the iconic Peteetneet School, were constructed around this time.

The proliferation of interurban railroads and the increased agricultural productivity resulting from the Strawberry Irrigation Project served as the basis of a booming economy that fostered new housing and commercial development. Between 1910 and 1920 the number of dwellings increased by approximately 50 percent, and by the mid-1920s, Payson's Main Street commercial district boasted more than 60 businesses (Broschinsky 2007).

The onset of the Great Depression at the end of the 1920s served to slow the economy of Payson, as it did with communities across America. Heavily reliant on sales of agricultural products, Payson's

economy suffered greatly; although the sugar beet industry, a major component of the local agricultural industry, remained surprisingly stable. Despite the downturn, however, the local government continued to invest in community development, at times leveraging labor and funding available through federal New Deal programs. Concrete sidewalks, rock-lined ditches, sewer system upgrades, and changes to school athletic fields and community parks were all part of the improvements implemented during the 1930s and early 1940s in Payson (Broschinsky 2007).

The onset of World War II had an immediate and boosting effect on the national economy, including that of Payson. The wartime demand for agricultural products fostered the shift from small family farms to consolidated commercial agribusiness. With economic vitality once again came an increase in new construction and investment in community infrastructure. As most of the core area of Payson had been built upon by this time, larger town lots began to be subdivided and new subdivisions, many comprising street upon street of similar Ranch houses, sprang up around the fringes of the developed townsite. The rise of the automobile culture after World War II further served to change the complexion of the community as residents could live further and further away from the town proper. Construction of new roads and expansion of existing roads to accommodate increased automobile traffic transitioned the look of Payson into the modern urban city it is today.

FIELD METHODS

Certus applied standard intensive-level archaeological survey methods accepted by the Utah State Historic Preservation Officer (SHPO) and the UDOT. UDOT guidelines call for a 45-year age cutoff for considering resources historical—an effort to accommodate a time lag between the compilation of the survey data and actual construction associated with the undertaking. As such, Certus employed a cutoff date of 1971 to designate structures as historical.

Sheri Murray Ellis of Certus inventoried the APE by transects spaced no more than 15 meters (50 feet) apart across all undeveloped lands; developed lands are defined as those lands paved with asphalt or concrete or covered by residential or commercial landscape. Fenced back yards in the Payson townsite were not subjected to intensive-level survey, but all open lots and agricultural fields were inventoried in this manner. Developed areas were inventoried via a combination of a windshield survey and documentation of archaeological resources during the survey of historic buildings. Although all open lands were inventoried using intensive-level transect spacing, several parcels in the area north and east of the Payson townsite contained tall grasses (waist high) and other dense vegetation such that the ground surface was almost entirely obscured, and sight distance was no greater than 5 feet either side of the transect. As such, the inventory should be considered a reconnaissance of the area rather than a detailed visual inspection. The areas of the APE considered covered at intensive and reconnaissance levels are depicted in Figure 5, below. In total, approximately 515 acres received intensive-level coverage and approximately 315 acres received reconnaissance-level coverage.

Due to vegetation cover and the high potential for prehistoric land uses in the marshy, wetlands area around Beer Creek in the northern portion of the APE, Certus excavated a series of shovel probes to inspect the subsurface context of the area. The use of shovel probes and their subjective

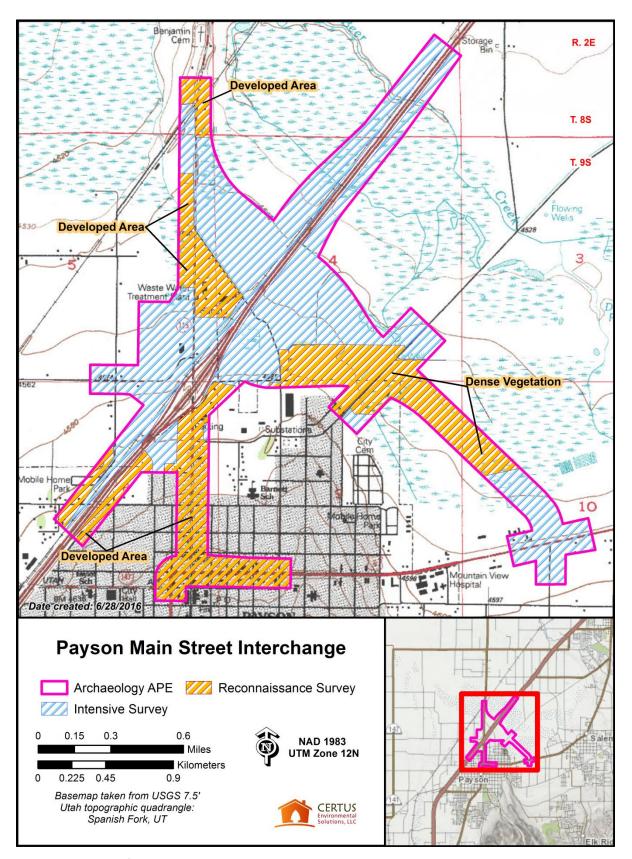


Figure 5. Areas of intensive and reconnaissance coverage within the APE

placement was directed by the UDOT, in with Utah consultation the State Preservation Office. In all, Certus excavated 39 shovel probes in the high probability areas east and west of Interstate 15. The tested landforms comprise shallow rises above wetlands and natural sloughs and drainages, including Beer Creek. Probes were excavated to a depth of 15 to 24 inches, depending on landowner permission and other limitations. All probes were backfilled. The locations of the probes are shown on Figure 6, below. East of Interstate 15, soils in the upland areas were homogenous medium brown fine-grained silty loam for the depth of all



Typical shovel probe east of Interstate 15

excavations. Gravels were scarce and when present, were small and subangular in nature. The soils were hard packed, dry, and dense. West of Interstate 15, soils were of the same type but wet throughout the tested area; the rises amidst the sloughs and wetlands are lower on the west side of the interstate than on the east side.

Archaeological resources encountered during the survey were documented on Intermountain Antiquities Computer System (IMACS) site forms with accompanying digital photographs. Locational information was obtained using a handheld GPS unit capable of sub-meter accuracy.

RESOURCE EVALUATION METHODS

In accordance with 36 CFR § 60, cultural resources documented as part of federal undertakings are to be evaluated for their eligibility for the NRHP under four specific criteria and with consideration for seven elements of integrity. A resource may be considered eligible for listing on the NRHP if it:

- A- is associated with events that have made a significant contribution to the broad patterns of our history; OR
- B- is associated with the lives of persons significant in our past; OR
- C- embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; OR
- D- has yielded, or may be likely to yield, information important in prehistory or history.

Resources considered potentially eligible under one of the above criteria are also to be evaluated for integrity of location, design, setting, materials, workmanship, feeling, and association. To be eligible for listing on the NRHP, a resource must possess integrity of those elements directly related to the criterion or criteria under which it would be determined eligible.

FINDINGS

Certus identified 11 site and two isolated occurrences in the APE as a result of the field inventory. The sites include portions of five previously documented sites: 42UT000935/1331, 42UT001029,

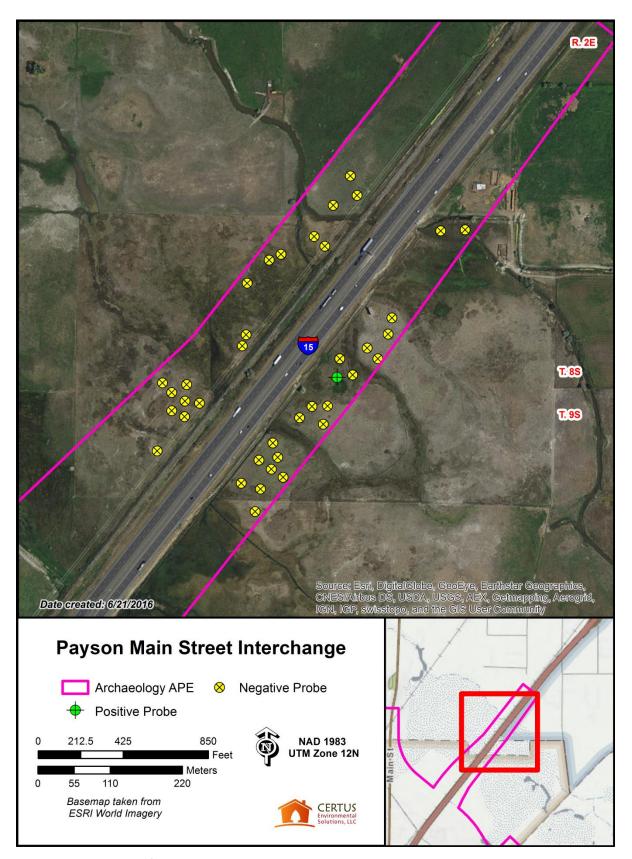


Figure 6. Locations of shovel probes

42UT001194, 42UT001721, and 42UT001722. In some cases, new components or segments of these previously documented sites were identified in the APE.

In addition to these previously documented sites, Certus identified six previously undocumented archaeological resources in the APE. These include a historic corral site (42UT001942), a historic depression with intact subsurface artifact deposits (42UT001943), the remains of demolished historic residential property (42UT001944), a segment of the historical Arrowhead Trail highway (42UT001945), and segments of the 4th North Ditch System (42UT001946) and the Utah Avenue Ditch System (42UT001947).

Descriptions of all archaeological resources identified in the APE are presented below, along with information about National Register of Historic Places (NRHP) eligibility considerations. The locations of these resources are illustrated on **Figures 7 and 8 in Appendix C**, attached.

Isolated Occurrences

Two isolated occurrences were documented in the APE. These include an individual prehistoric artifact (IO-01) and the remains of an unidentifiable historic structure (IO-02). See **Figures 7 and 8 in Appendix C** for the locations of these occurrences.

Isolated Occurrence 1 (IO-01)

IO-01 is a single piece of prehistoric lithic debitage. It consists of a secondary flake of mottled grey chert found on a low rise in an area of wetlands and sloughs south of Beer Creek and on the east side of Interstate 15. The artifact measured approximately 1.3 cm long by 1.1 cm wide by 0.2 cm thick. The item retains the bulb of percussion and exhibits three small flake scars on the dorsal surface.



10-01

Isolated Occurrence 2 (IO-02)

IO-02 is a series of sawed-off wooden posts that appear to represent a former structure. Although the exact age of the feature is unknown, it is assumed to date to the historic period based on the nature of weathering of the wooden posts, which were cut off near ground-height with a handsaw or similar tool. No artifacts were found in association with the feature, which is located on a low rise just south of Beer Creek.

The nature and former function of the structure could not be determined, as no historical maps or aerial photographs depict a structure in this location, and the current landowner and other local informants were unaware of the feature. The posts are round—similar to wooden utility poles—and vary in diameter from 6 to 10 inches. A total of 17 posts were observed.



IO-02; facing east

Archaeological Sites

As noted above, Certus identified 11 archaeological sites in the APE for the Payson Main Street Interchange EIS alternatives. Descriptions of these resources are provided below.

Site 42UT000935/42UT001331, South Field Canal System

Site 42UT000935/42UT001331 is the South Field Canal system. The portion of the system documented here comprises lateral field ditches located north of Payson on the east and west sides of Interstate 15. In all, approximately 1.25 miles of the ditch network were documented, though only a small portion of that is located within the current APE. Throughout the newly documented segment, the ditch is unlined (earthen) and averages approximately 5 feet wide across the top and between 2 and 3 feet deep. No historical features were noted, though modern turnouts and similar water control features were observed and likely replaced older versions of such structures.

According to the previous documentation of other segments of the system nearby, the South Field Canal was originally constructed in 1855 and is, therefore, one of the earliest constructed canals in the Utah Valley (Billat and Billat 2009a). The lateral network was no doubt constructed shortly after the primary canal was completed.

Segments of the site have been documented previously under two different site numbers. Upon first documentation, the site was assigned number 42UT000935. In 2002, EarthTouch documented segments of the system near Payson but did not identify it as part of the South Field Canal network. Rather, it was assigned a new site number (42UT001331) and identified as an unnamed irrigation network. In 2009, EarthTouch documented another segment of the system north of Payson and identified it as part of the South Field Cabak site under number 42UT000935.

NRHP Considerations for Site 42UT000935/42UT001331: Site 42UT000935/42UT001331 is the South Field Canal system. The overall ditch system has previously been determined to be eligible for the NRHP under Criterion A. Some segments have also been determined eligible for the NRHP under Criterion C. The segments of the system documented as part of the current undertaking retain integrity of location, setting, association, feeling, and workmanship. The integrity of design and materials has been compromised somewhat by the replacement of historical features with modern corollaries. Although the newly documented segments are unremarkable in their engineering aspects, they are largely intact elements of the original historical ditch network. As such, Certus recommends they be considered contributing to the overall determination that the site is eligible for the NRHP under Criterion A.

Site 42UT001029, Union Pacific Railroad/Utah Southern Railroad

Site 42UT001029 is the Union Pacific Railroad/Utah Southern Railroad corridor, which crosses the current APE at an oblique angle on Dixon Road, north of Payson and west of Interstate 15. This segment of the railroad was documented in 2000 by Summit Envirosolutions. Specifically, the consultant documented this portion of the rail line as "Segment E" in the IMACS site form.

Certus revisited the site location in the APE as part of the current undertaking. The segment retains the same dimensions, materials, and overall design as when it was documented in 2000. As such, Certus did not prepare an update to the site record.

NRHP Considerations for Site 42UT001029: As a whole, the Union Pacific Railroad/Utah Southern Railroad has been determined eligible for the NRHP under Criterion A as a result of previous documentation. Specific segments or features have also been determined eligible under Criterion C. The segment in the current APE was determined eligible for the NRHP as a result of the documentation by Summit Envirosolutions in 2000. As there have been no notable changes to this site segment since that documentation, Certus recommends the current determination stand as is—the site is eligible for the NRHP under Criterion A, and the segment in question contributes to the overall eligibility of the site.

Site 42UT001194, Denver & Rio Grande Western Railroad/Tintic Range Railway

Site 42UT001194 is the Denver & Rio Grande Western Railroad (D&RGW) Tintic Railway corridor, which crosses the current APE at an oblique angle along the west side of Interstate 15; the rail line parallels the interstate. A short segment of the rail line on the east side of Main Street/Dixon Road was documented by Jones & Stokes in 2007. Certus documented an additional 2.5 miles of the rail site north and south of this previously documented segment.



Through the current APE, the D&RGW line has Site 42UT001194; Typical D&RGW Segment in the APE been abandoned and is no longer actively used. The

line crosses Main Street/Dixon Road in Payson at grade, but the remainder of the documented segment is characterized by an obvious berm ranging in height from 2 feet to 6 feet. The rails, ties, and ballast remain intact along the documented segment, though they are heavily overgrown with vegetation. No other historical features were observed along the newly documented segment. Any rail crossings and signals once present at the crossing of the railroad at Main Street/Dixon Road, were removed when the rail line was abandoned.

The segment of the railroad documented here was originally part of the Tintic Range Railway, which was completed between Springville and Silver City in 1892 (Robertson 1986:289). This rail line served to transport ore from the mines in Silver City, Mammoth, and Eureka to the main Rio Grande Western Railroad at Springville. The railroad was merged into the Denver & Rio Grande Western Railroad system in August 1908 (Robertson 1986:289). It appears the line was abandoned sometime prior to 1995.

NRHP Considerations for Site 42UT001194: As a whole, the Denver & Rio Grande Western Railroad Tintic Range Railway has been determined eligible for the NRHP under Criterion A as a result of much previous documentation of segments of the rail line. Specific segments or features have also been determined eligible under Criterion C. The short segment that was previously documented in the current APE was determined eligible for the NRHP as a result of the documentation by Jones & Stokes in 2007 under the incorrect site number 42UT001101. The remaining portions of the segment of the railroad reported here all retain their integrity of location, setting, feeling, association, materials, design, and workmanship, as they have essentially been abandoned in place, as-is. As such, Certus recommends the newly documented sections of the D&RGW Tintic Range Railway be considered to contribute to the overall site as being <u>eligible for the NRHP under Criterion A</u>.

Site 42UT001721, Old Field Ditch System

Site 42UT001721 is the Old Field Ditch system. A portion of the site was documented in 2009 by EarthTouch (Billat and Billat 2009b) and was identified as an unnamed ditch. Approximately 1.5 miles of the ditch were documented as part of the current undertaking, including the previously documented segment. Most of the identified segments of the canal network are concrete lined and measure approximately 3 feet wide by 1-2 feet deep. Other segments with similar dimensions are unlined.



Site 42UT001721; Old Field Ditch; west of Main Street, looking west

Though the exact date of construction is unclear, looking west the Old Field Ditch appears likely to have been

constructed by 1900, as the agricultural fields north of the developed core area of Payson were in place by that time and would have required irrigation water to be productive. It is fed by Peteetneet Creek and crosses Main Street in Payson near 600 North. It extends east and west from here, with only a small portion of the original open ditch system remaining to the east and north. A more extensive open portion of the system remains west of Interstate 15. Most of the system has been piped.

NRHP Considerations for Site 42UT001721: When documented by Billat and Billat in 2009 as an unnamed ditch, site 42UT001721 was determined ineligible for the NRHP under all criteria. The basis for this determination was a lack of known historical associations and a general lack of integrity on a systemic level due to piping of most of the associated ditch network; the piping makes it difficult to trace the path and extent of the ditch system based on its surface manifestation. Certus agrees that although the Old Field Ditch system was likely constructed relatively early in the settlement period for Payson, the extensive piping of most of the network has severely compromised the site's integrity of setting, feeling, association, design, materials, and workmanship. Certus further recommends the site remain determined ineligible for the NRHP.

Site 42UT001722, Bamberger Ditch System

Site 42UT001722 is the Bamberger Ditch system. The site was first documented in 2009 by Earth Touch as part of improvements to Interstate 15 (Billat and Billat 2009c). The portion of the site documented in 2009 passes through the current APE and is included in the documentation presented here. Certus documented numerous additional components of this ditch network as part of the current effort. In total 7.3 miles of the Bamberger Ditch system are reported here.

For the most part, historical features along the ditch network are extremely limited; most historical features, such as turnouts and check dams, have been replaced by modern corollaries. A single historical, cast-in-place concrete diversion was noted along a segment of the main ditch paralleling the east side of Bamberger Road. The ditch channels of the Bamberger system vary in size. All are unlined

U-shaped channels, with the main channel following Bamberger Road measuring approximately 8 feet wide across the top and averaging 3 feet deep. The lateral channels are typically smaller, averaging roughly 3 feet wide and 1-2 feet deep. Some segments of the ditch have been piped underground, but a large network of surface ditches remains.

No specific date of construction was located for the Bamberger Ditch system, though it likely dates to the pre-1900 settlement period of Payson. It is clear the system is of historical age, as segments of the network can be deciphered on a 1946 aerial



Site 42UT001722; Bamberger Ditch; typical ditch channel and historic water diversion east of I-15 near Bamberger Road

photograph of the area. The system, which is fed by Peteetneet Creek, was likely renamed for the Bamberger Railroad line built next to the main ditch in the early 1800s.

NRHP Considerations for Site 42UT001722: As a result of the documentation of portions of site 42UT001722 in 2009 by Earth Touch, the site was determined ineligible for the NRHP due to a lack of integrity resulting from presumed extensive piping and a lack of important historical associations. While portions of the system have been piped, especially from the weir on Peteetneet Creek and through the town of Payson, the ditch network north of town remains relatively intact. These portions of the system retain integrity of location, setting, feeling, association, and design. Their integrity of workmanship and materials has been compromised somewhat due to the replacement of most historical features (e.g., turnouts, check dams, etc.) with modern versions.

It appears likely that the Bamberger Ditch system was established during the settlement period of Payson, when lands north of the settled community were developed for agricultural purposes. Such development not only sustained the early settlement but allowed it to transition from subsistence agriculture to a cash economy based on surplus agricultural products. For this reason, Certus <u>recommends site 42UT001722 be considered eligible for the NRHP under Criterion A.</u>

No information suggesting an association of the Bamberger Ditch system with important historical individuals was identified. As such, Certus recommends this site ineligible for the NRHP under Criterion B.

This site lacks notable architectural or engineering characteristics, at least amongst the segments documented as part of this undertaking. Certus recommends the site ineligible for the NRHP under Criterion C.

The site has not yielded information important in expanding or refining our understanding of past land uses or irrigation practices in the Payson area, and it does not appear to have the potential to do so. Certus recommends the site ineligible for the NRHP under Criterion D.

Site 42UT001942, Historic Corral Site

Site 42UT001942 is a historic livestock corral, stock shelter, and smaller lean-to style shelter located along the north side of 920 North, just east of the northbound Interstate 15 on-ramp. The site is located in an agricultural field. The corral is constructed of juniper and wood planks, while the shelters are constructed of wood planks and corrugated metal sheeting. A ca. 1940s-1950s manure spreader was found west of the corral/shelter complex.

The exact age of the structures at the site is unknown. Evidence of structures first appears on the 1969 air



Manure spreader at site 42UT001942

photo; they are not visible on air photos from the 1940s. The features—corral and shelters—show substantial deterioration from weathering and lack of maintenance.

NRHP Considerations for Site 42UT001942: Site 42UT001942 is a historic corral with associated livestock shelters and an abandoned historical manure spreader. The site appears to retain integrity of location, and its integrity of setting, feeling, and association remain relatively intact. The site's integrity of design, materials, and workmanship are all compromised due to deterioration of the structures and intermixing of modern materials with the historic ones. The site is not associated with important events in the history of the local, regional, national, or international communities. Rather, it is representative of the late historic period (i.e., recent past) of farming and ranching in Payson. The site is not known to be associated with important historical persons, and does not appear to have the potential to yield additional information about local history, land uses, or agriculture through its physical remains. The structural remains at the site are sufficiently deteriorated and lacking in notable architectural or engineering design to not represent a type, style, or manner of construction. As such, Certus recommends site 42UT001942 be considered ineligible for the NRHP under all criteria.

Site 42UT001943, Historic Depression

Site 42UT001943 is a small depression located on a low rise south of Beer Creek and amidst a series of sloughs east of Interstate 15. The depression measures approximately 17 feet long and 10 feet wide across the top. It is approximately 3 feet deep. The depression is oriented in a roughly north-south direction, with the southern 4-5 feet of it comprising a narrow and tapering "ramp" entry into the deeper part of the depression. A series of eight small cobbles are arranged end-to-end in an eastwest alignment roughly 10 feet south-southwest of the "ramp." The cobble alignment measures Site 42UT001943. Strap from plow, wagon, or yoke approximately 4 feet long.



A large rock was embedded in the ground at the center of the depression. The rock showed evidence of fire effects, including reddening of the stone and spalling. One fragment of clear flat glass was found on the surface inside the depression, but no other artifacts were observed in or surrounding it. A shovel probe placed in the bottom of the depression, immediately north of the fire-affected rock, yielded a number of historic artifacts beginning at approximately 6 inches below modern ground surface (bmgs) and extending to at least 18 inches bmgs. The artifacts, which were mixed with ash and charcoal, included numerous fragments of an aqua colored canning jar with light bubbles in the glass, one fragment of plain white stoneware, a rusted fragment of a cap from a hole-in-cap can and numerous fragments of tin cans, several cut and whole faunal bones (likely pig and/or goat), two wire nails, and a steel strap with D-rings from the end of a single tree from a wagon, plow, or yoke.

Based on the limited artifact assemblage found through the shovel probe, the site appears likely to date to the early 1900s/turn-of-the-last-century. Land patent records from 1874 indicate the land on which the site is located was patented to Andrew Cowan. However, it is unclear if Cowan or his family retained the land into the early 1900s. Available GLO maps from 1871 show the general area as marshy and containing a ditch, Duck Creek (now Beer Creek), and a fenced field. It does not depict any structures that would be related to this site. Later GLO maps do not depict the area in any detail. Historical USGS maps and aerial photographs from the 1940s and 1950s likewise do not show any visible structures or constructed features in the area of the site.

NRHP Considerations for Site 42UT001943: Site 42UT001943 is a newly documented historical site comprising an earthen depression, a short alignment of cobbles, and subsurface artifacts. No information about the history of the site has yet been located. Based on the general lack of information or knowledge of the resource amongst local informants suggest it was not associated with events or persons of significance in local, regional, national, or international history. As such, Certus recommends the site ineligible for the NRHP under Criteria A and B.

Although the site is "structural" in nature, it does not represent a type, style, or work of a master. Further, it does not possess high artistic value and does not reflect any particular type or manner of construction. For these reasons, Certus recommends the site ineligible for the NRHP under Criterion C.

A shovel probe placed in the bottom of the depression at the site yielded subsurface historic artifacts. The quantity was relatively plentiful for a small shovel probe. Some of the items contained temporally diagnostic marks and other information that allow for their placement in historical context. As such, the site does appear to have the potential to yield information that could expand or refine our understanding of land uses in the Payson area around the turn-of-the-last-century, especially given that no information about the site has yet been located. Therefore, Certus recommends site 42UT1943 eligible for the NRHP under Criterion D.

Site 42UT001944, Historic Residential Property

Site 42UT001944 is the remains of an early 1900s residential property. The site is located on the west side of SR-198, west of downtown Payson. The property address is 51 North 100 West. The former residential buildings on the property were demolished following a fire in 2013 leaving behind foundation remnants, driveway and patio pavement, and residential landscaping. Historical artifacts

present at the site were limited to structural debris such as concrete, bricks, and wire nails, and one fragment of violet colored glass.

The former dwelling on the property appears to have been constructed prior to 1946 based on aerial photographs. Structures on adjacent properties were constructed ca. 1915. A modern photograph of the property suggests the dwelling may have been a Victorian form such as a crosswing structure that had been added onto many times during the modern era.



Site 42UT001944. Overview of site looking west

Given the age of the site, no features such as privy vaults that might contain buried resources are expected to be present at the site, and no evidence of such features was encountered during the field documentation.

NRHP Considerations for Site 42UT001944: Site 42UT001944 is the remains of a historic residential property. The site retains integrity of location and, to some degree, association, but lacks integrity of design, materials, workmanship, setting, and feeling due to the demolition of the historical dwelling and associated outbuildings. Based on this lack of integrity, Certus recommends the site ineligible for the NRHP under all criteria.

Site 42UT001945, Arrowhead Trail Highway

Site 42UT0001945 is the Arrowhead Trail Highway. A segment of the historic route of the highway passes through Payson along what is now referred to as Arrowhead Trail Road. The road segment through Payson and the current APE is actively used and maintained. An approximately 1.2-mile long segment of the two-lane road was documented as part of the current undertaking. No historic features other than the alignment itself were noted along this segment.

The Arrowhead Trail Highway was created as an allweather auto route between Los Angeles and Salt Site 42UT001945. Typical road segment; looking northeast Lake City around 1915. In most areas, the highway



was created by combining segments of existing routes; very little new construction occurred. In the Payson area, the highway incorporated what would become a segment of US-91 (before it was reassigned), which extended northeast from Payson to Salem and Spanish Fork. The Arrowhead Trail moniker faded into obscurity by 1926 with the creation of the interstate highway system and the designation of most of the route as US-91. The route through Payson remained known as the Arrowhead Trail Road as an alternate road alignment was designated as US-91 through this area. The road segment still serves as a main thoroughfare between Payson and communities to the northeast.

NRHP Considerations for Site 42UT001945: Segments of the Arrowhead Trail Highway route have been documented in other counties in Utah, including Wasatch and Box Elder counties (site numbers 42WS004409 and 42BE002191). No segments have been previously documented in Utah County. Some of the segments documented in Wasatch and Box Elder counties exhibit the same characteristics as the segment documented here—they remain actively maintained and used roads. The previously documented segments were determined eligible for the NRHP under Criterion A. A few segments were also determined eligible under Criterion D, as additional features were associated with them. Certus recommends the segment documented near Payson be considered a contributing element of this eligible site.

Site 42UT001946, 4th North Ditch System

Site 42UT001946 is the 4th North Ditch system. This ditch network diverts from Peteetneet Creek in the Payson City Park near 200 South and Main Street. From here the system flows northeast to serve farmlands east and northeast of the city (Brent Arns, personal communication, June 28, 2016). Certus documented approximately 10.3 miles of the system as part of the current undertaking. Most of this comprises lateral ditches extending through and around agricultural fields north of SR-198.

The documented ditch segments vary from unlined field ditches measuring approximately 2-3 feet wide and 1 foot deep to concrete-lined ditches measuring



Site 42UT001946. Example of concrete ditch along SR-198; looking east--northeast

approximately 5 feet wide and 2 feet deep. The concrete ditch segments are primarily located along the north side of SR-198. Aerial photographs and the physical nature of the concrete suggest the lining of the ditch along SR-198 occurred during the late historic period. No notable historical features beyond the ditches themselves were identified, as most of the system appears to have been upgraded to include modern turnouts, culverts, and other diversion structures.

The exact construction date for the ditch system could not be determined from available records and local informants, but it appears likely this ditch is illustrated on a 1908 Sanborn fire insurance map for Payson, as a ditch matching the general alignment and diversion of the 4th North Ditch is present. Further, it seems highly likely the system was established quite early in the settlement period to help irrigate agricultural fields northeast of the developed town plat.

NRHP Considerations for Site 42UT001946: Site 42UT001946 is the 4th North Ditch system. While the portion of the system through the developed part of Payson has been piped, the ditch network northeast of town remains relatively intact. These portions of the system retain integrity of location, setting, feeling, association, and design. Their integrity of workmanship and materials has been compromised somewhat due to the replacement of most historical features (e.g., turnouts, check dams, etc.).

The 4th North Ditch system was established during the settlement period of Payson, when lands northeast of the settled community were developed for agricultural purposes. Such development not only sustained the early settlement but allowed it to transition from

subsistence agriculture to a cash economy based on surplus agricultural products. For this reason, Certus <u>recommends site 42UT001946 be considered eligible for the NRHP under</u> Criterion A.

No information suggesting an association of the 4th North Ditch system with important historical individuals was identified. As such, Certus recommends this site ineligible for the NRHP under Criterion B.

This site lacks notable architectural or engineering characteristics, at least amongst the segments documented as part of this undertaking. Certus recommends the site ineligible for the NRHP under Criterion C.

The site has not yielded information important in expanding or refining our understanding of past land uses or irrigation practices in the Payson area, and it does not appear to have the potential to do so. Certus recommends the site ineligible for the NRHP under Criterion D.

Site 42UT001947, Utah Avenue Ditch System

Site 42UT001947 is the Utah Avenue Ditch system. This network diverts from Peteetneet Creek at the Payson City Park near 200 South and Main Street. From here the system flows northeast to Utah Avenue and then extends west through the developed community and beyond. Certus documented approximately 0.5 miles of the system as part of the current undertaking. These segments are primarily located along 100 North west of 200 West, along Utah Avenue and 100 South just west of Main Street, along the east side of 100 East just north of SR-198, and west of Interstate 15 near 300 North and 400 North.



Site 42UT001947. Example of concrete ditch along 100 South; looking west

Most of the identified segments of the system are lined, though a few short segments east of Interstate 15 and all segments west of the interstate were unlined. The documented segments are all very short, with the shortest being only a few feet long and the longest being no more than 450 feet long. Nearly the entire system has been piped and converted to a pressurized secondary water system. The ditch network, as documented here, manifests on the surface in a variety of ways from J-gutters, to small U-trenches and V-ditches. Most, if not all, of these ditch segments are currently unused since the in-town irrigation system has been pressurized. Staff in Payson City's water department indicate that only a single user remains on the unpressurized part of the system, and this user is located west of Interstate 15 in the agricultural lands (Brent Arns, personal communication, June 28, 2016).

The exact construction date for the ditch system could not be determined from available records and local informants, but it appears likely this ditch is illustrated on an 1890 Sanborn fire insurance map for Payson, as a ditch matching the general alignment and diversion of the Utah Avenue Ditch is present. Further, it seems highly likely the system was established quite early in the settlement period to help irrigate backyard subsistence gardens in the developed town plat.

NRHP Considerations for Site 42UT001947: Site 42UT001947 is the Utah Avenue Ditch system. <u>Certus recommends the site ineligible for the NRHP under all criteria</u> owing to a lack of integrity. The vast majority of the system has been piped underground, and remnant ditches have either been removed or are buried. While the remnant ditch segments documented here retain integrity of location and materials, the system as a whole lacks integrity of setting, feeling, association, design, and workmanship. Because of this, the site as a whole is no longer able to convey its historical role in the Payson community.

SUMMARY AND CONCLUSIONS

Certus conducted an intensive-level archaeological inventory for the I-15 Payson Main Street Interchange Project in Payson, Utah County, Utah, in support of UDOT's proposed interchange improvements. The assessment included both intensive-level and reconnaissance-level survey coverage. Reconnaissance-level coverage primarily occurred in the developed portion of Payson; however, some areas surveyed using intensive-level transect spacing were so densely vegetated as to render the actual visual inspection more comparable to reconnaissance-level coverage. Certus also conducted shovel probing in the northern part of the APE in areas considered to have high potential for buried prehistoric resources.

The archaeological inventory resulted in the identification of 11 archaeological sites and two isolated occurrences. All of the archaeological sites and one of the isolates are historic period resources. The remaining isolate is of prehistoric origin. The documented sites are as follows:

- Site 42UT000935/42UT001331 South Field Canal system
- Site 42UT001029 the Union Pacific/Utah Southern Railroad
- Site 42UT001194 the Denver & Rio Grande Western Railroad/Tintic Range Railway
- Site 42UT001721 the Old Field Ditch system
- Site 42UT001722 the Bamberger Ditch system
- Site 42UT001942 a historic corral site
- Site 42UT001943 a historic depression with subsurface artifacts
- Site 42UT001944 the remains of a historic residential property
- Site 42UT001945 the Arrowhead Trail Highway
- Site 42UT001946 the 4th North Ditch system
- Site 42UT001947 the Utah Avenue Ditch system

Certus recommends that seven sites—42UT000935/42UT001331, 42UT001029, 42UT001194, 42UT001722, 42UT001943, 42UT001945, and 42UT001946—be considered eligible for the NRHP. The remaining sites—42UT001721, 42UT001942, 42UT001944, and 42UT001947—are recommended ineligible for the NRHP.

Anticipated effects on the historic properties from the proposed interchange project were not known to Certus at the time of this report. Those effects will be assessed by UDOT and documented in a determination of eligibility and finding of effect (DOE-FOE) letter.

REFERENCES CITED

Billat, Scott and Lorna Billat

- 2009a IMACS site form for site 42UT000935, the South Field Canal. On file at the Utah State Historic Preservation Office, Salt Lake City.
- 2009b IMACS site form for site 42UT001721. On file at the Utah State Historic Preservation Office, Salt Lake City.
- 2009c IMACS site form for site 42UT001722. On file at the Utah State Historic Preservation Office, Salt Lake City.

Broschinsky, Korral

2007 National Register of Historic Places Registration Form for the Payson Historic District. Accessed online February 15, 2015, at: http://pdfhost.focus.nps.gov/docs/NRHP/Text/07000666.pdf

Ellis, Sheri Murray

2015 Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah. Certus Environmental Solutions, Salt Lake City. Submitted to the Utah Department of Transportation, Region Three.

Utah Department of Transportation (UDOT)

2010 UDOT Guidelines for Identifying, Recording, and Evaluating Archaeological and Paleontological Resources. Utah Department of Transportation, Environmental Services, Salt Lake City.

An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project No. F-I15-6(214)251; PIN 10263

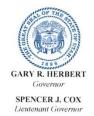
APPENDIX A: FILE SEARCH FIGURE

Per Section 304 of the National Historic Preservation Act [16 U.S.C. 470w-3], this page has been removed

An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project No. F-I15-6(214)251; PIN 10263

APPENDIX B: UGS PALEONTOLOGICAL CONSULTATION LETTER



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Utah Geological Survey

RICHARD G. ALLIS

State Geologist Division Director

June 15, 2016

Sheri Murray Ellis CERTUS Environmental Solutions, LLC 655 7th Avenue Salt Lake City UT 84103

RE: Paleontological File Search and Recommendations for UDOT Project F-I15-6(214)251; PIN 10263; Interstate 15 Payson Main Street Interchange, Utah County, Utah U.C.A. 79-3-508 (Paleontological) Compliance; Request for Confirmation of Literature Search according to the UDOT/UGS Memorandum of Understanding.

Dear Sheri:

I have conducted a paleontological file search for the I-15 Payson Main Street Interchange Project in response to your letter of November 10, 2014. This project qualifies for treatment under the UDOT/UGS executed Memorandum of Understanding.

There are no paleontological localities recorded in our files for this project area. Quaternary and Recent alluvial and lacustrine deposits that are exposed along this project right-of-way have a low potential for yielding significant fossil localities (PFYC 2). Unless fossils are discovered as a result of construction activities, this project should have no impact on paleontological resources.

If you have any questions, please call me at (801) 537-3311.

Sincerely,

Martha Hayden

Paleontological Assistant



An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project No. F-I15-6(214)251; PIN 10263

APPENDIX C: SURVEY RESULTS FIGURES

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Per Section 304 of the National Historic Preservation Act [16 U.S.C. 470w-3], this page has been removed

APPENDIX B

TECHNICAL REPORTS

AN ADDENDUM TO: AN ARCHAEOLOGICAL ASSESSMENT FOR THE INTERSTATE 15 PAYSON MAIN STREET INTERCHANGE ENVIRONMENTAL IMPACT STATEMENT, UTAH COUNTY, UTAH FINAL

An Addendum to: An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah Final

UDOT Project No. F-I15-6(214)251; PIN 10263

Prepared for

The Utah Department of Transportation and H.W. Lochner, Inc.

Prepared by

Sheri Murray Ellis, MS, RPA Owner / Consultant



Certus Environmental Solutions, LLC Salt Lake City, Utah 801.230.7260

Utah Antiquities Project No. U17HY0045p PLPCO Permit No. 47

Certus Project Number LOCH08

February 28, 2017

PROJECT ABSTRACT SHEET

Report Title: An Addendum to: An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project Number and Name: F-I15-6(214)251; Payson Interchange EIS; PIN 10263

Utah State Project Number: U17HY0045p

Project Description: The Utah Department of Transportation (UDOT) is considering improvements to Interstate 15 interchange at Main Street in Payson, Utah. These improvements may include changes to the existing interchange configuration or relocation of the interchange. The UDOT is preparing an EIS to evaluate alternatives for the interchange improvements. Certus Environmental Consultants completed a survey of the original EIS study area in in 2014-2016 (Ellis 2016). Subsequent to those surveys, the EIS study area was expanded into areas not previously surveyed. The assessment of that expanded area is presented herein.

Area of Potential Effects: The area of potential effects (APE) for the addendum archaeological assessment was established as three small block areas at the north, south, and northwestern edges of the original study area. These areas encompass portions of the R Alternatives being considered in the EIS. Collectively they contain approximately 39.1 acres.

Agencies: Utah Department of Transportation; Payson City; U.S. Army Corps of Engineers; U.S. Fish and Wildlife Service, Federal Highway Administration

Location: Payson and Benjamin, Utah County

Land Ownership: Private

Date(s) of Fieldwork: December 14, 2016

Methods: Intensive-level archaeological survey; no historic structures are present in the survey area

Acres Surveyed: 15.8 hectares (39.1 acres)

Archaeological Sites in the APE: 2 (42UT001194 and 42UT001722)

NRHP Eligible Sites: 1 (42UT001194 and 42UT001722)

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INTRODUCTION

The Utah Department of Transportation (UDOT), in conjunction with the Federal Highway Administration (FHWA) is evaluating potential improvements to the Interstate 15 interchange at Main Street in Payson, Utah (**Figure 1**). The improvements may include changes to the existing interchange and/or construction of a new interchange at a different location. Alternatives to address the project purpose and need are being evaluated in an environmental impact statement (EIS). The project is hereafter referred to as the Interchange Project or the I-15 Payson Main Street Interchange Project. The environmental review, consultation and other actions required by applicable Federal environmental laws for this project are being or have been carried-out by UDOT pursuant to 23 USC 327 and a Memorandum of Understanding dated January 17, 2017, and executed by FHWA and UDOT.

H.W. Lochner, Inc. (Lochner) is assisting UDOT with environmental studies for the Interchange Project. Lochner contracted with Certus Environmental Solutions, LLC (Certus) to conduct an assessment of cultural resources in the area of potential effects for the proposed project. Certus Environmental Consultants (Certus) completed a survey of the original EIS study area in in 2014-2016 (Ellis 2016). Subsequent to those surveys, the EIS study area was expanded into areas not previously surveyed (see **Figures 2 and 3**). The assessment of that expanded area is presented herein.

Sheri Murray Ellis, Principal Investigator for Certus under State of Utah Principal Investigator Permit No. 47, conducted fieldwork for the addendum survey project December 14, 2016. All work was carried out under Utah State Antiquities Project No. U17HY0045p. As no buildings or structures are present in the addendum survey area, Certus conducted only an archaeological inventory.

THE AREA OF POTENTIAL EFFECTS AND SURVEY AREA

The project area is located in the community of Payson in Utah County, Utah (see **Figure 1**). Implementation of the project, whether reconstruction of the existing interchange or construction of a new interchange, would require ground disturbance at least several feet deep and would necessitate acquisition of new right-of-way as well as temporary construction easements.

The area of potential effects (APE) for the addendum archaeological assessment was established as three small block areas at the north, south, and northwestern edges of the original study area. These areas encompass portions of the R Alternatives being considered in the EIS. Collectively they contain approximately 39.1 acres (see **Figures 2 and 3**).

The addendum APE is located in Township 8 South, Range 2 East, Sections 33 and 34 and Township 9 South, Range 2 East, Sections 8 of the Salt Lake Base and Meridian. The area can be found on USGS 7.5' topographic quadrangle Spanish Fork, Utah (see **Figure 2**). Lands on which the addendum APE is located are owned by private parties.

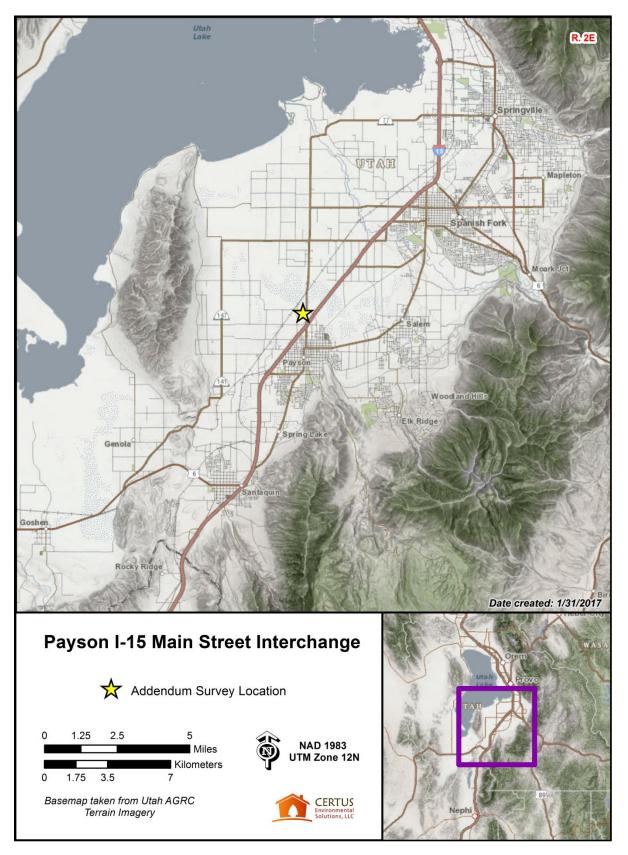


Figure 1. General addendum survey location; I-15 Payson Main Street Interchange Project

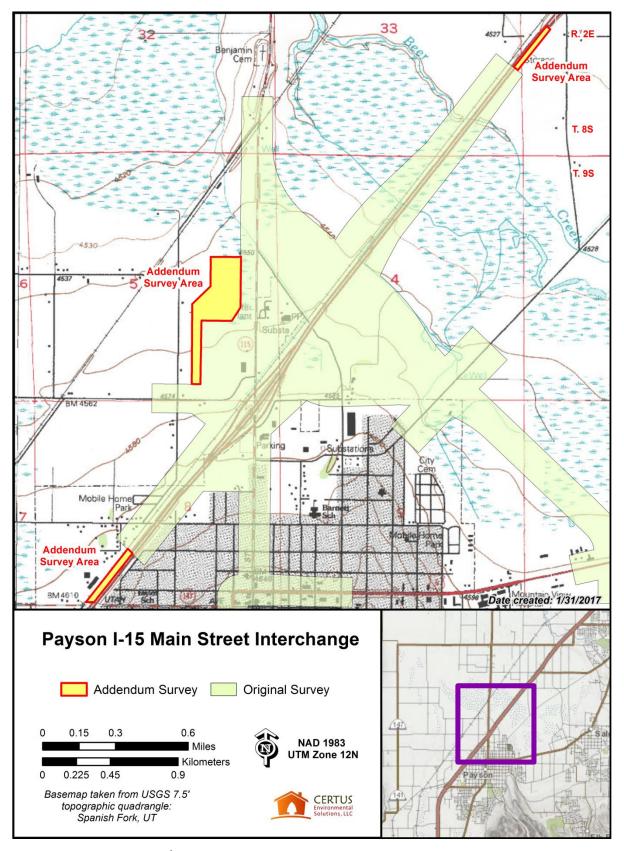


Figure 2. Addendum APE/Survey Area; I-15 Payson Main Street Interchange Project

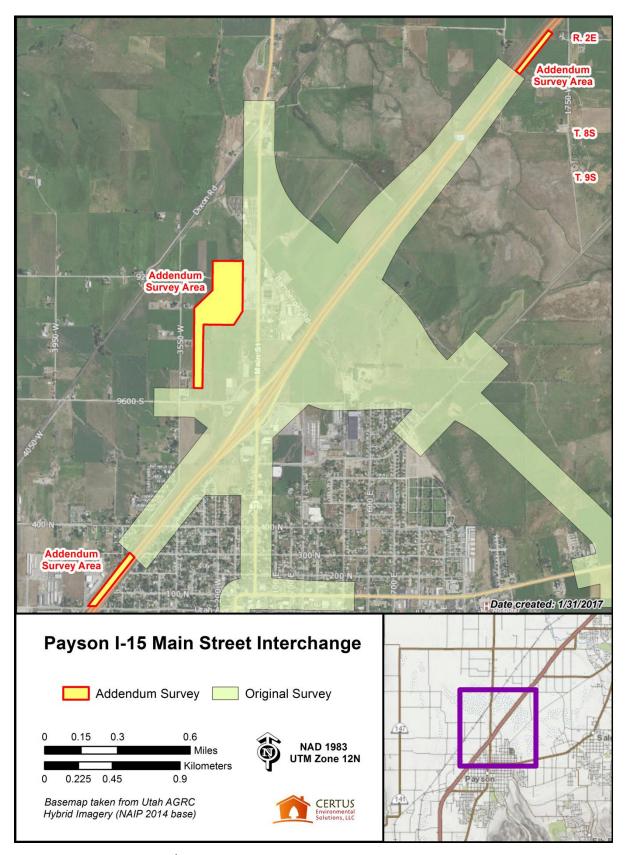


Figure 3. Addendum APE/Survey Area; I-15 Payson Main Street Interchange Project

PROJECT SETTING

The addendum APE is located in a series of agricultural fields used for livestock grazing and alfalfa cultivation. Some of the fields contained short grasses at the time of survey, and ground visibility was good. In the northeastern part of the APE, grasses were taller, especially along ditches and drains, where ample water has spurred tall vegetation growth with grasses and reeds. Invasive plants, such as thistle and Russian olive trees, are also common in this portion of the APE.

Elevation of the APE is approximately 4553 feet above sea level. Soils throughout the APE have been altered by the introduction of organic material for agricultural development; however, base soils are medium brown, fine-grained silty loam with a moderate content of subangular gravel. The Natural Resources Conservation Service classifies them as Holdaway silt loam, Kirkham silty clay loam, McBeth silt loam, Peteetneet-Holdaway complex, and Sunset loam.

Previous Surveys and Known Archaeological Resources

A detailed review of previous projects and known sites in the vicinity of the EIS study area is contained in the original survey report prepared by Certus (Ellis 2016). For the purpose of the current effort, Certus conducted a review update of the addendum APE on December 13, 2016, via the Preservation Pro system. This review was limited to the boundary of the addendum APE, as the entire area and beyond was already included in the original file search for the project.

The updated review confirmed that no previous cultural resource surveys have been conducted in the addendum APE. Additionally, no archaeological resources or historic structures have been reported.

Historical topographic maps and General Land Office maps for the area indicate the historical wall that once surrounded the early Payson settlement of the 1850s was located north of the main addendum survey block in Township 9 South, Range 2 East, Section 5. No other man-made structures or land uses are identified in the area. Historic air photos also do no depict any structures or notable land uses other than open agricultural fields.

PALEONTOLOGICAL CONSULTATION

Consultation with the Utah Geological Survey (UGS) regarding the presence/absence of and potential for encountering fossil resources in the project area was carried out as part of the original archaeological survey for the EIS (Ellis 2016). This consultation indicated that no known paleontological localities have been recorded in the project area, including the current addendum APE.

FIELD METHODS

Certus applied standard intensive-level archaeological survey methods accepted by the Utah State Historic Preservation Officer (SHPO) and the UDOT. UDOT guidelines call for a 45-year age cutoff for considering resources historical—an effort to accommodate a time lag between the compilation of the survey data and actual construction associated with the undertaking. Given the

timing of the survey in late 2016, Certus employed a cutoff date of 1972 to designate resources as historical.

Sheri Murray Ellis of Certus inventoried the APE by transects spaced no more than 15 meters (50 feet) apart across the survey area. Navigation within the survey area was accomplished using a hand held GPS unit capable of sub-meter accuracy, aerial maps, and visual landmarks. Archaeological resources encountered during the survey were documented on Intermountain Antiquities Computer System (IMACS) site forms with accompanying digital photographs. Locational information was obtained using a handheld GPS unit capable of sub-meter accuracy.

FINDINGS

Certus identified two archaeological sites and one isolated occurrence in the APE as a result of the field inventory. The sites are a portion of the Denver & Rio Grande Western (D&RGW)/Tintic Range Railway (site 42UT001194) and part of the field ditch network of the Bamberger Ditch System (site 42UT001722). The locations of the sites and isolated occurrence are depicted in **Figure 4**, and descriptions of each are provided below.

Isolated Occurrences

One isolated occurrence was documented in the APE. A description of the isolate is provided below.

Isolated Occurrence 1 (IO-01)

IO-01 is a collection of historical farm equipment stored along a fenceline in an agricultural field. The equipment includes a manure spreader, a wagon, a seeder, a tumbler, and components of other discarded machinery. The machinery appears to date to the late 1800s and early 1900s. Isolated occurrences are, by definition, ineligible for the National Register of Historic Places (NRHP).



IO-01. Farm equipment

Archaeological Sites

As noted above, Certus identified two archaeological sites in the APE. Descriptions of the sites are provided below.

Site 42UT001194, Denver & Rio Grande Western Railroad/Tintic Range Railway

Site 42UT001194 is the Denver & Rio Grande Western Railroad (D&RGW) Tintic Railway corridor. It extends into the addendum survey area along the west side of Interstate 15. Certus documented 2.5 miles of the rail site as part of the original surveys for the interchange EIS (Ellis 2016). This included the portions of the site extending through the current addendum survey areas. As such, no additional documentation was required as part of the addendum survey effort.

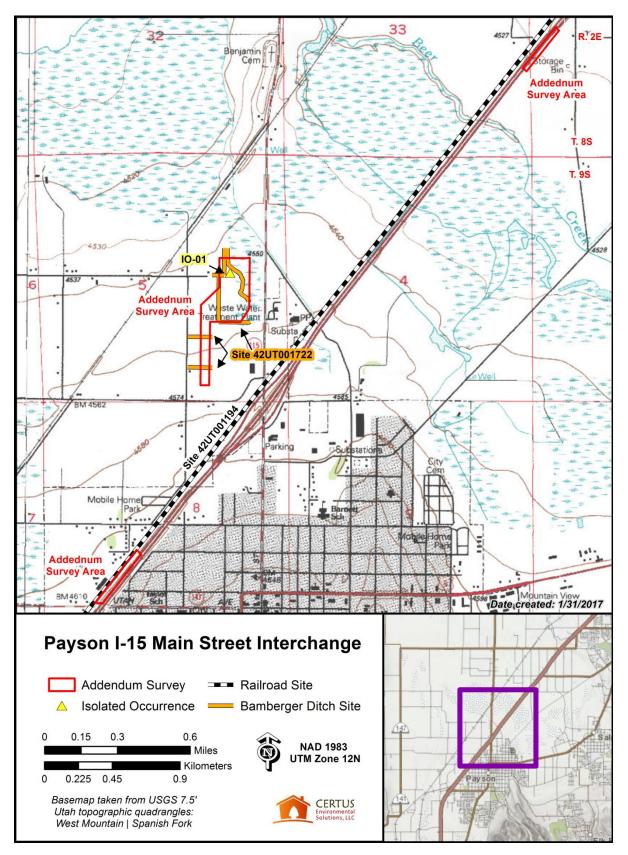


Figure 4. Addendum survey results; topographic map

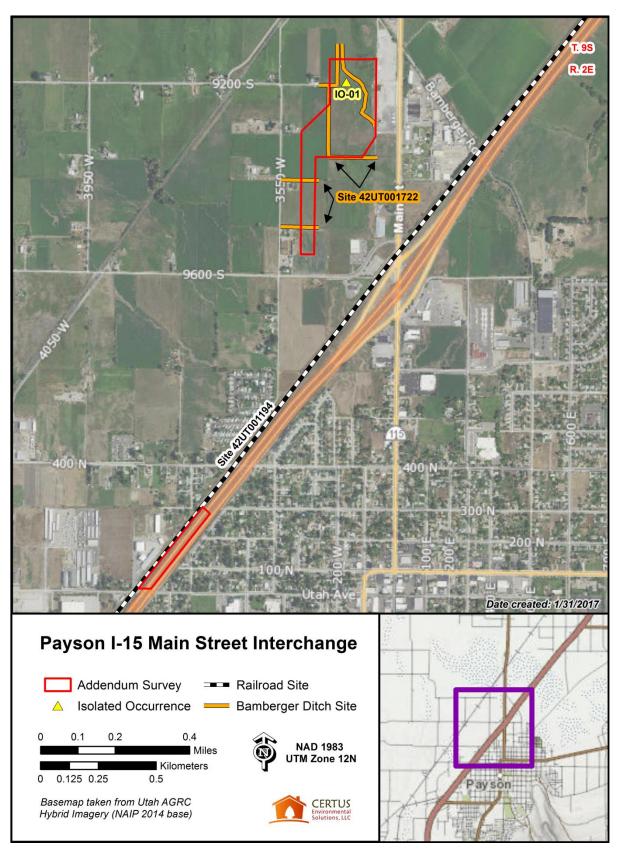


Figure 5. Addendum survey results; air photo map

The segment of the railroad in the current survey area was originally part of the Tintic Range Railway, which was completed between Springville and Silver City in 1892 (Robertson 1986:289). This rail line served to transport ore from the mines in Silver City, Mammoth, and Eureka to the main Rio Grande Western Railroad at Springville. The railroad was merged into the Denver & Rio Grande Western Railroad system in August 1908 (Robertson 1986:289). It appears the line was abandoned sometime prior to 1995.



Site 42UT001194; D&RGW railroad in the addendum APE

NRHP Considerations for Site 42UT001194: As a whole, the Denver & Rio Grande Western Railroad

Tintic Range Railway has been determined eligible for the NRHP under Criterion A as a result of much previous documentation of segments of the rail line. Specific segments or features have also been determined eligible under Criterion C. Certus recommended the portion of the railroad documented as part of the original EIS survey effort, including those sections extending into the current addendum survey area, be considered to contribute to the overall site as being eligible for the NRHP under Criterion A.

Site 42UT001722, Bamberger Ditch System

Site 42UT001722 is the Bamberger Ditch system. The site was first documented in 2009 by Earth Touch as part of improvements to Interstate 15 (Billat and Billat 2009c). Certus documented numerous additional components of this ditch network as part of surveys for the I-15 Payson Main Street Interchange EIS. In total Certus reported 7.3 miles of the Bamberger Ditch system as part of that effort (Ellis 2016). Most of the documented components comprise lateral field ditches, though a portion of the main ditch was documented.

As part of the current survey effort, Certus identified numerous additional lateral field ditches associated with the Bamberger Ditch System (site 42UT001722). These



Site 42UT001722; Bamberger Ditch; typical ditch channel in the addendum APE; view to the east

ditches are all unlined (i.e., earthen) and average roughly 3-4 feet wide and 1-2 feet deep. Some segments of the lateral ditches have become deflated and are wider and shallower than others. In total, Certus documented an additional 1,542 linear meters of lateral ditches. Additionally, Certus identified one historical feature along the newly documented portion of the field ditch network. This feature is a combination of an abandoned concrete turnout frame and a steel and concrete guzzler pipe. This feature is located at the intersection of several fences demarcating individual agricultural fields in the southeastern portion of the addendum survey area.

No specific date of construction was located for the Bamberger Ditch system, though it likely dates to the pre-1900 settlement period of Payson. It is clear the system is of historical age, as segments of the network can be deciphered on a 1946 aerial photograph of the area. The system, which is fed by Peteetneet Creek, was likely renamed for the Bamberger Railroad line built next to the main ditch in the early 1800s.

NRHP Considerations for Site 42UT001722: Site 42UT001722—the Bamberger Ditch System—was <u>recommended eligible for the NRHP under Criterion A</u> as a result of the documentation by Certus for the Interchange Project EIS (Ellis 2016). The components of the system documented as part of this addendum survey would be considered contributing to that eligibility, as they retain integrity of location, design, materials, workmanship, setting, feeling, and association.

SUMMARY AND CONCLUSIONS

Certus conducted an addendum intensive-level archaeological inventory for the I-15 Payson Main Street Interchange Project in Payson, Utah County, Utah, in support of UDOT's proposed interchange improvements. The assessment was an intensive-level archaeological survey; no historical buildings or structures are located in the addendum survey area or on lands intersected by the addendum survey area.

The archaeological inventory resulted in the identification of two archaeological sites and one isolated occurrence. The archaeological sites comprise additional sections of the D&RGW/Tintic Range Railway (site 42UT001194) and several segments and one historical feature of the lateral field ditch network of the Bamberger Ditch System (site 42UT001722). Site 42UT001194 as a whole was previously determined eligible for the NRHP. The segments in the addendum survey area contribute to that eligibility. Site 42UT001722 was recommended eligible for the NRHP as a result of documentation prepared during the original survey for the interchange project (Ellis 2016). Certus recommends the components of the site documented during this addendum survey effort be considered contributing to the eligibility of the site under Criterion A.

Anticipated effects on the historic properties from the proposed interchange project were not known to Certus at the time of this report. Those effects will be assessed by UDOT and documented in a determination of eligibility and finding of effect (DOE-FOE) letter.

REFERENCES CITED

Ellis, Sheri Murray

2016 An Archaeological Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah. Certus Environmental Solutions, Salt Lake City. Submitted to the Utah Department of Transportation, Region Three.

Utah Department of Transportation (UDOT)

2010 UDOT Guidelines for Identifying, Recording, and Evaluating Archaeological and Paleontological Resources. Utah Department of Transportation, Environmental Services, Salt Lake City.

APPENDIX B

TECHNICAL REPORTS

SELECTIVE RECONNAISSANCE-LEVEL HISTORIC STRUCTURES ASSESSMENT FOR THE INTERSTATE 15 PAYSON MAIN STREET INTERCHANGE ENVIRONMENTAL IMPACT STATEMENT, UTAH COUNTY, UTAH

Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah REVISED FINAL

UDOT Project No. F-I15-6(214)251; PIN 10263

Prepared for

The Utah Department of Transportation and H.W. Lochner, Inc.

Prepared by

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Certus Environmental Solutions, LLC Salt Lake City, Utah 801.230.7260

Utah Antiquities Project No. U-14-HY-1270ps PLPCO Permit No. 47

Certus Project Number LOCH08

October 26, 2015

PROJECT ABSTRACT SHEET

Report Title: Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project Number and Name: F-I15-6(214)251; Payson Interchange EIS; PIN 10263

Utah State Project Number: U-14-HY-1270ps

Project Description: The Utah Department of Transportation (UDOT) is considering improvements to Interstate 15 interchange at Main Street in Payson, Utah. These improvements may include changes to the existing interchange configuration or relocation of the interchange. The UDOT is preparing an EIS to evaluate alternatives for the interchange improvements.

Area of Potential Effects: The area of potential effects (APE) was established as a large, irregularly shaped polygon surrounding the existing interchange and encompassing all areas wherein a potential new interchange and associated new connector roads may be located. This APE, which contains approximately 770 hectares (1,902 acres), includes those areas where physical ground disturbance, property acquisition, and proximal visual impacts may occur. The survey area is equal to the APE.

Agencies: Utah Department of Transportation; Payson City; U.S. Army Corps of Engineers; Federal Highway Administration

Location: Payson City, Utah County

Land Ownership: Private, UDOT, Municipal

Date(s) of Fieldwork: December 9-12, 2014; September 2, 2015

Methods: Selective reconnaissance-level buildings inventory and intensive-level archaeological survey (to be reported under separate cover).

Acres Surveyed for Historic Buildings: 798 hectares (1,970 acres)

Properties with Historic Structures Recorded: 209 (see Table S1, below)

NRHP Eligible Structures: 114 (see Table S1, below)

Table S1. Summary of Historic Structures and National Register Eligibility Recommendations

	Eligible for the NRHP	
35 N. 100 E.	57 W. 200 N.	8741 S. 3200 W.
149 N. 100 E.	558 W. 200 N.	2 N. Main St. ¹
175 N. 100 E.	90 N. 200 W.	3-5 N. Main St.
209 N. 100 E.	596 N. 300 E.	10 N. Main St.
235 N. 100 E.	60 E. 300 N.	50 N. Main St.
48 E. 100 N.	488 W. 300 N.	95 N. Main St.
123 E. 100 N.	520 W. 300 N.	?183 N. Main St.
171 E. 100 N.	610 W. 300 N.	215 N. Main St. ²
197 E. 100 N.	708 W. 300 N.	218 N. Main St. ²
240 E. 100 N.	787 W. 300 N.	248 N. Main St. ²
280 E. 100 N.	25 E. 400 N. ¹	280 N. Main St. ¹
315 E. 100 N.	59 E. 400 N.	281 N. Main St. ¹
54 W. 100 N.	99 E. 400 N.	291 N. Main St. ¹
228 W. 100 N.	101 E. 400 N.	297 N. Main St. ¹
586 W. 100 N.	98 W. 400 N.	330 N. Main St. ¹
70 W. 100 S.	108 W. 400 N.	335 N. Main St. ¹
96 W. 100 S.	394 W. 400 N.	340 N. Main St. ¹
43 N. 100 W.	660 W. 400 N.	341 N. Main St. ¹
89 N. 100 W.	791 W. 400 N.	347 N. Main St. ¹
171 N. 100 W.	331 N. 400 W.	350 N. Main St. ¹
189 N. 100 W.	665 N. 500 E.	360 N. Main St. ¹
192 N. 100 W.	806 N. 500 E.	363 N. Main St. ¹
252 N. 100 W.	808 N. 500 E.	395 N. Main St. ¹
255 N. 100 W.	81 E. 500 N.	413 N. Main St. ¹
280 N. 100 W.	591 E. 500 N.	443 N. Main St. ¹
285 N. 100 W	85 W. 500 N.	446 N. Main St.
327 N. 100 W.	90 W. 500 N.	447 N. Main St. ¹
337 N. 100 W.	145 N. 600 E.	452 N. Main St.
340 N. 100 W.	210 N. 600 E.	485 N. Main St. ¹
345 N. 100 W.	290 N. 600 E.	495 N. Main St. ¹
347 N. 100 W.	619 N. 600 E.	496 N. Main St. ¹
349 N. 100 W.	95 N. 600 W.	511 N. Main St. ¹
80 S. 100 W.	325 N. 600 W.	550 N. Main St.
75 E. 200 N.	395 N. 600 W.	581 N. Main St.

¹ Listed as part of Payson Historic District ² Listed individually and as part of Payson Historic District

Table S1. Summary of Historic Structures and National Register Eligibility Recommendations

	Eligible for the NRHP (Continued)	
625 N. Main St.	2232 W. SR-198	640 W. Utah Ave.
2204 W. SR-198	85 E. Utah Ave. ¹	652 W. Utah Ave.
2218 W. SR-198	70-98 W. Utah Ave. ¹	858 W. Utah Ave.
?2224 W. SR-198	596 W. Utah Ave. ¹	868 W. Utah Ave.
	Not Eligible for the NRHP	
145 N. 100 E.	94 W. 200 N.	37 E. 500 N.
189 N. 100 E.	544 W. 200 N.	61 E. 500 N. ³
327 N. 100 E.	547 W. 200 N.	158 N. 600 E.
389 N. 100 E.	562 W. 200 N.	179 N. 600 E.
190 E. 100 N.	115 N. 300 E.	191 N. 600 E.
208 E. 100 N.	590 N. 300 E.	371 N. 600 E.
297 E. 100 N.	47 E. 300 N.	103 N. 600 W.
64 W. 100 N.	75 E. 300 N.	297 N. 600 W.
180 W. 100 N.	590 E. 300 N.	308 N. 600 W.
560 W. 100 N.	42 W. 300 N.	326 N. 600 W.
596 W. 100 N.	43 W. 300 N.	340 N. 600 W.
625 W. 100 N.	62 W. 300 N.	343 N. 600 W.
31 N. 100 W.	535 W. 300 N.	8678 S. 3200 W.
101 N. 100 W.	559 W. 300 N.	6 N. Main St.
153 N. 100 W.	571 W. 300 N.	39 N. Main St.
209 N. 100 W.	40 E. 400 N.	40 N. Main St.
260 N. 100 W.	84 W. 400 N.	54 N. Main St.
265 N. 100 W.	412 W. 400 N.	67 N. Main St.
309 N. 100 W.	630 W. 400 N.	309 N. Main St. ³
314 N. 100 W.	635 W. 400 N.	310 N. Main St. ³
350 N. 100 W.	638 W. 400 N.	410 N. Main St.
375 N. 100 W.	643 W. 400 N.	420 N. Main St.
391 N. 100 W.	682 W. 400 N.	448 N. Main St. ³
20 S. 100 W.	696 W. 400 N.	451 N. Main St. ³
30 S. 100 W.	698 W. 400 N.	467 N. Main St.
?43 S. 100 W.	785 W. 400 N.	540 N. Main St.
52 S. 100 W.	377 N. 400 W.	543 N. Main St.
61 S. 100 W.	383 N. 400 W.	1766 W. SR-198
585 E. 200 N.	602 N. 500 E.	?2300 W. SR-198
60 W. 200 N.	645 N. 500 E.	2466 W. SR-198

¹ Listed as part of Payson Historic District ³ Listed as part of Payson Historic District but recommended ineligible due to subsequent changes

Table S1. Summary of Historic Structures and National Register Eligibility Recommendations

Not Eligible for the NRHP (continued)			
26 W. Utah Ave.	60 W. Utah Ave. ³	820 W. Utah Ave.	
36 W. Utah Ave. ³	115 W. Utah Ave.		

³Listed as part of Payson Historic District but recommended ineligible due to subsequent changes

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Introduction

The Utah Department of Transportation (UDOT), in conjunction with the Federal Highway Administration (FHWA) is evaluating potential improvements to the Interstate 15 interchange at Main Street in Payson, Utah (**Figure 1**). The improvements may include changes to the existing interchange and/or construction of a new interchange at a different location. Alternatives to address the project purpose and need are being evaluated in an environmental impact statement (EIS). The project is hereafter referred to as the Interchange Project or the I-15 Payson Main Street Interchange Project.

H.W. Lochner, Inc. (Lochner) is assisting UDOT with environmental studies for the Interchange Project. Lochner contracted with Certus Environmental Solutions, LLC (Certus) to conduct an assessment of cultural resources in the area of potential effects for the proposed project. Both archaeological and architectural/structural assessments will be completed. The results of the archaeological inventory will be reported under separate cover.

Sheri Murray Ellis, Principal Investigator for Certus under State of Utah Principal Investigator Permit No. 47 and architectural historian, conducted fieldwork for the project December 9-12, 2014. All work was carried out under Utah State Antiquities Project No. U-14-HY-1270ps.

THE AREA OF POTENTIAL EFFECTS AND SURVEY AREA

The project area is located in the community of Payson in Utah County, Utah (see **Figure 1**). Implementation of the project, whether reconstruction of the existing interchange or construction of a new interchange, would require ground disturbance up to several feet deep and would necessitate acquisition of new right-of-way as well as temporary construction easements. Historical structural properties in the footprint of the final interchange improvements would need to be demolished or relocated. Additional historical structural properties adjacent to the final project site may be indirectly affected by visual intrusion.

The area of potential effects (APE) for the reconstruction was defined as a large irregularly shaped polygon encompassing the existing interchange and surrounding lands where alternatives are being considered in the EIS and where physical and proximate impacts could affect historic properties (see **Figures 2 and 3**). The APE as defined here encompasses all anticipated ground disturbance, possible right-of-way acquisition, temporary construction easements, and proximal effects. In total, the APE encompasses approximately 798 hectares (1,970 acres). The survey area is equal to the APE.

The APE/survey area is located in Township 8 South, Range 2 East, Sections 32-34 and Township 9 South, Range 2 East, Sections 3-5 and 8-10 on USGS 7.5' topographic quadrangles West Mountain, Utah and Spanish Fork, Utah (see **Figures 2 and 3**). Lands on which the undertaking would occur are owned by Payson City, UDOT, and private parties.

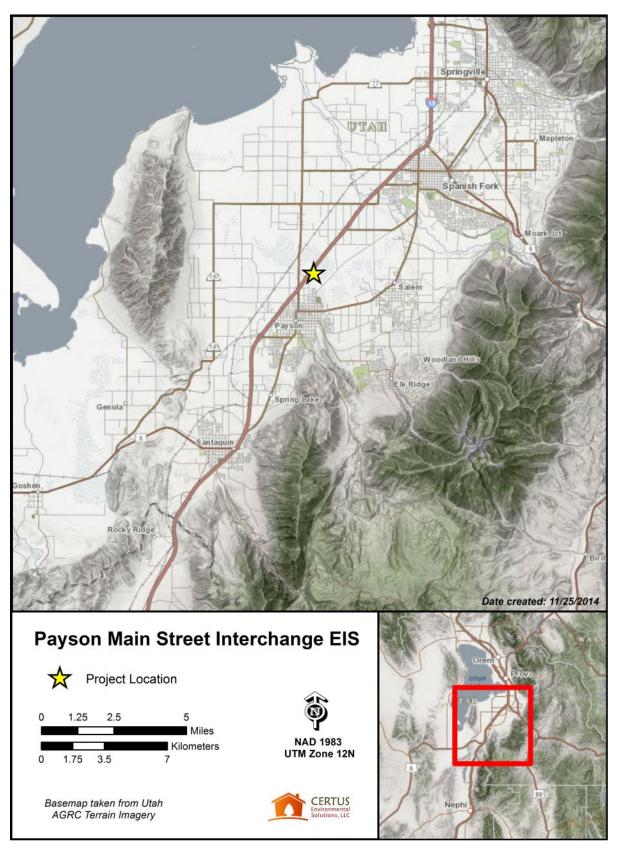


Figure 1. General project location; I-15 Payson Main Street Interchange Project

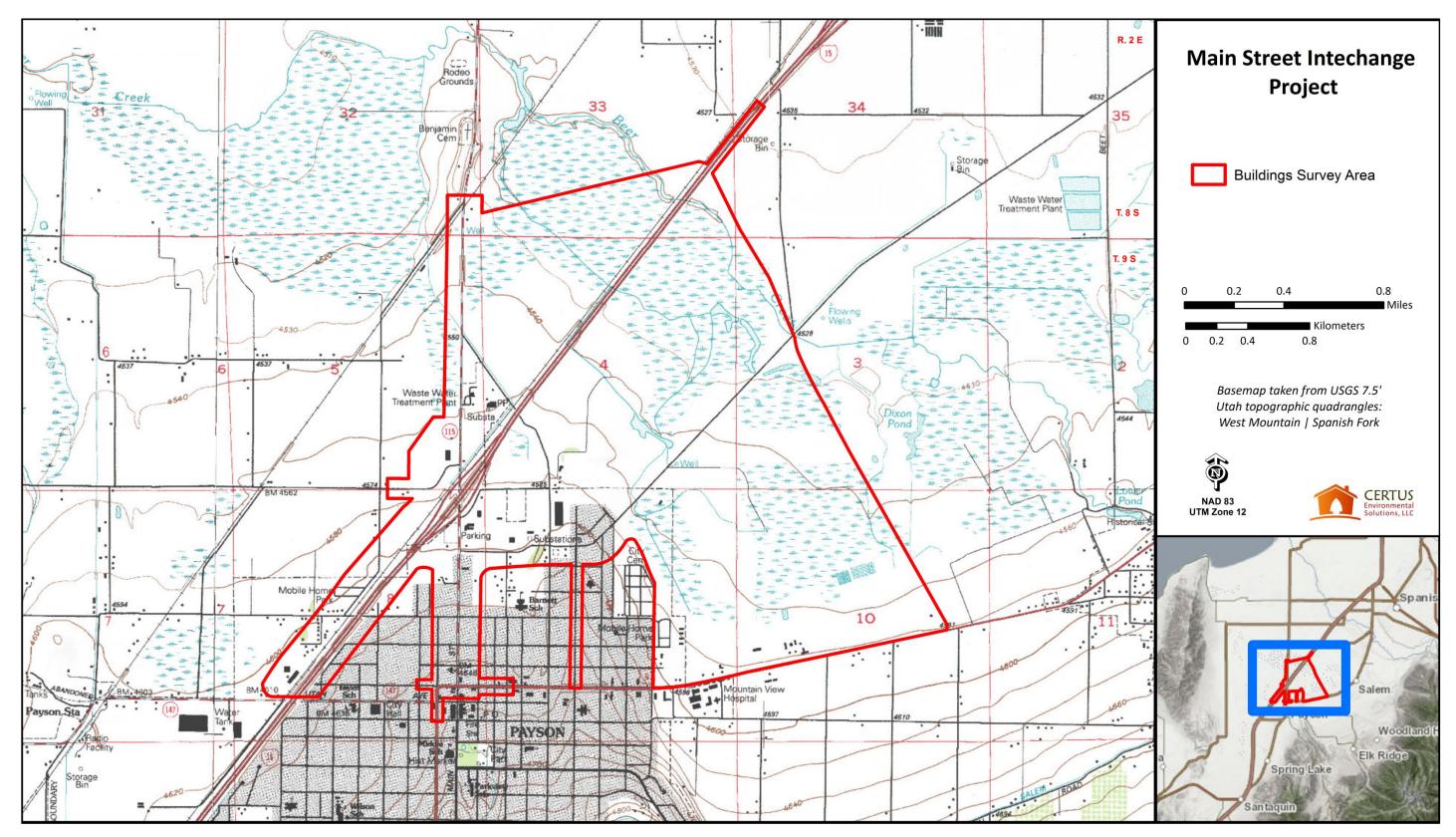


Figure 2. APE/Survey Area; I-15 Payson Main Street Interchange Project

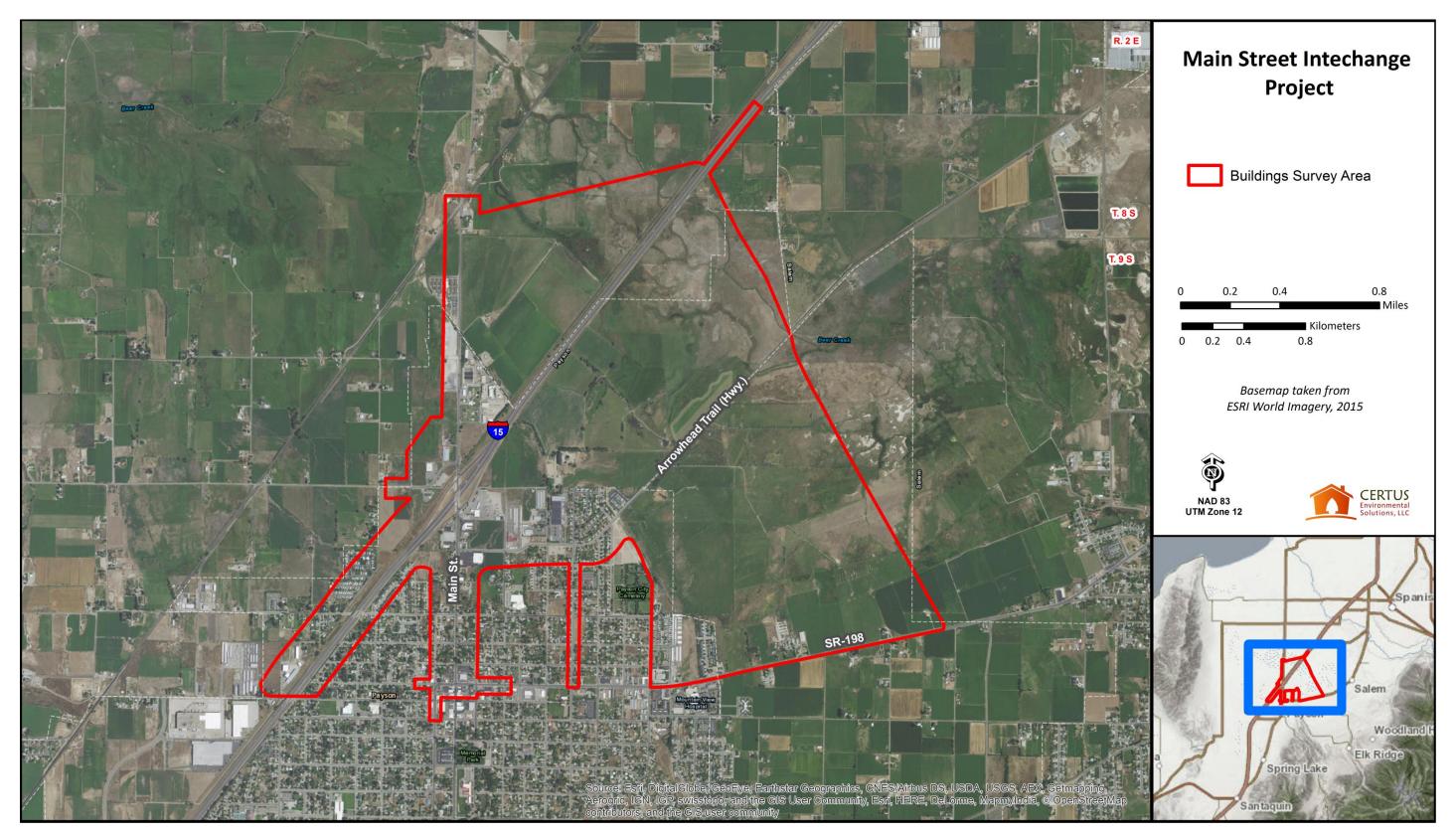


Figure 3. APE/Survey Area; I-15 Payson Main Street Interchange Project

PROJECT SETTING

The APE/survey area encompasses portions of both the developed core area of Payson and the rural agricultural lands surrounding the community. Lands in the northern and eastern portions of the APE/survey area are almost exclusively undeveloped, comprising open agricultural fields (both active and fallow), grazing pastures, and scattered historical and modern farmsteads. The southern portion of the APE/survey area is dominated by a combination of historical and modern residential and commercial development, while the western part of the area is a mix of residential, agricultural, and industrial uses. The core area of historical development extends along the Main Street portion of the APE/survey area.

The built environment within the APE/survey area reflects a broad range of development in Payson. The earliest structures in the area are from the late 1800s, while the most recent date to the last few years. Teardown projects wherein historical structures were demolished to accommodate the construction of new structures appear relatively common throughout the area. Major periods of development appear to have occurred in the early 1900s (1900-1930) and in the post-World War II period.

Previous Resource Surveys and Known Historical Structures

Certus conducted a file search on December 8, 2014, for areas within the boundaries of the APE/survey area. The primary file search took place via the Utah State Historic Preservation Office (SHPO) online system, Preservation Pro, but was supplemented by a review of hard copy records held at the SHPO offices in Salt Lake City.

The file search indicates that several hundred historical structures have been previously documented in Payson; several dozen of these buildings are located in the current APE/survey area. This documentation appears to have resulted primarily from a community-level reconnaissance survey conducted in 2007 and carried out in support of the National Register listing of the Payson Historic District. Within the current APE/survey area, most of the previously documented properties are located along Main Street and Utah Avenue. Many, but not all, are included in the historic district listing. Due to the amount of time since the last documentation of historical structures in the APE/survey area, Certus revised all previously documented historical structures and updated their records.

HISTORIC OVERVIEW

The following brief overview of the history of the Payson City area is meant to provide a basic context within which to consider the relative significance of historic structures encountered during the assessment of the Main Street Interchange Project APE. This context is derived heavily from the Payson Historic District National Register nomination form (Broschinsky 2007).

Payson was permanently settled by Euro-Americans in the early 1850s, when Mormon pioneers were sent to the area with direction to establish a settlement (Broschinsky 2007). Subsistence agriculture formed the basis of the early economy, with homes located near the center of the settlement and communal and individual agricultural fields located around the periphery. The first

buildings in the area were constructed of locally available logs and adobe. As saw mills, a nail factory, and similar enterprises were established, the initial makeshift homes gave way to more substantial structures. By the mid-1860s the population of Payson had already risen to nearly 1,140 residents, and the number of dwellings was approaching 300 (Broschinsky 2007).

Change came to Payson in 1875 with the completion of the Utah Central Railroad through the community. Ultimately connected to the larger Transcontinental Railroad, the Utah Central Railroad connected Payson directly to national landscape for the first time in the community's history. Not only were new markets available for locally produced products, but goods from across the nation were now far more accessible to Payson residents. The rail connection boosted the local economy, which in turn drove construction of additional building stock. The number of commercial structures increased substantially, and a commercial district formed at the center of town. As brick became more widely available in Payson, earlier wooden storefronts in the commercial district were replaced with brick façades. Not surprisingly, most commercial structures, as well as most dwellings, constructed during at this time and over the next 15 years heavily reflected Victorian architectural styles also common throughout Utah and the rest of the nation.

In 1882, the town embarked on a major undertaking to improve the community's infrastructure. Over the next 10 years, dirt roads were realigned and graveled, water mains were improved, and electric lights were installed, among other improvements (Broschinsky 2007).

As the 1800s came to a close, Payson experienced an economic boom created by the availability of wage employment from several large, regional projects, including the massive Strawberry Irrigation Project and the Orem Railroad (Broschinsky 2007). This infusion of money led to an increase in the number of "elaborate high-Victorian" buildings that were constructed in Payson (Broschinsky 2007). By 1900, the population of Payson had risen to 2,636 residents and a diversification of the town's cultural and ethnic complexion. The commercial district continued to thrive and a number of large scale public buildings, such as the iconic Peteetneet School, were constructed around this time.

The first few decades of the 1900s in Payson are notable for the transformation in the community's architectural stock from Victorian designs to early American styles, such as Bungalow and Period Cottage structures (Broschinsky 2007). Of particular note for Payson for this period are an atypically high number of "extra-wide" Bungalows (Broschinsky 2007). The proliferation of interurban railroads and the increased agricultural productivity resulting from the Strawberry Irrigation Project served as the basis of a booming economy that fostered new housing and commercial development. Between 1910 and 1920 the number of dwellings increased by approximately 50 percent, and by the mid-1920s, Payson's Main Street commercial district boasted more than 60 businesses (Broschinsky 2007).

The onset of the Great Depression at the end of the 1920s served to slow the economy of Payson, as it did with communities across America. Heavily reliant on sales of agricultural products, Payson's economy suffered greatly; although the sugar beet industry, a major component of the local agricultural industry, remained surprisingly stable. Despite the downturn, however, the local government continued to invest in community development, at times leveraging labor and funding available through federal New Deal programs. Concrete sidewalks, rock-lined ditches, sewer system upgrades, and changes to school athletic fields and community parks were all part of the improvements implemented during the 1930s and early 1940s in Payson (Broschinsky 2007).

Architecturally, this period represents the slow decline in the popularity of Early American styles and the rise in popularity of mid-century forms such as World War II Era Cottages (Broschinsky 2007). The transition was somewhat protracted; thus, the building stock from this period shows a relatively high diversity of forms as the transition occurred.

The onset of World War II had an immediate and boosting effect on the national economy, including that of Payson. The wartime demand for agricultural products fostered the shift from small family farms to consolidated commercial agribusiness. With economic vitality once again came an increase in new construction and investment in community infrastructure. As most of the core are of Payson had been built upon by this time, larger town lots began to be subdivided and new subdivisions, many comprising street upon street of similar Ranch houses, sprang up around the fringes of the developed townsite. The rise of the automobile culture after World War II further served to change the complexion of the community as residents could live further and further away from the town proper. Construction of new roads and expansion of existing roads to accommodate increased automobile traffic transitioned the look of Payson into the modern urban city it is today.

As the post-war period wore on, a rise in multi-family housing, infill projects, the continued evolution of the Ranch form, and the rise of newer split level house forms all came to Payson. This period also saw a large number of renovations to historical storefronts along Main Street to "update" these commercial properties to more current styles.

FIELD METHODS

Certus applied the methods outlined in the 2012 Utah SHPO Standard Operating Procedures for selective reconnaissance-level buildings surveys as well as the applicable components of the UDOT cultural resource inventory guidelines (UDOT 2010, as updated). Pursuant to the guidelines for selective reconnaissance-level surveys, Certus only documented those buildings identified as dating to the historic period historic; modern buildings were not documented. Age of construction for each primary building was derived from a combination of estimation based upon architectural characteristics, records from prior documentation, and information obtained from the Utah County Assessor.

UDOT guidelines call for a 45-year age cutoff for considering resources historical—an effort to accommodate a time lag between the compilation of the survey data and actual construction associated with the undertaking. Given the timing of the field survey late in 2014, Certus employed a cutoff date of 1970 (using 2015 as the base year) to designate structures as historical.

Each primary historical building on each identified property was assessed for architectural type and style, historical integrity, and other basic architectural details. Each property was photographed using a digital camera set to a minimum resolution of 300 dpi, and photographic index sheets were produced. Upon acceptance by the Utah SHPO of the final historical buildings eligibility ratings, Certus will enter the relevant data for each documented property into the SHPO Preservation Pro online database system.

RESOURCE EVALUATION METHODS

In accordance with 36 CFR § 60, historical structures (and other cultural resources) documented as part of federal undertakings are to be evaluated for their eligibility for the NRHP under four specific criteria and with consideration for seven elements of integrity. A structure may be considered eligible for listing on the NRHP if it:

- A- is associated with events that have made a significant contribution to the broad patterns of our history; OR
- B- is associated with the lives of persons significant in our past; OR
- C- embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; OR
- D- has yielded, or may be likely to yield, information important in prehistory or history.

Structures considered potentially eligible under one of the above criteria are also to be evaluated for integrity of location, design, setting, materials, workmanship, feeling, and association. To be eligible for listing on the NRHP, a structure must possess integrity of those elements directly related to the criterion or criteria under which it would be determined eligible.

Utah-Specific Considerations for Buildings

In Utah, all historic buildings documented at a reconnaissance-level are also evaluated using a rating system established by the Historic Preservation program at the Utah SHPO. This rating system assigns one of four ratings to buildings based on the degree to which they retain historical and architectural integrity. These ratings are as follows:

- ES Eligible/Significant: built within the historic period and retains integrity; excellent example of a style or type; unaltered or only minor alterations or additions; individually eligible for the [NRHP] under criterion "C"; also buildings of known historical significance.
- EC Eligible/Contributing: built within the historic period and retains integrity; good example of a style or type, but not as well-preserved or well-executed as "ES" buildings; more substantial alterations or additions than "ES" buildings, though overall integrity is retained; eligible for [the NRHP] as part of a potential historic district or primarily for historical, rather than architectural, reasons.
- NC Ineligible/Non-Contributing: built during the historic period but has had major alterations or additions; no longer retains integrity.
- OP Ineligible/Out-of-period: constructed outside the historic period.

The interaction between the SHPO ratings system and the criteria of the NRHP focuses on NRHP Criteria A and C and SHPO ratings ES and EC. Buildings assigned a SHPO rating of "ES" are considered eligible for listing under NRHP both Criteria A and C (Giraud 2007). Buildings assigned a SHPO rating of "EC" are considered eligible for the NRHP under Criterion A only (Giraud 2007).

Historical Boundaries

To evaluate potential impacts to historic properties resulting from implementation of the proposed roadway improvements, appropriate historical boundaries must be established. National Register Bulletin 21, Defining Boundaries for National Register Properties (Seifert et al. 1997), offers guidance on how to establish such boundaries. The Bulletin offers the following recommendations for defining property boundaries associated with historical buildings:

- Select boundaries that encompass the entire resource, including both historic and modern additions. Include surrounding land historically associated with the resource that retains integrity and contributes to the property's historic significance.
- Use the legally recorded parcel number or lot lines for urban and suburban properties that retain their historic boundaries and integrity.
- For small rural properties, select boundaries that encompass significant resources, including outbuildings and the associated setting.
- For larger rural properties, select boundaries that include fields, forests, and open rangeland that is historically associated with the property and conveys the property's historic setting. The areas included must have integrity and contribute to the property's historic significance.

The APE for the Main Street Interchange Project is both urban and rural in nature. For the identified urban properties, the current legal boundaries for each parcel represent either the original historical boundaries or the sole remaining component of the original boundary as it is associated with the primary building. In these cases, current legal property boundaries were used to define the boundaries for most of the historic buildings in the APE. For rural properties (e.g., farmsteads) historical boundaries may include agricultural fields listed under separate parcel numbers from those containing the primary residence. In these cases, Certus made an effort to identify historically associated lands and include them in the definition of the historical boundary.

In certain cases, the property associated with a historical structure has lost, or otherwise does not possess, the ability to contribute to the historical integrity of the primary historical structure. For example, residential property that has been paved to create a parking lot to accommodate customer parking for a former residence converted to commercial use no longer contributes to the historical residential nature of the primary building. In these cases, the boundary for the purpose of assessing the effects of the undertaking was defined to only encompass those features of the property that contribute to understanding and evaluating its historical use.

FINDINGS

A total of 199 properties with historical structures were identified as a result of the selective reconnaissance-level survey for the Interchange Project. Additionally, the APE/survey area encompasses portions of the Payson National Register Historic District. The locations of the properties and the approximate boundaries of the historic district are illustrated on **Figures 4-8**, and descriptions of the properties are summarized in **Table 1**, below. Note that only those portions of the APE/survey area containing documented structures are depicted on the figures. Historical

landscape features were observed in the front yards of a few of the properties, and these features are noted in Table 1.

Not surprisingly, the majority of the historical buildings are located along Main Street and the blocks immediately adjacent to it. However, an additional concentration of historical structures was noted east and west of Interstate 15 near 400 North (west of I-15) and along 600 West (east of I-15).

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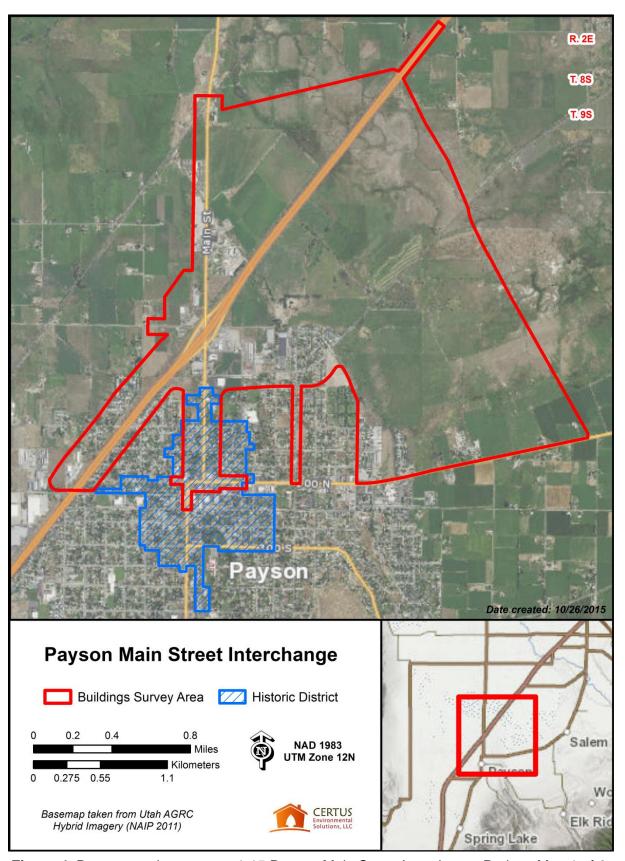


Figure 4. Documented resources; 1-15 Payson Main Street Interchange Project; Map 1 of 6

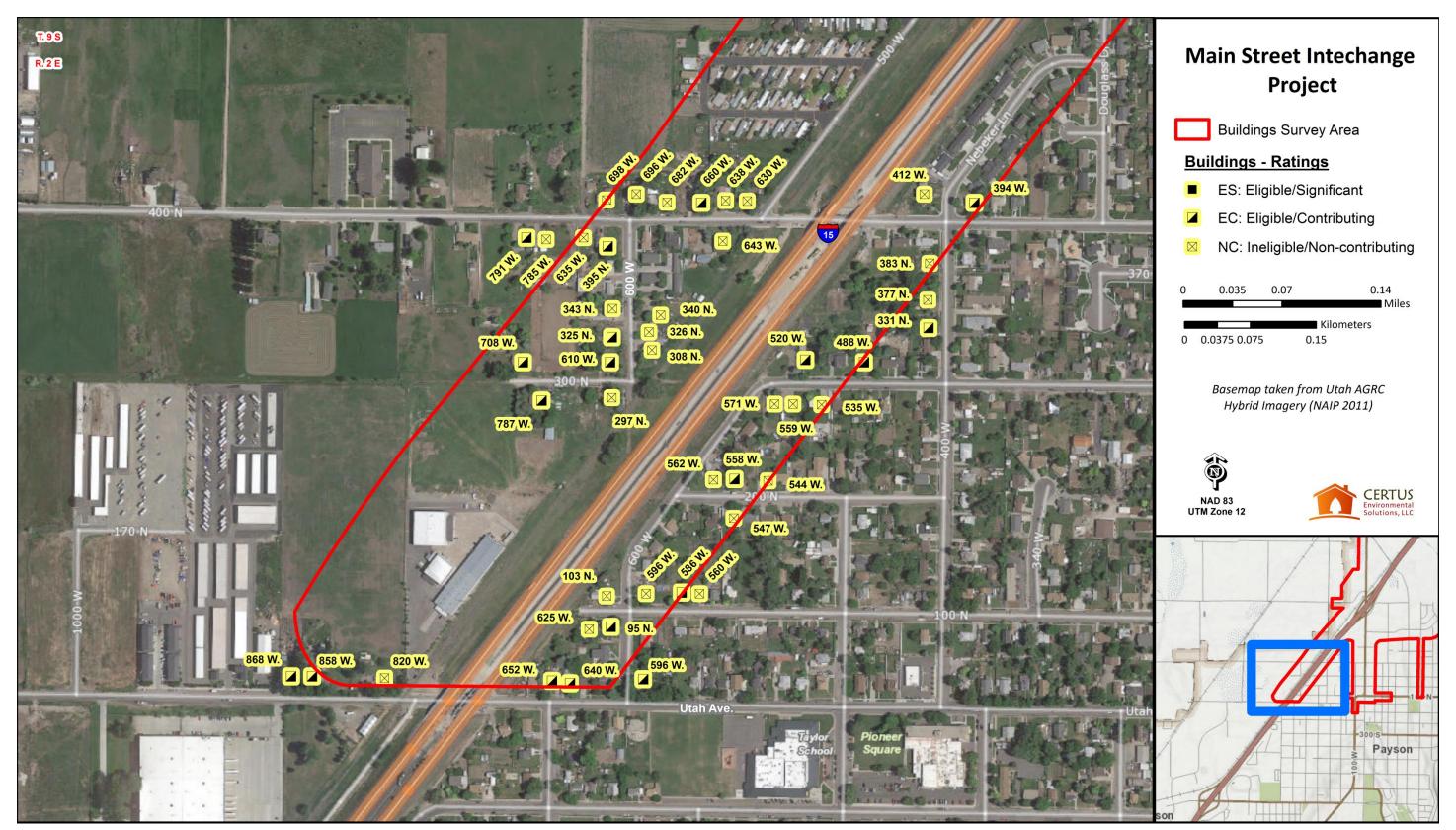


Figure 5. Documented resources; 1-15 Payson Main Street Interchange Project; Map 2 of 6

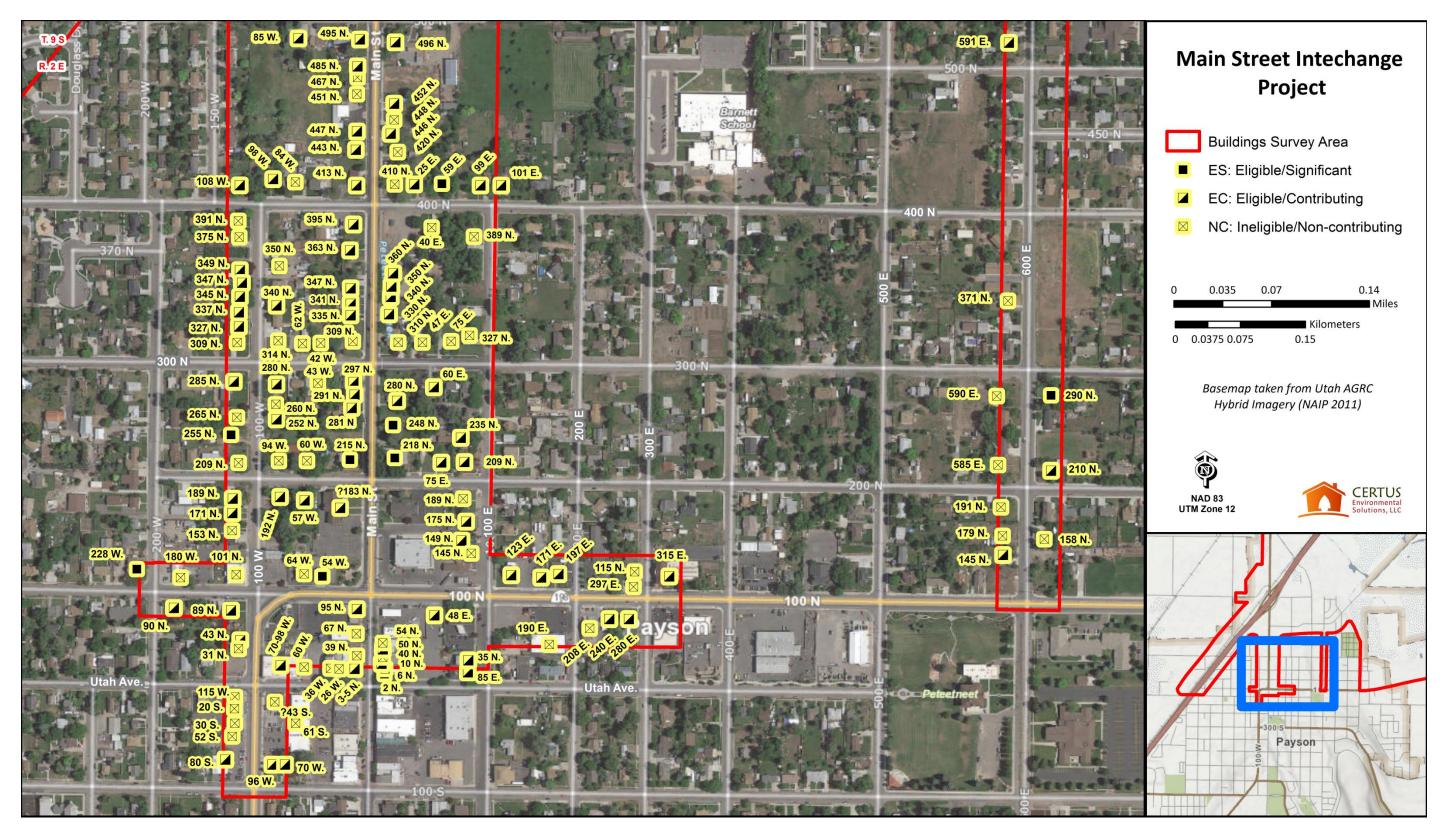


Figure 6. Documented resources; 1-15 Payson Main Street Interchange Project; Map 3 of 6



Figure 7. Documented resources; 1-15 Payson Main Street Interchange Project; Map 4 of 6

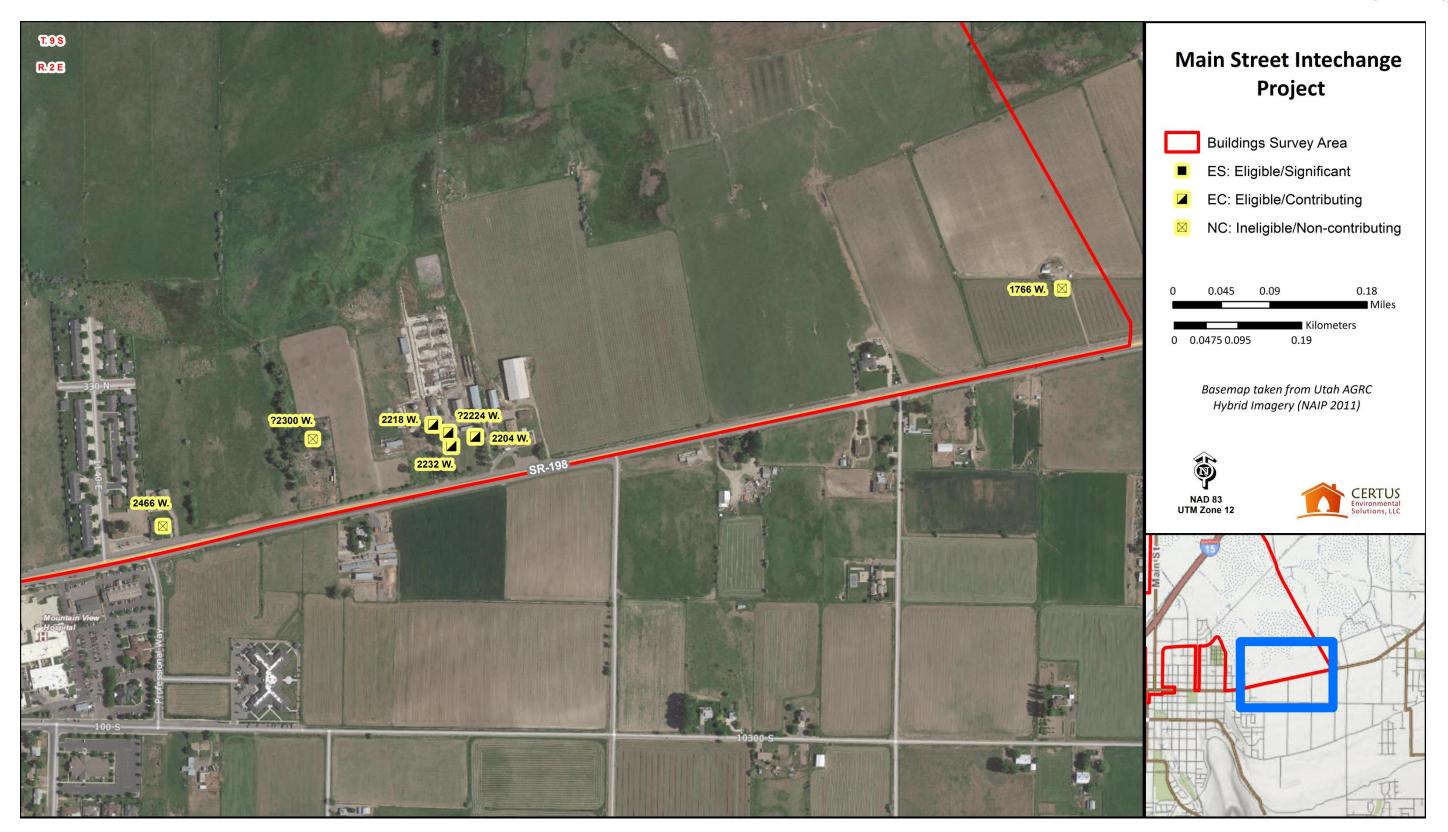


Figure 8. Documented resources; 1-15 Payson Main Street Interchange Project; Map 5 of 6

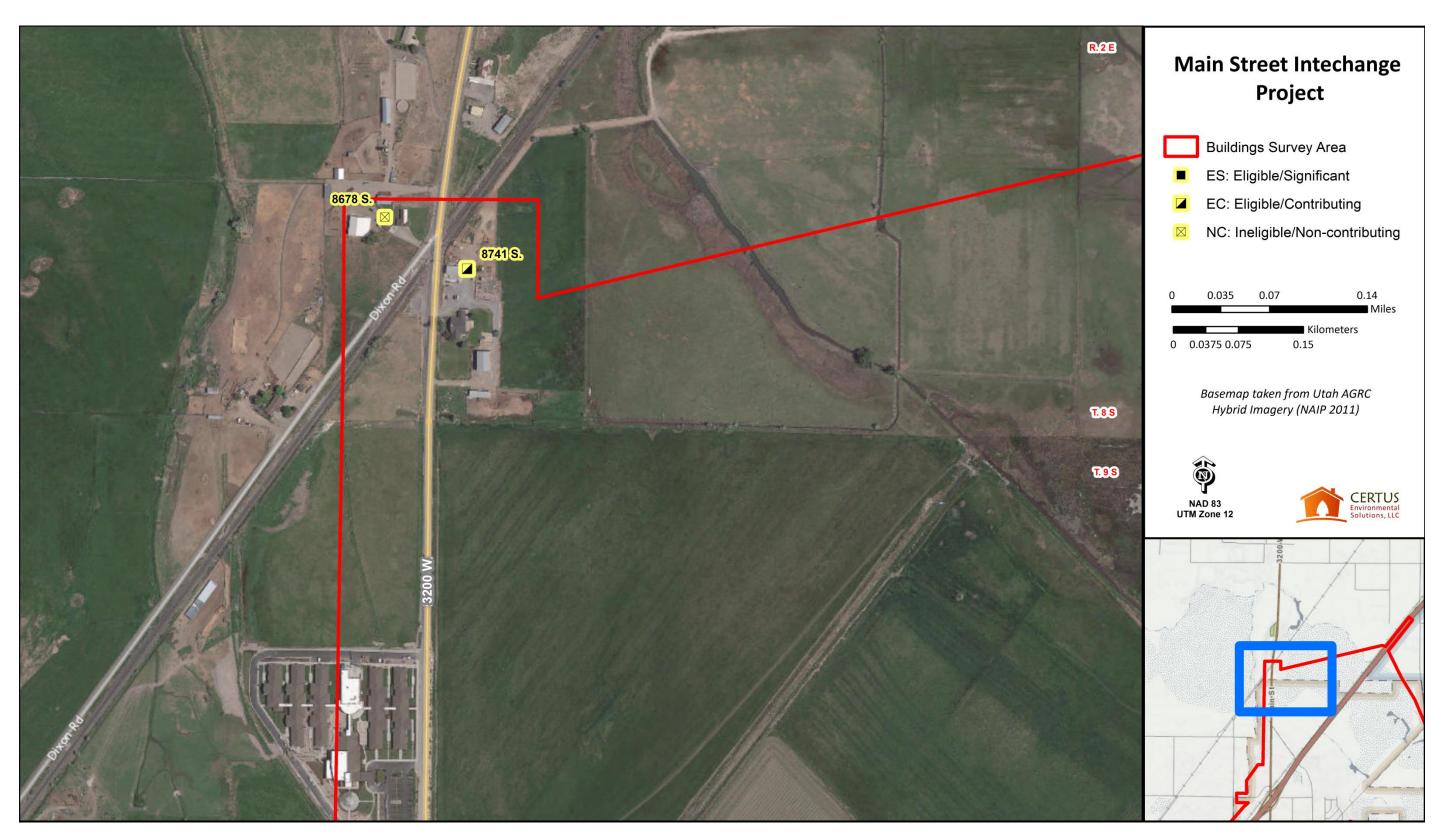


Figure 9. Documented resources; 1-15 Payson Main Street Interchange Project; Map 6 of 6

I-15 Payson Main Street Interchange EIS Structures Repo

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
35 N. 100 E.	c. 1930	2-story Apartment Block multi-family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and plaster. Alterations include modern windows throughout and enclosure of a 2 nd story doorway in the primary façade. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
145 N. 100 E.	c. 1950	1-story Other building of indeterminate function exhibiting Post-WWII: Other and Mansard styles. Clad in striated brick. Alterations include several modern windows and a temporary Mansard style awning. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
149 N. 100 E.	c. 1902	1-story Foursquare single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick. Alterations include an in-period rear addition, several modern windows, and the inperiod enclosure of one entryway. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
175 N. 100 E.	c. 1911	2-story Central Passage single family dwelling exhibiting Classical: Other style. Clad in historical plaster. Alterations include several modern windows, a few with minor changes to the openings, and several in-period rear additions. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
189 N. 100 E.	c. 1884	2-story Crosswing single family dwelling exhibiting Gothic Revival and Arts & Crafts styles. Clad in narrow aluminum siding. Alterations include an in-period Bungalow porch addition, modern windows throughout with some possible changes to openings, and the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
209 N. 100 E.	c. 1936	1.5-story Period Cottage single family dwelling exhibiting muted English Tudor Revival style. Clad in historic plaster and striated brick. Alterations include several modern windows and in-period rear additions. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
235 N. 100 E.	c. 1947	1-story Early Ranch single family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in asbestos siding. Alterations include modern windows throughout and an in-line addition clad in vinyl siding. One contributing and one non-contributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
327 N. 100 E.	c. 1920	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional and Late 20 th Century: Other styles. Clad in synthetic stucco and vinyl siding. Alterations include the remodel of the exterior with modern cladding and a carport addition. Two contributing and one noncontributing outbuilding were observed. Historic Boundary: N/A	NC/Ineligible	
389 N. 100 E.	c. 1857	William Wignall House. 1.5-story Central Passage single family dwelling exhibiting Classical: Other style. Clad in synthetic stucco. Alterations include the modern cladding and modern (faux divided light) windows throughout. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
48 E. 100 N.	c. 1950	Daley Freeze. 1-story Drive Through restaurant exhibiting Contemporary style. Clad in rock-faced concrete block. Alterations include several modern windows. No outbuildings were observed.	EC/Eligible	Daley free
		Historic Boundary: Current legal parcel boundary		
123 E. 100 N.	c. 1907	1.5-story Bungalow single family dwelling exhibiting Bungalow and Victorian Eclectic styles. Clad in regular brick and shingle siding. Alterations limited to several modern windows in original window openings. No outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
171 E. 100 N.	c. 1936	1-story Period Cottage single family dwelling exhibiting English Tudor Revival style. Clad in striated brick and synthetic stucco. Alterations include several modern windows in original window openings, minor use of synthetic stucco, and alteration of the porch landing and railing to create a wheelchair ramp. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
190 E. 100 N.	c. 1958	1-story Other Commercial/Public building exhibiting Late 20 th Century: Other style. Clad in synthetic stucco and concrete block. Alterations include a complete exterior remodel of cladding and windows. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
197 E. 100 N.	c. 1923	1-story Bungalow single family dwelling exhibiting Bungalow and Prairie School styles. Clad in regular brick. Alterations limited to several modern windows in original window openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
208 E. 100 N.	c. 1939	1-story Service Bay/Business exhibiting Other/Unclear style. Clad in concrete block and vinyl siding. Alterations include the vinyl siding and modern concrete block veneer. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
240 E. 100 N.	c. 1938	1.5-story Period Cottage single family dwelling exhibiting English Tudor Revival style. Clad in striated brick. Alterations include several modern windows in original window openings and alteration of the porch landing and railing. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
280 E. 100 N.	c. 1915	2-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and drop siding. Alterations include multiple in-period additions and several modern windows in original window openings. One contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
297 E. 100 N.	c. 1898	1-story Crosswing single family dwelling exhibiting Other/Unclear style. Clad in narrow vinyl siding. Alterations include modern windows in original window openings and use of the modern vinyl siding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
315 E. 100 N.	c. 1915	1-story Church building exhibiting Spanish Colonial Revival style. Clad in regular brick and cast concrete. Alterations include an out-of- period addition and several modern windows in original window openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
54 W. 100 N.	c. 1916	Strawberry Water Users Association building. 1- story 1-Part Block building exhibiting Federal Revival style. Clad in regular brick. No notable alterations. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	ES/Eligible	
64 W. 100 N.	c. 1939	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in synthetic stucco and regular brick. Alterations include multiple additions of indeterminate age, modern cladding, modern windows, and probable alteration of fenestration. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
180 W. 100 N.	c. 1949	1-story Shed exhibiting Other/Unclear style. Clad in corrugated metal. Alterations include enclosure of all windows and general disrepair. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
228 W. 100 N.	c. 1898	1.5-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick. Alterations limited to a small carport addition and several modern windows. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	ES/Eligible	
560 W. 100 N.	c. 1927	1-story Bungalow single family dwelling exhibiting Bungalow and Late 20 th Century: Other styles. Clad in synthetic stucco and stone veneer. Alterations include a complete exterior remodel, including modern cladding and windows and metal roofing. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
586 W. 100 N.	c. 1930	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in tongue-and-groove siding. Alterations include modern windows throughout, a carport addition, and inperiod additions. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
596 W. 100 N.	c. 1920	1-story Bungalow single family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in narrow vinyl siding. Alterations include the modern cladding and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
625 W. 100 N.	c. 1949	1-story WWII-Era Cottage exhibiting Other style. Clad in concrete block. Alterations include a large carport addition and modern windows throughout. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	TRANK OF THE PROPERTY OF THE P

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
70 W. 100 S.	c. 1924	1-story Period Cottage single family dwelling exhibiting Tudor Revival style. Clad in striated brick. Alterations include several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
96 W. 100 S.	c. 1920	1-story Bungalow single family dwelling exhibiting Prairie School style. Clad in regular brick. Alterations include modern windows throughout and in-fill of one window opening in the primary façade. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
31 N. 100 W.	c. 1916	1.5-story Bungalow single family dwelling exhibiting Bungalow style. Clad in narrow vinyl and shiplap siding. Alterations include enclosure of the front porch, modern windows, and modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
43 N. 100 W.	c. 1916	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts and Bungalow styles. Clad in regular brick and shiplap siding. Alterations limited to several modern windows. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
89 N. 100 W.	c. 1915	1.5-story Bungalow single family dwelling exhibiting Prairie School style. Clad in regular brick and shingle siding. Alterations limited to several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
101 N. 100 W.	c. 1949	1-story Other Commercial/Public (Corner Entry) building exhibiting Late 20 th Century: Other style. Clad in narrow vinyl siding. Alterations include a complete exterior remodel with synthetic stucco and probable enclosure of all window openings. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
153 N. 100 W.	c. 1916	1.5-story Bungalow exhibiting Bungalow and Late 20 th Century: Other styles. Clad in narrow vinyl siding. Alterations include a complete exterior remodel with cladding, modern windows, and a large, 2-story rear addition. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
171 N. 100 W.	c. 1916	1.5-story Bungalow single family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in regular brick and shiplap siding. Alterations include several modern windows and a concrete block chimney addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
189 N. 100 W.	c. 1901	1.5-story Central Block with Projecting Bays exhibiting Victorian Eclectic and Prairie School styles. Clad in regular brick and shingle siding. Alterations include several modern windows and a minor rear addition of indeterminate age. Building may have started as a Foursquare structure. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
192 N. 100 W.	c. 1934	1-story Period Cottage single family dwelling exhibiting Period Revival (muted English Tudor Revival) style. Clad in plaster over striated brick. Alterations include modern windows throughout, probable in-period application of plaster, and an in-period addition. One contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		La villa de la companya della companya della companya de la companya de la companya della compan
209 N. 100 W.	c. 1915	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in plaster, narrow vinyl siding, and wood sheet (T-1-11). Alterations include a large, out-of-period 2 nd story addition and several modern windows. Historical iron fence along frontage and south side yard. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
252 N. 100 W.	c. 1940	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in striated brick and stone veneer. Alterations include several modern windows, an in in-scale carport addition. The veneer may be historical. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
255 N. 100 W.	c. 1900	1.5-story Side Passage/Entry single family dwelling exhibiting Victorian Eclectic and Classical: Other styles. Clad in historical plaster. Alterations include several modern windows with some alteration of fenestration on a side elevation and several in-period additions. Two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	ES/Eligible	
260 N. 100 W.	c. 1931	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in narrow vinyl siding. Alterations include the remodel of the exterior with modern siding and modern windows throughout. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
265 N. 100 W.	c. 1955	1-story Ranch (with garage) single family dwelling exhibiting Ranch style. Clad in narrow vinyl siding and stone veneer. Alterations include a complete exterior remodel, including modern cladding and windows and enclosure of the attached garage to create living space. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
280 N. 100 W.	c. 1903	2-story Crosswing single family dwelling exhibiting Classical: Other style. Clad in plaster. Alterations include a carport addition, modern windows throughout, and a metal sheet roof. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
285 N. 100 W.	c. 1914	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in historic plaster. Alterations include several modern windows and boarding up of a transom window. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
309 N. 100 W.	c. 1943	1-story Early Ranch single family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in narrow vinyl siding. Alterations include several modern windows, a carport addition on the rear elevation, and the modern cladding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
314 N. 100 W.	c. 1913	2-story Hall-Parlor single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern internal divided light windows throughout, multiple additions of indeterminate age, and modern siding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
327 N. 100 W.	c. 1943	1-story Early Ranch single family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in asbestos siding and tongue-and-groove siding. Alterations appear limited to several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
337 N. 100 W.	c. 1943	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in asbestos siding. Alterations limited to a carport addition. One contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
340 N. 100 W.	c. 1962	1-story Early Ranch single family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in striated brick and vinyl siding. Alterations include modern windows throughout, a small side addition of indeterminate age, and minor use of vinyl siding. Two non-contributing outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
345 N. 100 W.	c. 1939	1-story Period Cottage single family dwelling exhibiting Rustic style. Clad in split logs and stone veneer. Alterations limited to a few modern windows in side elevation openings. Two noncontributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
347 N. 100 W.	c. 1938	1-story Period Cottage single family dwelling exhibiting general Period Revival style. Clad in wide aluminum siding. Alterations include small side and rear additions that appear to be of historical age, modern windows in most openings, and a carport addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
349 N. 100 W.	c. 1938	1-story Period Cottage single family dwelling exhibiting muted English Tudor Revival style. Clad in striated brick. Alterations appear limited to several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
350 N. 100 W.	c. 1869	1.5-story Hall-Parlor single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include the modern cladding, modern windows throughout, and additions of indeterminate age. Three non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
375 N. 100 W.	c. 1932	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, modern vinyl siding, an in-period rear addition, and possible enclosure of an original porch and construction of a new one. One contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
391 N. 100 W.	c. 1874	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, the modern vinyl cladding, and the probable in-period addition of the porch. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
20 S. 100 W.	c. 1947	1-story 1-Part Block commercial building exhibiting Ranch/Rambler style. Clad in striated brick. Alterations include the addition of a large, Ranch style awning to the primary façade. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	Dairons A. Control of the Control of
30 S. 100 W.	c. 1947	1-story 1-Part Block commercial building exhibiting Mansard and Late 20 th Century: Other styles. Clad in concrete block, stone veneer, and aluminum sheet siding. Alterations include the cladding, a façade addition, and the Mansard style awning (a 1970s remodel). No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	PET PIZZA JECKS 465-3307 Christos Christos

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
?43 S. 100 W.	c. 1950	1-story Service Station building exhibiting Post-WWII: Other style. Clad in brick veneer (brick: other) and concrete block. Alterations include an exterior remodel with the modern brick veneer. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	Notice of the second of the se
52 S. 100 W.	c. 1930	1-story Garage building exhibiting Rustic style. Clad in stucco, corrugated metal, and diagonal wood planks. Alterations include changes to fenestration and cladding and the addition of a false front. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	DK SERVICE
61 S. 100 W.	c. 1958	1-story Grocery store exhibiting Late 20 th Century: Other style. Clad in synthetic stucco, stone veneer, and oversized brick. Alterations include modern cladding (a modern exterior remodel). No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	anerconbeauty as a second seco

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
80 S. 100 W.	c. 1930/ 1965	1-story Service Bay/Business building exhibiting Contemporary style. Clad in striated brick, stone veneer, and concrete block. Alterations include the large, 1960s additions to what was a single bay garage. Alterations are in-period and eligible in their own right. No outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
75 E. 200 N.	c. 1943	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in wide aluminum siding. Alterations include several modern windows and modern but historically compatible aluminum siding. Two contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
585 E. 200 N.	c. 1919	1-story Other Residential Type single family dwelling exhibiting Ranch and Late 20 th Century: Other style. Clad in synthetic stucco. Alterations include a modern remodel with a large modern addition, synthetic stucco, and modern windows throughout. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
57 W. 200 N.	c. 1930	1-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and tongue-and-groove siding. Alterations include modern windows throughout. One contributing and one non-contributing outbuilding were observed on the property. Historic Boundary: Current legal parcel boundary	EC/Eligible	
60 W. 200 N.	c. 1900	1.5-story Crosswing single family dwelling exhibiting Rustic style. Clad in wood sheet and stone veneer. Alterations include a complete, modern, exterior remodel of cladding and windows. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
94 W. 200 N.	c. 1900	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in synthetic stucco and narrow vinyl siding. Alterations include a complete, modern, exterior remodel of cladding and windows as well as a side addition of indeterminate age. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
544 W. 200 N.	c. 1952	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in tongue-and-groove siding, wood sheet, and plaster. Alterations include modern windows throughout and a large side addition resulting in relocation of the entryway. Two non-contributing outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
547 W. 200 N.	c. 1904	1.5-story Hall-Parlor single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include the modern cladding, modern windows throughout, and additions of indeterminate age. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
558 W. 200 N.	c. 1952	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in striated brick. Alterations include modern windows throughout and an in-scale carport addition. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
562 W. 200 N.	c. 1940	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in wide aluminum siding, concrete block, and plaster. Alterations include modern windows throughout and multiple additions (likely in-period). Two contributing and one non-contributing outbuilding were observed.	NC/Ineligible	
		Historic Boundary: N/A		
90 N. 200 W.	c. 1916	1-story Bungalow single family dwelling exhibiting Arts & Crafts and Bungalow styles. Clad in regular brick and shiplap siding. Alterations limited to several modern windows. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
115 N. 300 E.	c. 1923	1-story Crosswing single family dwelling exhibiting Classical: Other and Late 20 th Century: Other styles. Clad in narrow plaster. Alterations include modern synthetic stucco windows surrounds and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
590 N. 300 E.	c. 1930	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, modern cladding, and additions of indeterminate age. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
596 N. 300 E.	c. 1944	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in striated brick. Alterations include several modern windows and an in-period rear addition. One contributing and one non-contributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
47 E. 300 N.	c. 1877	George Patten House. 2-story Crosswing single family dwelling exhibiting Classical: Other style. Clad in historical plaster and vinyl siding. Alterations include the minor use of vinyl siding, modern faux divided light windows throughout, and in-period additions. One contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
60 E. 300 N.	c. 1951	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in tongue-and-groove siding. Alterations include several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
75 E. 300 N.	c. 1906	2-story Crosswing single family dwelling exhibiting Other style. Clad in aluminum siding and imitation stone veneer. Alterations include the modern cladding and possible changes to window openings. Two contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
590 E. 300 N.	c. 1949	1.5-story Other Residential Type single family dwelling exhibiting Ranch and Split Level styles. Clad in vinyl siding. Alterations appear to include a split level addition and the modern vinyl cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
42 W. 300 N.	c. 1894	2-story Crosswing single family dwelling exhibiting Victorian: Other style. Clad in narrow vinyl siding. Alterations include 1950s porch posts, modern siding, and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
43 W. 300 N.	c. 1924	1-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in narrow vinyl siding. Alterations include modern windows throughout and the modern cladding. One noncontributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
62 W. 300 N.	c. 1925	1-story Hall-Parlor single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, multiple additions of indeterminate age, a modern porch railing, and the modern siding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
488 W. 300 N.	c. 1933	1-story Bungalow single family dwelling exhibiting Clipped Gable Cottage style. Clad in asbestos siding. Alterations include several modern windows and a modern door. Three contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
520 W. 300 N.	c. 1913	1.5-story Other Residential Type single family dwelling exhibiting Bungalow and Other styles. Clad in striated brick and stucco. Alterations include modern windows throughout. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
535 W. 300 N.	c. 1970	1-story Ranch (w/ carport) single family dwelling exhibiting Ranch/Rambler style. Clad in narrow vinyl siding. Alterations include several modern windows, the modern siding, and either expansion or addition of the carport. One noncontributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
559 W. 300 N.	c. 1933	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in narrow vinyl siding. Alterations include probable partial enclosure of the porch, the modern siding, and several modern windows. The front yard has also been altered with roughly half now comprising a gravel driveway/parking area. One noncontributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
571 W. 300 N.	c. 1950	1-story Other Residential Type single family dwelling exhibiting Late 20 th Century: Other style. Clad in modern Hardie board siding and modern stone veneer. Alterations include modern windows throughout and the modern veneer. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
610 W. 300 N.	c. 1910	1.5-story Hall-Parlor single family dwelling exhibiting Victorian: Other style. Clad in plaster and aluminum siding. Alterations include a carport addition, modern windows throughout, minor use of aluminum siding, and enclosure of a rear porch. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
708 W. 300 N.	c. 1900	1.5-story Other Residential Type single family dwelling exhibiting Classical: Other and Arts & Crafts styles. Clad in regular brick and tongue-and-groove siding. Alterations include a Bungalow addition, several modern windows, and a metal or vinyl shingle roof. Two non-contributing outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
787 W. 300 N.	c. 1956	1-story Ranch single family dwelling exhibiting Ranch/Rambler and Minimal Traditional styles. Clad in Roman brick. Alterations include an inperiod rear addition, a garage addition, and several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
25 E. 400 N.	c. 1908	1-story Crosswing single family dwelling exhibiting Other style. Clad in regular brick and asbestos siding. Alterations include modern windows throughout, several in-period additions, an in-period porch enclosure, a carport addition, and possible changes to a few window openings. Two non-contributing outbuildings were observed.	EC/Eligible Listed as part of Payson Historic District	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
40 E. 400 N.	c. 1934	1.5-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in narrow vinyl siding. Alterations include a carport addition, modern windows throughout, and the modern cladding. Two non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
59 E. 400 N.	c. 1904	1.5-story Central-block-with-projecting-bays single family dwelling exhibiting Victorian Eclectic and Victorian Romanesque styles. Clad in regular brick and sandstone. Alterations include several modern windows. Three contributing and two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	ES/Eligible	
99 E. 400 N.	c. 1947	1-story Period Cottage exhibiting Period Revival: Other and Minimal Traditional styles. Clad in striated brick. Alterations include a possible side porch addition or change of an entryway. One contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
101 E. 400 N.	c. 1908	1.5-story Central-block-with-projecting-bays single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and shingle siding. Alterations include a rear addition of indeterminate age and several modern windows. One contributing and one non-contributing outbuilding were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
84 W. 400 N.	c. 1900	1.5-story Crosswing single family dwelling exhibiting Classical: Other style. Clad in stucco. Alterations include multiple additions (including one in-progress), modern windows throughout with some changes to openings, and possible modern stucco over historical plaster. Historic Boundary: N/A	NC/Ineligible	
		• •		
98 W. 400 N.	c. 1924	1-story Bungalow single family dwelling exhibiting Bungalow and Prairie School styles. Clad in regular brick. Alterations include several modern windows, the addition of a basement entry to a side elevation, and a rear addition of indeterminate age. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
108 W. 400 N.	c. 1900	1.5-story Hall-Parlor single family dwelling exhibiting Victorian Eclectic style. Clad in plaster. Alterations include modern windows throughout, a two-bay garage addition to the west elevation, and an in-period rear addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
394 W. 400 N.	c. 1937	1-story Foursquare single family dwelling exhibiting Classical: Other style. Clad in medium width aluminum siding. Alterations include ca. 1970s aluminum frame windows, the modern siding, and an in-period rea addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
412 W. 400 N.	c. 1883	2-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in tongue-and-groove siding and shiplap siding. Alterations include raising the building (in-progress) to construct a basement, removal of the brick chimneys, and several modern windows. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
630 W. 400 N.	c. 1900	1-story Hall-Parlor single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, rear additions of indeterminate age, and the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
635 W. 400 N.	c. 1940	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in medium width aluminum siding. Alterations include changes to the front porch, modern windows throughout, and modern cladding. Three non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
638 W. 400 N.	c. 1969	1-story Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in narrow vinyl siding. Alterations include a modular home (trailer) addition to the façade, a carport addition, and the modern cladding. Three contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
643 W. 400 N.	c. 1900	1-story Bungalow single family dwelling exhibiting Prairie School style. Clad in narrow vinyl siding. Alterations include several modern windows and the modern cladding. One contributing and three non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
660 W. 400 N.	c. 1936	1-story Crosswing single family dwelling exhibiting Classical: Other style. Clad in asbestos siding over drop siding. Alterations include an inperiod side addition and several modern windows. One contributing (cabin) and 1 noncontributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
682 W. 400 N.	c. 1941	1-story WWII-Era Cottage single family dwelling exhibiting Other style. Clad in synthetic stucco. Alterations include modern windows throughout, modern cladding, and a metal sheet roof. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
696 W. 400 N.	c. 1900	1-story Hall-Parlor single family dwelling exhibiting Classical: Other style. Clad in plaster and wood sheet. Alterations include enclosure of the porch and a metal sheet roof. One contributing and two non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
698 W. 400 N.	c. 1959	1-story Ranch single family dwelling exhibiting Ranch/Rambler and Post-WWII: Other style. Clad in striated brick. Alterations include modern windows throughout, an out-of-period rear addition, a modern porch railing, a garage addition, and a carport addition. One noncontributing outbuilding was observed.	NC/Ineligible	
		Historic Boundary: N/A		
785 W. 400 N.	c. 1940	1-story Bungalow single family dwelling exhibiting Late 20 th Century: Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, modern cladding, and additions of indeterminate age. One contributing and one non-contributing outbuilding were observed.	NC/Ineligible	
		Historic Boundary: N/A		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
791 W. 400 N.	c. 1947	1-story Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in oversized brick and wood sheet (T-1-11). Alterations include several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
331 N. 400 W.	c. 1949	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in asbestos siding, concrete block, tongue-and-groove siding, and drop siding. Alterations include several inperiod additions. Two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
377 N. 400 W.	c. 1955	1-story Ranch single family dwelling exhibiting Minimal Traditional and Ranch/Rambler styles. Clad in narrow vinyl siding. Alterations include several modern windows, the modern cladding, and probable enclosure of a breezeway between the house and garage. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
383 N. 400 W.	c. 1900	1-story Other Residential Type single family dwelling exhibiting Late 20 th Century: Other style. Clad in synthetic stucco. Alterations include a complete remodel of the exterior with modern cladding and windows. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
602 N. 500 E.	c. 1930	2-story Bungalow single family dwelling exhibiting Clipped Gable Cottage style. Clad in narrow vinyl siding. Alterations include the modern siding, modern windows throughout, and a 2 nd story addition. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
645 N. 500 E.	c. 1900	1-story Crosswing single family dwelling exhibiting Other style. Clad in wood sheet (T-1-11). Alterations include the modern cladding, modern windows throughout, and an addition of indeterminate age. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
665 N. 500 E.	c. 1933	1-story Early Ranch (w/ carport) single family dwelling exhibiting Early Ranch and Minimal Traditional styles. Clad in asbestos siding. Alterations include modern windows throughout and a porch cover extension. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
806 N. 500 E.	c. 1903	Farmstead. 1.5-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and shingle siding. Alterations include modern faux divided light windows throughout with some minor alteration of opening and a metal sheet roof. Four contributing and four non-contributing outbuildings were observed.	EC/Eligible	
808 N. 500 E.	c. 1932	1.5-story Other Residential Type single family dwelling exhibiting Other style. Clad in drop siding and wide aluminum siding. Alterations include modern windows throughout and inperiod side additions. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
37 E. 500 N.	c. 1923	1-story Foursquare single family dwelling exhibiting Late 20 th Century: Other style. Clad in narrow vinyl siding. Alterations include modern windows throughout, a carport addition, modern porch railings, and the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
61 E. 500 N.	c. 1900	1.5-story Hall-Parlor single family dwelling exhibiting Classical: Other style. Clad in potentially historical plaster. Alterations include in-period additions, several modern windows, an in-period porch cover alteration, and a chimney addition resulting in altered fenestration. One contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	
81 E. 500 N.	c. 1928	1-story Crosswing single family dwelling exhibiting Period Revival: Other style. Clad in asbestos siding. Alterations include modern windows throughout, an in-period crosswing ell, and possible changes to a few window openings. One contributing and one non-contributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
591 E. 500 N.	c. 1934	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in striated brick and plaster. Alterations include modern windows in several openings. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
85 W. 500 N.	c. 1957	1-story Ranch (w/ carport) single family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. Alterations include modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
90 W. 500 N.	c. 1912	1.5-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and shingle siding. Alterations include several modern windows with minor changes to openings and an in-period addition. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
145 N. 600 E.	c. 1958	1-story Ranch (with carport) single family dwelling exhibiting Ranch/Rambler style. Clad in Roman brick and vinyl siding. Alterations include partial enclosure of the carport (clad in vinyl siding) and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
		Thistoric Boundary. Carrent legal parcer boundary		
158 N. 600 E.	c. 1890	2-story Hall-Parlor single family dwelling exhibiting Late 20 th Century: Other, Ranch/Rambler, and Classical: Other styles. Clad in stucco and stone veneer. Alterations include the modern cladding, modern windows throughout, and multiple additions of indeterminate age. Two contributing and one non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
179 N. 600 E.	c. 1921	1.5-story Bungalow single family dwelling exhibiting Other/Unclear style. Clad in narrow vinyl siding. Alterations include the modern cladding and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
191 N. 600 E.	c. 1905	1-story Bungalow single family dwelling exhibiting Clipped Gable Cottage and Late 20 th Century: Other styles. Clad in synthetic stucco and narrow vinyl siding. Alterations include the modern cladding, modern windows in most openings, and a rear addition of indeterminate age. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
210 N. 600 E.	c. 1900	1-story Hall-Parlor single family dwelling exhibiting Other/Unclear style. Clad in plaster. Alterations include large, in-period additions and modern windows in several openings. Two noncontributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
290 N. 600 E.	c. 1897	1.5-story Central Block with Projecting Bays single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick. Alterations limited to several modern windows with minor alteration of fenestration in one case. One contributing and three non-contributing outbuildings were observed.	ES/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
371 N. 600 E.	c. 1947	1-story Other Residential Type single family dwelling exhibiting Minimal Traditional, Ranch/Rambler, and Other/Unclear styles. Clad in plaster, vinyl siding, Roman brick, and wood sheet (T-1-11). Alterations appear to include a 2-story addition, changes to the cladding, and modern windows in many openings. One noncontributing outbuilding was observed Historic Boundary: N/A	NC/Ineligible	
619 N. 600 E.	c. 1969	1-story Ranch (w/carport) single family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. Alterations include modern windows throughout and a temporary wheelchair ramp. One contributing and one non-contributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
95 N. 600 W.	c. 1949	1-story Early Ranch single family dwelling exhibiting Minimal Traditional style. Clad in striated brick. Alterations include several modern windows. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
103 N. 600 W.	c. 1930	1-story WWII-Era Cottage single family dwelling exhibiting Other style. Clad in medium width aluminum siding. Alterations include multiple additions of indeterminate age. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
297 N. 600 W.	c. 1915	1.5-story Bungalow single family dwelling exhibiting Bungalow and Other styles. Clad in brick veneer and stone (lava rock) veneer. Alterations include modern windows throughout, a large rear addition, and the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
308 N. 600 W.	c. 1941	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in synthetic stucco. Alterations include an in-period rear addition, modern windows throughout, and the modern cladding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
325 N. 600 W.	c. 1955	1-story Early Ranch single family dwelling exhibiting Early Ranch and Minimal Traditional styles. Clad in striated brick and wood sheet (T-1-11). Alterations include modern windows throughout and alteration of cladding around the windows. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
326 N. 600 W.	c. 1943	1-story WWII-Era Cottage single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include an in-period rear addition, modern windows throughout, and the modern cladding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
340 N. 600 W.	c. 1939	1-story Crosswing single family dwelling exhibiting Late 20 th Century: Other style. Clad in synthetic stucco. Alterations include modern windows throughout and the modern cladding. Two non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
343 N. 600 W.	c. 1968	1.5-story Other Residential Type single family dwelling exhibiting Late 20 th Century: Other style. Clad in synthetic stucco and stone veneer. Alterations include a complete, modern, exterior remodel of cladding and windows. Historic Boundary: N/A	NC/Ineligible	
395 N. 600 W.	c. 1918	1.5-story Other Residential Type single family dwelling exhibiting Classical: Other style. Clad in plaster. Alterations include modern windows throughout with some possible changes to openings and an in-period addition of indeterminate age. No outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
8678 S. 3200 W.	c. 1942	1-story Early Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in narrow vinyl siding. Alterations include modern cladding (vinyl siding and metal roofing) and modern windows in most window openings. One contributing and three non-contributing outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
8741 S. 3200 W.	c. 1955	2-story Intermountain Barn (hay loft) exhibiting rustic style. Clad in vertical plank, horizontal plank, and wood sheet (T-1-11). Alterations include the application of wood sheet siding and general disrepair. Six non-contributing outbuildings and a modern residence were observed on the property.	EC/Eligible	
		Historic Boundary: Building only; remainder of property contains modern buildings		
2 N. Main St.	c. 1903	Lewis Block. 2-story 2-Part Block commercial building exhibiting Italianate style. Clad in regular brick and tongue-and-groove siding. Alterations include an in-period rear addition and infilling of some side elevation windows and doors. No outbuildings were observed. Historic Boundary: Building footprint	ES/Eligible Listed as part of Payson Historic District	
3-5 N. Main St.	c. 1955	1-story 1-Part Block commercial building exhibiting Post-WWII: Other style. Clad in striated brick and enameled aluminum panels. No notable alterations. No outbuildings were observed. Historic Boundary: Building footprint	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
6 N. Main St.	c. 1940	2-story 2-Part Block commercial building exhibiting Italianate style. Clad in wood sheet and regular brick. Alterations include an awning addition and the application of wood sheet (T-1-11) siding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	Memory Lane Photography Sum Photography The state of t
10 N. Main St.	c. 1947	1-story 1-Part Block commercial building exhibiting Post-WWII: Other style. Clad in ceramic tile. Alterations include probable inperiod application of the tile cladding. No outbuildings were observed. Historic Boundary: Building footprint	EC/Eligible	Lou's t
39 N. Main St.	c. 1945	1-story Other Public/Commercial building exhibiting Classical Revival style. Clad in regular brick, modern brick veneer, tongue-and-groove siding, and concrete block. Alterations include a façade remodel in 2002. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	THAT IS A STATE OF THE STATE OF

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
40 N. Main St.	c. 1940	1-story 1-Part Block commercial building exhibiting Other style. Clad in regular brick and wood plank siding. Alterations include the wood veneer. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		22 Louis
50 N. Main St.	c. 1940	1-story 1-Part Block commercial building exhibiting 20 th Century Commercial style. Clad in regular brick and wood sheet. No notable alterations. No outbuildings were observed. Historic Boundary: Building footprint	EC/Eligible	
54 N. Main St.	c. 1898	1-story 1-Part Block commercial building exhibiting Mansard style. Clad in plaster, shingle siding, and concrete block. Alterations include the conversion to Mansard style and modern cladding. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
67 N. Main St.	c. 1935	Other Public/Commercial building exhibiting Other style. Clad in regular brick and synthetic stucco. Alterations include the modern stucco on the façade. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
95 N. Main St.	c. 1918	Payson State Bank. 1-story 1-Part Block bank building exhibiting Federal Revival style. Clad in brick (other) and granite panels. Alterations include several modern windows and the drivethrough addition. No outbuildings were observed.	EC/Eligible	
		Historic Boundary: Building footprint		
?183 N. Main St.	c. 1931	LDS Ward House. 2-story Church building exhibiting Georgian Revival style. Clad in regular brick and granite. Alterations include modern windows throughout. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
215 N. Main St.	c. 1874/ 1912	Samuel Douglass House. 2-story Central Passage single family dwelling exhibiting Picturesque: Other and Arts & Crafts styles. Clad in plaster, adobe, and stone veneer. Alterations include the 1912 Arts & Crafts porch and several modern windows. One contributing and one noncontributing outbuilding were observed. A historical wrought-iron fence is present along the frontage of the yard.	ES/Eligible Individually listed on NRHP Listed as part of Payson Historic District	
218 N. Main St.	c. 1893	John Dixon House. 2-story Central-block-with-projecting-bays single family dwelling exhibiting Richardsonian Romanesque style. Clad in sandstone. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	ES/Eligible Individually listed on NRHP Listed as part of Payson Historic District	
248 N. Main St.	c. 1892	Christopher Dixon, Jr. House. 2-story Central-block-with-projecting-bays single family dwelling exhibiting Richardsonian Romanesque style. Clad in regular brick and sandstone. Alterations include several modern windows and several inperiod additions. Two contributing and one noncontributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	ES/Eligible Individually listed on NRHP Listed as part of Payson Historic District	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
280 N. Main St.	c. 1918	1-story Bungalow single family dwelling exhibiting Bungalow and Prairie School styles. Clad in regular brick. Alterations include an inperiod garage addition, ca. 1950s porch posts, and modern windows throughout. Two contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
281 N. Main St.	c. 1922	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and vinyl siding. Alterations include the minor use of modern vinyl cladding and several modern windows with minor changes to a few openings. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
291 N. Main St.	c. 1900	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and tongue-and-groove siding. Alterations include a deck addition, addition of French doors in the upper half story to access the deck, and several modern windows. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
297 N. Main St.	c. 1915	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and plaster. Alterations include several modern windows. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
309 N. Main St.	c. 1915	1-story Bungalow single family dwelling exhibiting Prairie School and Late 20 th Century: Other styles. Clad in synthetic stucco. Alterations include a large, out-of-period rear addition and complete modern remodel of the cladding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	
310 N. Main St. (aka, 15 E. 300 N.)	c. 1910	1.5-story Period Cottage single family dwelling exhibiting Period Revival: Other style. Clad in vinyl siding. Alterations include modern windows throughout with changes to openings, multiple additions of indeterminate age, and the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
330 N. Main St.	c. 1951	1-story Early Ranch single family dwelling exhibiting Minimal Traditional style. Clad in asbestos siding and vinyl narrow siding. Alterations include modern windows throughout, minor use of modern vinyl siding, and modern porch alteration. One non-contributing outbuilding was observed.	EC/Eligible Listed as part of Payson Historic District	
		Historic Boundary: Current legal parcel boundary		
335 N. Main St.	c. 1922	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in tongue-and-	EC/Eligible	
		groove and drop siding. Alterations include	Listed as part of	
		modern windows throughout. One non-	Payson Historic	The same of the sa
		contributing outbuilding was observed.	District	
		Historic Boundary: Current legal parcel boundary		
340 N. Main St.	c. 1943	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in	EC/Eligible	
		asbestos siding. Alterations include several	Listed as part of	
		modern windows and a side awning addition.	Payson Historic	
		Neighbor thought the building had been	District	
		relocated to the current site. One non-contributing outbuilding was observed.		
		Historic Boundary: Current legal parcel boundary		
		(shares parcel with 350 N. Main St.)		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
341 N. Main St.	c. 1919	1-story Bungalow single family dwelling exhibiting Bungalow style. Clad in regular brick and clinker brick. Alterations include modern	EC/Eligible Listed as part of	
		windows throughout. One non-contributing outbuilding was observed.	Payson Historic District	TO THE STATE OF TH
		Historic Boundary: Current legal parcel boundary		
347 N. Main St.	c. 1922	1-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick	EC/Eligible	A CONTRACTOR OF THE CONTRACTOR
		and tongue-and-groove siding. Alterations	Listed as part of	
		include a carport addition and several modern windows. One non-contributing outbuilding was observed.	Payson Historic District	
		Historic Boundary: Current legal parcel boundary		All Control of the Co
350 N. Main St.	c. 1939	1-story Other Residential Type single family dwelling exhibiting Other style. Clad in stucco.	EC/Eligible	
		Alterations include several modern windows. No outbuildings were observed.	Listed as part of Payson Historic District	
		Historic Boundary: Current legal parcel boundary (shares parcel with 340 N. Main St.)		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
360 N. Main St.	c. 1941	1-story Period Cottage single family dwelling exhibiting muted English Tudor Revival style. Clad in striated brick. Alterations include an in-period rear addition and several modern windows. One contributing and one non-contributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
		Thistoric Boundary. Current legal parcer boundary		
363 N. Main St.	c. 1915	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and plaster. Alterations include several modern windows with minor changes to a few openings. One contributing outbuilding was observed. A historical fence is present along the frontage of the property.	EC/Eligible Listed as part of Payson Historic District	
		Historic Boundary: Current legal parcel boundary		
395 N. Main St.	c. 1915	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in rock-faced concrete block and tongue-and-groove siding. Alterations include modern windows throughout. One non-contributing outbuilding was observed.	EC/Eligible Listed as part of Payson Historic District	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
410 N. Main St.	c. 1896	1.5-story Hall-Parlor single family dwelling exhibiting Classical: Other and Late 20 th Century: Other styles. Clad in brick veneer. Alterations include a modern era exterior remodel. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
413 N. Main St.	c. 1904	1-story Bungalow single family dwelling exhibiting Prairie School style. Clad in plaster and	EC/Eligible	
		shiplap siding. Alterations include several	Listed as part of	
		modern windows and a carport addition. No outbuildings were observed.	Payson Historic District	
		Historic Boundary: Current legal parcel boundary		
420 N. Main St.	c. 1924	1.5-story Bungalow single family dwelling exhibiting Clipped Gable Cottage and Other styles. Clad in brick veneer and narrow vinyl	NC/Ineligible	
		siding. Alterations include modern windows		
		throughout, metal roofing, and modern cladding. One non-contributing outbuilding was observed.		
		One non-contributing outbuilding was observed.		
		Historic Boundary: N/A		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
443 N. Main St.	c. 1955	1-story Early Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in oversized	EC/Eligible	
		rock-faced brick and wood sheet. No notable	Listed as part of	
		alterations. One non-contributing outbuilding	Payson Historic	
		was observed.	District	
		Historic Boundary: Current legal parcel boundary		200
				ALL THE STATE OF T
446 N. Main St.	c. 1953	1-story Early Ranch single family dwelling exhibiting Early Ranch and Minimal Traditional	EC/Eligible	
		styles. Clad in clapboard and tongue-and-groove		WITH A STATE OF THE STATE OF TH
		siding. Alterations include a carport addition and		
		several modern windows with minor changes to		
		a few openings. One non-contributing outbuilding was observed.		
		Historic Boundary: Current legal parcel boundary		
447 N. Main St.	c. 1955	1-story Early Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in striated	EC/Eligible	
		brick and wood sheet. Alterations include several	Listed as part of	
		modern windows. One non-contributing	Payson Historic	
		outbuilding was observed.	District	
		Historic Boundary: Current legal parcel boundary		J. J.

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
448 N. Main St.	c. 1952	1-story Early Ranch single family dwelling exhibiting Early Ranch and Minimal Traditional styles. Clad in wide aluminum siding and Roman brick. Alterations include a carport addition, a probable façade addition, and possible changes to the cladding. One non-contributing outbuilding was observed.	NC/Ineligible Listed as part of Payson Historic District	
		Historic Boundary: N/A		
451 N. Main St.	c. 1920	1-story Bungalow single family dwelling exhibiting Prairie School style. Clad in synthetic stucco. Alterations include a modern, exterior remodel with new cladding, modern windows, and a metal sheet roof. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	
452 N. Main St.	c. 1948	1-story Early Ranch single family dwelling exhibiting Minimal Traditional style. Clad in tongue-and-groove siding. Alterations include modern windows throughout and a carport addition. One contributing and one noncontributing outbuilding were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
467 N. Main St.	c. 1957	1-story WWII-Era Cottage (w/ garage) exhibiting Minimal Traditional style. Clad in asbestos siding and tongue-and-groove siding. Alterations include multiple additions of indeterminate age, enclosure of an attached garage, and metal roofing. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
485 N. Main St.	c. 1940	Basement house single family dwelling exhibiting Other style. Clad in wide aluminum siding and wood sheet. Alterations include minor changes to fenestration and modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	_	
495 N. Main St.	c. 1910	1-story Foursquare single family dwelling exhibiting Victorian: Other and Bungalow styles. Clad in drop siding and wide aluminum siding. Alterations include several in-period additions, 1950s porch rail and aluminum siding, and several modern windows. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	

I-15 Payson Main Street Interchange EIS Structures Report U-14-HY-1270ps

Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
496 N. Main St.	c. 1904	1.5-story Crosswing single family dwelling exhibiting Victorian Eclectic style. Clad in regular brick and wide aluminum siding. Alterations include modern windows throughout with possible minor changes to a few openings and an in-period rear addition. One contributing and two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
511 N. Main St.	c. 1931	1-story Period Cottage exhibiting muted English Tudor Revival style. Clad in plaster. Alterations include several modern windows, and in-period rear addition, and a basement entry addition. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	
540 N. Main St.	c. 1910	1-story Hall-Parlor single family dwelling exhibiting Other style. Clad in medium width aluminum siding. Alterations include multiple additions of indeterminate age, modern windows throughout, a carport addition, and the modern cladding. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
543 N. Main St.	c. 1952	1-story Early Ranch single family dwelling exhibiting Minimal Traditional style. Clad in narrow vinyl siding and imitation stone veneer. Alterations include modern windows throughout and the modern cladding. One non-contributing outbuilding was observed.	NC/Ineligible	
		Historic Boundary: N/A		
550 N. Main St.	c. 1915	Payson City Substation. 1.5-story 1-Part Block building exhibiting Italianate style. Clad in regular brick. Alterations include several modern windows with partial enclosure of a few openings. One non-contributing outbuilding was observed. Historic Boundary: Building footprint	EC/Eligible	
581 N. Main St.	c. 1951	1-story Ranch single family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. No notable alterations. Two non-contributing outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
625 N. Main St.	c. 1948	1-story Early Ranch (w/ garage) single family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in striated brick. Alterations include a carport addition and modern windows throughout. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
1766 W. SR-198	c. 1952	1-story Early Ranch single family dwelling exhibiting Minimal Traditional style. Clad in narrow vinyl siding. Alterations include the modern cladding and an in-period rear addition. Three contributing and two non-contributing outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
2204 W. SR-198	c. 1940	1-story WWII-Era Cottage single family dwelling exhibiting Minimal Traditional style. Clad in asbestos siding over wood plank. Alterations include several modern windows. No outbuildings were observed. This building is located on the property with 2232 W., which is the primary historical dwelling for the farmstead.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
2218 W. SR-198	c. 1955	1-story Other Residential Type single family dwelling exhibiting Ranch/Rambler style. Clad in concrete block. Alterations include several modern windows. No outbuildings were observed. This building is located on the property with 2232 W., which is the primary historical dwelling for the farmstead.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
?2224 W. SR-198	c. 1930	1-story Other Residential Type single family dwelling exhibiting Minimal Traditional and Other styles. Clad in tongue-and-groove siding. Alterations include several modern windows and in-period additions. No outbuildings were observed. This building is located on the property with 2232 W., which is the primary historical dwelling for the farmstead.	EC/Eligible	
2232 W. SR-198	c. 1884	2-story Side Passage/Entry single family dwelling exhibiting Victorian: Other style. Clad in asbestos siding. Alterations include in-period siding and several modern windows with some possible changes to the openings. Approximately 10 contributing outbuildings (farmstead) were noted, including dwellings documented separately.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
?2300 W. SR-198	c. 1960	Agricultural outbuilding complex exhibiting no particular style. Loafing shed, sheds, corrals, etc. Alterations include general deterioration and patching with reclaimed material. Historic Boundary: N/A	NC/Ineligible	
2466 W. SR-198	c. 1964	1-story Ranch single family dwelling exhibiting Ranch/Rambler and Late 20 th Century: Other styles. Clad in modern brick veneer (brick: other). Alterations include additions of indeterminate age and a probable exterior remodel with the modern brick veneer. Three non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
85 E. Utah Ave.	c. 1884	Payson Opera House. 2-story Other Public/Commercial building exhibiting Italianate style. Clad in regular brick and sandstone. Alterations include modern windows throughout. No outbuildings were observed. Historic Boundary: Building footprint	EC/Eligible Listed as part of Payson Historic District	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
26 W. Utah Ave.	c. 1950	1-story 1-Part Block commercial building exhibiting Later 20 th Century: Other style. Clad in vinyl siding, tin sheet, and stone veneer. Alterations include the exterior remodel over various periods of time. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
36 W. Utah Ave.	c. 1914	IOOF Building. 2-story 2-Part Block commercial building exhibiting Late 20 th Century: Other style. Clad in concrete block and synthetic stucco. Alterations include several modern windows and modern veneer. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	
60 W. Utah Ave.	c. 1915	1-story 1-Part Block commercial building exhibiting Late 20 th Century: Other style. Clad in synthetic stucco and vinyl siding. Alterations include a complete exterior remodel. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Listed as part of Payson Historic District	Crason Franks

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
70-98 W. Utah Ave.	c. 1950	Huish Theater. 1-story Other Public/Commercial building exhibiting Late 20 th Century: Other style. Designed by architect Fred Markham. Clad in striated brick, stone veneer, tongue-and-groove siding, and concrete block. Alterations include several modern windows. The stone veneer is original (Paul Mower, personal communication to Elizabeth Giraud, 2015). No outbuildings were observed.	EC/Eligible Listed as part of Payson Historic District	
115 W. Utah Ave.	c. 1945	Historic Boundary: Building footprint 1-story 1-Part Block commercial building exhibiting Late 20 th Century: Other and Minimal Traditional styles. Clad in striated brick and synthetic stucco. Alterations include the modern synthetic cladding and possible altered fenestration. No outbuildings were observed on the property. Historic Boundary: N/A	NC/Ineligible	DIVS Diss Sales
596 W. Utah Ave.	c. 1939	1.5-story Period Cottage exhibiting Period Revival: Other style. Clad in tongue-and-groove siding. Alterations include several modern windows. One contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Listed as part of Payson Historic District	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
640 W. Utah Ave.	c. 1920	1-story Bungalow single family dwelling exhibiting Bungalow and Prairie School styles. Clad in tongue-and-groove siding and drop siding. No notable alterations. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
652 W. Utah Ave.	c. 1914	1.5-story Bungalow single family dwelling exhibiting Arts & Crafts style. Clad in regular brick and vinyl siding. Alterations include the minor use of modern cladding and modern windows throughout. Two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
820 W. Utah Ave.	c. 1900	1-story Crosswing single family dwelling exhibiting Other style. Clad in narrow vinyl siding. Alterations include changes to fenestration, several in-period additions, including a wraparound porch, and modern cladding. Three contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

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Table 1. Historical structures in the APE—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
858 W. Utah Ave.	c. 1900	1-story Hall-Parlor single family dwelling exhibiting Other style. Clad in synthetic stucco. Alterations include modern windows throughout and a metal sheet roof. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
868 W. Utah Ave.	c. 1942	1-story Period Cottage single family dwelling exhibiting Period Revival: Other style. Clad in plaster. Alterations include several modern windows. Two non-contributing outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

SUMMARY AND CONCLUSIONS

Certus conducted a selective reconnaissance-level structures inventory for the I-15 Payson Main Street Interchange Project in Payson, Utah County, Utah, in support of UDOT's proposed interchange improvements. The assessment resulted in the identification of 209 properties with historical structures. Portions of the Payson (National Register) Historic District are also located in the APE/survey area. Certus recommends that 114 of the properties receive SHPO ratings of "ES" or "EC" and be considered eligible for the NRHP. Three properties are individually listed on the NRHP while many others are listed as contributing features of the Payson Historic District. Certus recommends the remaining 95 properties receive SHPO ratings of "NC" and be considered ineligible for the NRHP. **Table 3** summarizes these recommendations.

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
35 N. 100 E.	EC	Eligible
145 N. 100 E.	NC	Ineligible
149 N. 100 E.	EC	Eligible
175 N. 100 E.	EC	Eligible
189 N. 100 E.	NC	Ineligible
209 N. 100 E.	EC	Eligible
235 N. 100 E.	EC	Eligible
327 N. 100 E.	NC	Ineligible
389 N. 100 E.	NC	Ineligible
48 E. 100 N.	EC	Eligible
123 E. 100 N.	EC	Eligible
171 E. 100 N.	EC	Eligible
190 E. 100 N.	NC	Ineligible
197 E. 100 N.	EC	Eligible
208 E. 100 N.	NC	Ineligible
240 E. 100 N.	EC	Eligible
280 E. 100 N.	EC	Eligible
297 E. 100 N.	NC	Ineligible
315 E. 100 N.	EC	Eligible
54 W. 100 N.	ES	Eligible
64 W. 100 N.	NC	Ineligible
180 W. 100 N.	NC	Ineligible
228 W. 100 N.	ES	Eligible
560 W. 100 N.	NC	Ineligible
586 W. 100 N.	EC	Eligible
596 W. 100 N.	NC	Ineligible
625 W. 100 N.	NC	Ineligible
70 W. 100 S.	EC	Eligible
96 W. 100 S.	EC	Eligible
31 N. 100 W.	NC	Ineligible
43 N. 100 W.	EC	Eligible
89 N. 100 W.	EC	Eligible
101 N. 100 W.	NC	Ineligible
153 N. 100 W.	NC	Ineligible

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
171 N. 100 W.	EC	Eligible
189 N. 100 W.	EC	Eligible
192 N. 100 W.	EC	Eligible
209 N. 100 W.	NC	Ineligible
252 N. 100 W.	EC	Eligible
255 N. 100 W.	ES	Eligible
260 N. 100 W.	NC	Ineligible
265 N. 100 W.	NC	Ineligible
280 N. 100 W.	EC	Eligible
285 N. 100 W.	EC	Eligible
309 N. 100 W.	NC	Ineligible
314 N. 100 W.	NC	Ineligible
327 N. 100 W.	EC	Eligible
337 N. 100 W.	EC	Eligible
340 N. 100 W.	EC	Eligible
345 N. 100 W.	EC	Eligible
347 N. 100 W.	EC	Eligible
349 N. 100 W.	EC	Eligible
350 N. 100 W.	NC	Ineligible
375 N. 100 W.	NC	Ineligible
391 N. 100 W.	NC NC	Ineligible
20 S. 100 W.	NC NC	Ineligible
		=
30 S. 100 W.	NC NC	Ineligible
?43 S. 100 W.	NC	Ineligible
52 S. 100 W.	NC	Ineligible
61 S. 100 W.	NC	Ineligible
80 S. 100 W.	EC	Eligible
75 E. 200 N.	EC	Eligible
585 E. 200 N.	NC	Ineligible
57 W. 200 N.	EC	Eligible
60 W. 200 N.	NC	Ineligible
94 W. 200 N.	NC	Ineligible
544 W. 200 N.	NC	Ineligible
547 W. 200 N.	NC	Ineligible
558 W. 200 N.	EC	Eligible
562 W. 200 N.	NC	Ineligible
90 N. 200 W.	EC	Eligible
115 N. 300 E.	NC	Ineligible
590 N. 300 E.	NC	Ineligible
596 N. 300 E.	EC	Eligible
47 E. 300 N.	NC	Ineligible
60 E. 300 N.	EC	Eligible
75 E. 300 N.	NC	Ineligible
590 E. 300 N.	NC	Ineligible
42 W. 300 N.	NC	Ineligible
43 W. 300 N.	NC	Ineligible
62 W. 300 N.	NC	Ineligible

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
488 W. 300 N.	EC	Eligible
520 W. 300 N.	EC	Eligible
535 W. 300 N.	NC	Ineligible
559 W. 300 N.	NC	Ineligible
571 W. 300 N.	NC	Ineligible
610 W. 300 N.	EC	Eligible
708 W. 300 N.	EC	Eligible
787 W. 300 N.	EC	Eligible
25 E. 400 N.	EC	Eligible ¹
40 E. 400 N.	NC	Ineligible
59 E. 400 N.	ES	Eligible
99 E. 400 N.	EC	Eligible
101 E. 400 N.	EC	Eligible
84 W. 400 N.	NC	Ineligible
98 W. 400 N.	EC	Eligible
108 W. 400 N.	EC	Eligible
394 W. 400 N.	EC	Eligible
412 W. 400 N.	NC	Ineligible
630 W. 400 N.	NC NC	Ineligible
635 W. 400 N.	NC NC	Ineligible
638 W. 400 N.	NC NC	Ineligible
643 W. 400 N.	NC NC	Ineligible
660 W. 400 N.	EC	Eligible
682 W. 400 N.	NC NC	Ineligible
696 W. 400 N.	NC NC	=
698 W. 400 N.	NC NC	Ineligible
785 W. 400 N.	NC NC	Ineligible
	EC	Ineligible
791 W. 400 N.	EC	Eligible
331 N. 400 W.	_	Eligible
377 N. 400 W.	NC NC	Ineligible
383 N. 400 W.	NC NC	Ineligible
602 N. 500 E.	NC NC	Ineligible
645 N. 500 E.	NC 50	Ineligible
665 N. 500 E.	EC	Eligible
806 N. 500 E.	EC	Eligible
808 N. 500 E.	EC	Eligible
37 E. 500 N.	NC	Ineligible
61 E. 500 N.	NC	Ineligible ²
81 E. 500 N.	EC	Eligible
591 E. 500 N.	EC	Eligible
85 W. 500 N.	EC	Eligible
90 W. 500 N.	EC	Eligible
145 N. 600 E.	EC	Eligible
158 N. 600 E.	NC	Ineligible
179 N. 600 E.	NC	Ineligible
191 N. 600 E.	NC	Ineligible
210 N. 600 E.	EC	Eligible

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
290 N. 600 E.	ES	Eligible
371 N. 600 E.	NC	Ineligible
619 N. 600 E.	EC	Eligible
95 N. 600 W.	EC	Eligible
103 N. 600 W.	NC	Ineligible
297 N. 600 W.	NC	Ineligible
308 N. 600 W.	NC	Ineligible
325 N. 600 W.	EC	Eligible
326 N. 600 W.	NC	Ineligible
340 N. 600 W.	NC	Ineligible
343 N. 600 W.	NC	Ineligible
395 N. 600 W.	EC	Eligible
8678 S. 3200 W.	NC	Ineligible
8741 S. 3200 W.	EC	Eligible
2 N. Main St.	ES	Eligible ¹
3-5 N. Main St.	EC	Eligible
6 N. Main St.	NC	Ineligible
10 N. Main St.	EC	Eligible
39 N. Main St.	NC	Ineligible
40 N. Main St.	NC	Ineligible
50 N. Main St.	EC	Eligible
54 N. Main St.	NC	Ineligible
67 N. Main St.	NC	Ineligible
95 N. Main St.	EC	Eligible
?183 N. Main St.	EC	Eligible
215 N. Main St.	ES	Eligible ³
218 N. Main St.	ES	Eligible ³
248 N. Main St.	ES	Eligible ³
280 N. Main St.	EC	Eligible ¹
281 N. Main St.	EC	Eligible ¹
291 N. Main St.	EC	Eligible ¹
297 N. Main St.	EC	Eligible Eligible Eligible
309 N. Main St.	NC	Ineligible ²
310 N. Main St.	NC	Ineligible ²
330 N. Main St.		Eligible ¹
	EC	Eligible ¹
335 N. Main St. 340 N. Main St.	EC	Eligible ¹
340 N. Main St.	EC	
	EC	Eligible ¹
347 N. Main St.	EC	Eligible ¹
350 N. Main St.	EC	Eligible ¹
360 N. Main St.	EC	Eligible ¹
363 N. Main St.	EC	Eligible ¹
395 N. Main St.	EC	Eligible ¹
410 N. Main St.	NC	Ineligible
413 N. Main St.	EC	Eligible ¹
420 N. Main St.	NC	Ineligible
443 N. Main St.	EC	Eligible ¹

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
446 N. Main St.	EC	Eligible
447 N. Main St.	EC	Eligible ¹
448 N. Main St.	NC	Ineligible ²
451 N. Main St.	NC	Ineligible ²
452 N. Main St.	EC	Eligible
467 N. Main St.	NC	Ineligible
485 N. Main St.	EC	Eligible ¹
495 N. Main St.	EC	Eligible ¹
496 N. Main St.	EC	Eligible ¹
511 N. Main St.	EC	Eligible ¹
540 N. Main St.	NC	Ineligible
543 N. Main St.	NC	Ineligible
550 N. Main St.	EC	Eligible
581 N. Main St.	EC	Eligible
625 N. Main St.	EC	Eligible
1766 W. SR-198	NC	Ineligible
2204 W. SR-198	EC	Eligible
2218 W. SR-198	EC	Eligible
?2224 W. SR-198	EC	Eligible
2232 W. SR-198	EC	Eligible
?2300 W. SR-198	NC	Ineligible
2466 W. SR-198	NC	Ineligible
85 E. Utah Ave.	EC	Eligible ¹
26 W. Utah Ave.	NC	Ineligible
36 W. Utah Ave.	NC	Ineligible ²
60 W. Utah Ave.	NC	Ineligible ²
70-98 W. Utah Ave.	EC	Eligible ¹
115 W. Utah Ave.	NC	Ineligible
596 W. Utah Ave.	EC	Eligible ¹
640 W. Utah Ave.	EC	Eligible
652 W. Utah Ave.	EC	Eligible
820 W. Utah Ave.	NC	Ineligible
858 W. Utah Ave.	EC	Eligible
868 W. Utah Ave.	EC	Eligible

¹ Listed as part of Payson Historic District

Anticipated effects on the historic properties from the proposed interchange project were not known to Certus at the time of this report. Those effects will be assessed by UDOT and documented in a determination of eligibility and finding of effect (DOE-FOE) letter.

² Listed as part of Payson Historic District but recommended ineligible due to subsequent changes

³ Listed individually and as part of Payson Historic District

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APPENDIX B

TECHNICAL REPORTS

ADDENDUM TO: SELECTIVE RECONNAISSANCE-LEVEL HISTORIC STRUCTURES ASSESSMENT FOR THE INTERSTATE 15 PAYSON MAIN STREET INTERCHANGE ENVIRONMENTAL IMPACT STATEMENT, UTAH COUNTY, UTAH FINAL

Addendum to:

Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project No. F-I15-6(214)251; PIN 10263

Prepared for

The Utah Department of Transportation and H.W. Lochner, Inc.

Prepared by

Sheri Murray Ellis, MS, RPA Manager/Sr. Consultant



Certus Environmental Solutions, LLC Salt Lake City, Utah 801.230.7260

Utah Antiquities Project No. U16HY0504p PLPCO Permit No. 47

Certus Project Number LOCH08

July 8, 2016

PROJECT ABSTRACT SHEET

Report Title: Addendum to: Selective Reconnaissance-Level Historic Structures Assessment for the Interstate 15 Payson Main Street Interchange EIS, Utah County, Utah

UDOT Project Number and Name: F-I15-6(214)251; Payson Interchange EIS; PIN 10263

Utah State Project Number: U16HY0504p

Project Description: The Utah Department of Transportation (UDOT) is considering improvements to Interstate 15 interchange at Main Street in Payson, Utah. These improvements may include changes to the existing interchange configuration or relocation of the interchange. The UDOT is preparing an EIS to evaluate alternatives for the interchange improvements. Four "build alternatives" are being carried forward for analysis in the EIS.

Area of Potential Effects: The area of potential effects (APE) for this addendum survey was established based on a comparison of the current combined APE for the four EIS alternatives and the boundaries of the previous historic structures reconnaissance-level survey (Ellis 2015) conducted for the interchange project. The APE for the addendum assessment encompasses approximately 91 acres.

Agencies: Utah Department of Transportation; Payson City; U.S. Army Corps of Engineers; Federal Highway Administration

Location: Payson City, Utah County

Land Ownership: Private

Date(s) of Fieldwork: June 30, 2016

Methods: Selective reconnaissance-level buildings inventory

Acres Surveyed for Historic Buildings: 37 hectares (91 acres)

Properties with Historic Structures Recorded: 55 (see Table S1, below)

NRHP Eligible Structures: 30 (see Table S1, below)

Table S1. Summary of Historic Structures and National Register Eligibility Recommendations

	Eligible for the NRHP	
50 N. 100 E.	450 E. 200 N.	80 S. Main St. 1
140 N. 100 E.	49 S. 200 W.	86 S. Main St. 1
150 N. 100 E.	19 N. 300 E.	2025 W. SR-198
443 E. 100 N.	125 N. 300 E.	115 E. Utah Ave. 1
523 E. 100 N.	155 N. 300 E.	197 E. Utah Ave.
150 W. 100 S.	180 N. 500 E.	205 E. Utah Ave. 1
170 W. 100 S.	195 N. 300 E.	263 E. Utah Ave. 1
129 N. 200 E.	10 S. 600 E. ³	313 E. Utah Ave.
150 E. 200 N	10 S. Main St. 1	174 W. Utah Ave. 1
210 E. 200 N.	12-14 S. Main St. ¹	196 W. Utah Ave. 1
	Not Eligible for the NRHP	
170 N. 100 E.	45 N. 300 E.	2009 W. SR-198
190 N. 100 E.	49 N. 300 E.	135 W. Utah Ave.
350 E. 100 N.	140 N. 300 E.	144 W. Utah Ave. ²
395 E. 100 N.	188 N. 300 E.	145 E. Utah Ave. ²
166 N. 200 E.	190 N. 400 E.	155 W. Utah Ave. ²
189 N. 200 E.	160 N. 500 E.	175 W. Utah Ave. ²
528 E. 200 N.	20-22 S. Main St. ²	187 W. Utah Ave.
484 E. 100 N.	30-40 S. Main St. ²	
50 N. 200 W.	66-68 S. Main St.	

¹ Listed as part of Payson Historic District
² Listed as part of Payson Historic District but recommended ineligible due to alterations
³ Individually listed on NRHP

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Introduction

The Utah Department of Transportation (UDOT), in conjunction with the Federal Highway Administration (FHWA) is evaluating potential improvements to the Interstate 15 interchange at Main Street in Payson, Utah (**Figure 1**). The improvements may include changes to the existing interchange and/or construction of a new interchange at a different location. Four "build alternatives" to address the project purpose and need are being evaluated in an environmental impact statement (EIS). The project is hereafter referred to as the Interchange Project or the I-15 Payson Main Street Interchange Project.

H.W. Lochner, Inc. (Lochner) is assisting UDOT with environmental studies for the Interchange Project. Lochner contracted with Certus Environmental Solutions, LLC (Certus) to conduct an assessment of cultural resources in the area of potential effects for the proposed project. Both archaeological and architectural/structural assessments have been completed. The results of the archaeological inventory will be reported under separate cover. Certus conducted a selective reconnaissance-level survey (RLS) of historical structures in a large study area around the interchange project area in 2014 and 2015. The results of this RLS were reported in 2015 (Ellis 2015). Subsequent to the completion of that report, the study area for the interchange project was revised, and several areas located outside the original study area were identified. These additional areas are collectively referred to hereafter as the addendum study area or addendum area of potential effects (APE).

Sheri Murray Ellis, architectural historian, conducted fieldwork for the addendum study area on June 19 and 30, 2016. All work was carried out under Utah State Antiquities Project No. U16HY0504p. The results of the addendum RLS are reported herein.

THE AREA OF POTENTIAL EFFECTS AND SURVEY AREA

The project area is located in the community of Payson in Utah County, Utah (see **Figure 1**). Implementation of the project, whether reconstruction of the existing interchange or construction of a new interchange, would require ground disturbance up to several feet deep and would necessitate acquisition of new right-of-way as well as temporary construction easements. Historical structural properties in the footprint of the final interchange improvements would need to be demolished or relocated. Additional historical structural properties adjacent to the final project site may be indirectly affected by visual intrusion.

A large study area/survey area was defined to assess historic structures in 2014. This area was inventoried and the results reported (Ellis 2015). Subsequently, the study area was revised, and certain areas now under consideration for alternatives being evaluated in the EIS fall outside the original study area. The APE for the addendum RLS corresponds to the combined footprint of four build alternatives under consideration in the EIS plus an additional 300-foot buffer beyond the anticipated edge of right-of-way for those alternatives. Only those portions of that APE located outside the 2014 study area are addressed in this report (see **Figures 2 and 3**). The addendum APE encompasses approximately 37 hectares (91 acres). The addendum RLS survey area is equal to the APE.

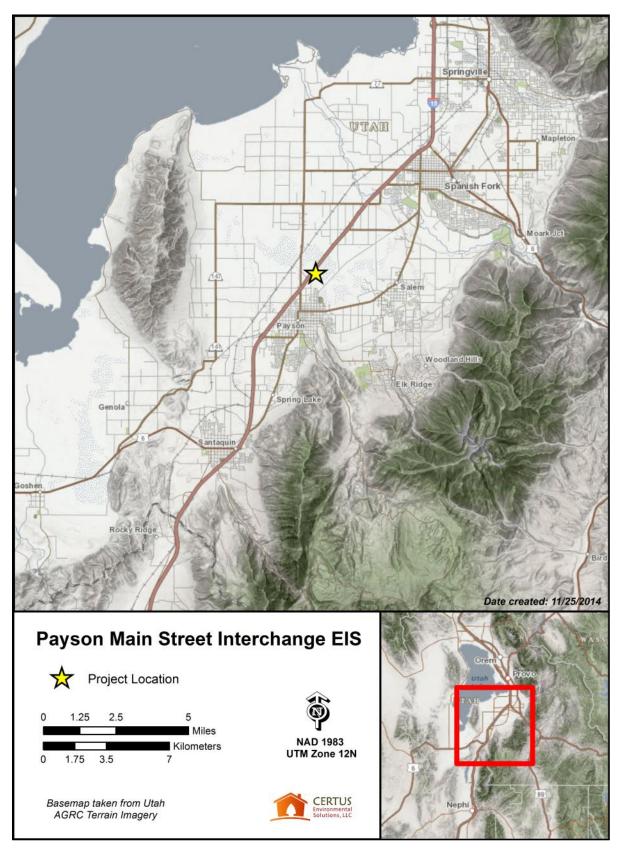


Figure 1. General project location; I-15 Payson Main Street Interchange Project

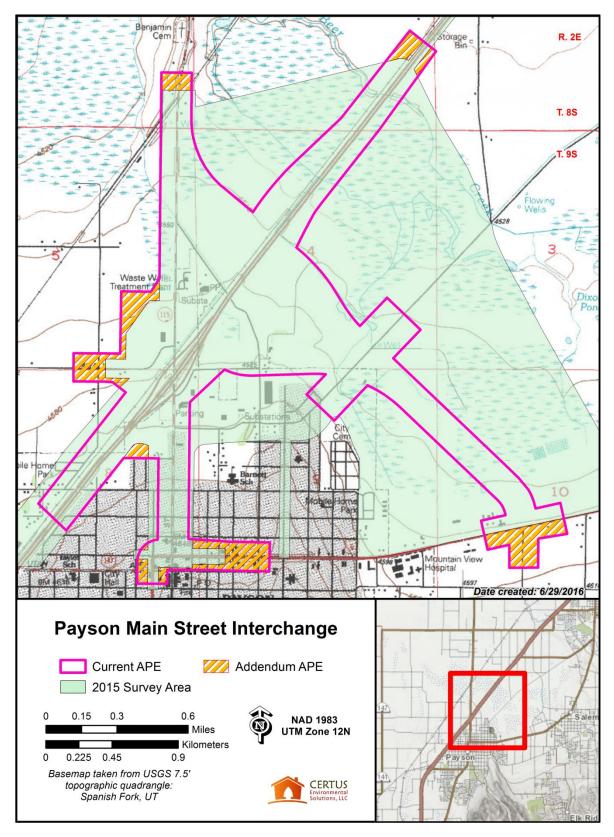


Figure 2. APE/Survey Area; I-15 Payson Main Street Interchange Project—Addendum

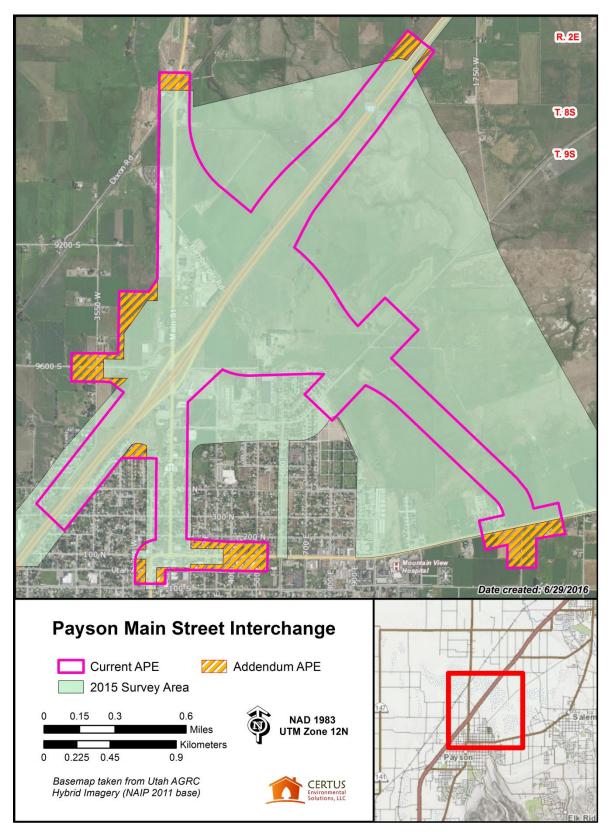


Figure 3. APE/Survey Area; I-15 Payson Main Street Interchange Project—Addendum

The addendum APE/survey area is located in Township 8 South, Range 2 East, Sections 32 and 33 and Township 9 South, Range 2 East, Sections 5 and 8-10 on USGS 7.5' topographic quadrangle Spanish Fork, Utah (see **Figure 2**). Lands subject to the addendum RLS are privately owned.

PROJECT SETTING

The APE/survey area encompasses portions of both the developed core area of Payson and the rural agricultural lands surrounding the community. Lands in the northern and eastern portions of the APE/survey area are almost exclusively undeveloped, comprising open agricultural fields (both active and fallow), grazing pastures, and scattered historical and modern farmsteads. The southern portion of the APE/survey area is dominated by a combination of historical and modern residential and commercial development, while the western part of the area is a mix of residential, agricultural, and industrial uses.

The built environment within the APE/survey area reflects a broad range of development in Payson. The earliest structures in the area are from the late 1800s, while the most recent date to the last few years. Teardown projects wherein historical structures were demolished to accommodate the construction of new structures appear relatively common throughout the area. Major periods of development appear to have occurred in the early 1900s (1900-1930) and in the post-World War II period.

Previous Resource Surveys and Known Historical Structures

Certus conducted a file search on December 8, 2014, for areas within the boundaries of the original APE/survey area and within ½-mile of it (see Ellis 2015). As this area encompasses the current addendum APE, Certus did not conduct a new file search for the current effort. Interested readers are referred to the original report, and the file search results therein are incorporated here by reference.

HISTORIC OVERVIEW

Certus prepared a historic overview as part of the original survey effort. This overview is provided in Ellis 2015 and is incorporated here by reference.

FIELD METHODS

Certus applied the methods outlined in the 2012 Utah SHPO Standard Operating Procedures for selective reconnaissance-level buildings surveys as well as the applicable components of the UDOT cultural resource inventory guidelines (UDOT 2010, as updated). Pursuant to the guidelines for selective reconnaissance-level surveys, Certus only documented those buildings identified as dating to the historic period historic; modern buildings were not documented. Age of construction for each primary building was derived from a combination of estimation based upon architectural characteristics, records from prior documentation, and information obtained from the Utah County Assessor.

UDOT guidelines call for a 45-year age cutoff for considering resources historical—an effort to accommodate a time lag between the compilation of the survey data and actual construction

associated with the undertaking. Given the timing of the field survey late in 2016, Certus employed a cutoff date of 1971 to designate structures as historical.

Each primary historical building on each identified property was assessed for architectural type and style, historical integrity, and other basic architectural details. Each property was photographed using a digital camera set to a minimum resolution of 300 dpi, and photographic index sheets were produced. Upon acceptance by the Utah SHPO of the final historical buildings eligibility ratings, Certus will enter the relevant data for each documented property into the SHPO Preservation Pro online database system.

RESOURCE EVALUATION METHODS

In accordance with 36 CFR § 60, historical structures (and other cultural resources) documented as part of federal undertakings are to be evaluated for their eligibility for the NRHP under four specific criteria and with consideration for seven elements of integrity. A structure may be considered eligible for listing on the NRHP if it:

- A- is associated with events that have made a significant contribution to the broad patterns of our history; OR
- B- is associated with the lives of persons significant in our past; OR
- C- embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction; OR
- D- has yielded, or may be likely to yield, information important in prehistory or history.

Structures considered potentially eligible under one of the above criteria are also to be evaluated for integrity of location, design, setting, materials, workmanship, feeling, and association. To be eligible for listing on the NRHP, a structure must possess integrity of those elements directly related to the criterion or criteria under which it would be determined eligible.

Utah-Specific Considerations for Buildings

In Utah, all historic buildings documented at a reconnaissance-level are also evaluated using a rating system established by the Historic Preservation program at the Utah SHPO. This rating system assigns one of four ratings to buildings based on the degree to which they retain historical and architectural integrity. These ratings are as follows:

- ES Eligible/Significant: built within the historic period and retains integrity; excellent example of a style or type; unaltered or only minor alterations or additions; individually eligible for the [NRHP] under criterion "C"; also buildings of known historical significance.
- EC Eligible/Contributing: built within the historic period and retains integrity; good example of a style or type, but not as well-preserved or well-executed as "ES" buildings; more substantial alterations or additions than "ES" buildings, though overall integrity is retained; eligible for [the NRHP] as part of a potential historic district or primarily for historical, rather than architectural, reasons.

- NC Ineligible/Non-Contributing: built during the historic period but has had major alterations or additions; no longer retains integrity.
- OP Ineligible/Out-of-period: constructed outside the historic period.

The interaction between the SHPO ratings system and the criteria of the NRHP focuses on NRHP Criteria A and C and SHPO ratings ES and EC. Buildings assigned a SHPO rating of "ES" are considered eligible for listing under NRHP both Criteria A and C (Giraud 2007). Buildings assigned a SHPO rating of "EC" are considered eligible for the NRHP under Criterion A only (Giraud 2007).

Historical Boundaries

To evaluate potential impacts to historic properties resulting from implementation of the proposed roadway improvements, appropriate historical boundaries must be established. National Register Bulletin 21, Defining Boundaries for National Register Properties (Seifert et al. 1997), offers guidance on how to establish such boundaries. The Bulletin offers the following recommendations for defining property boundaries associated with historical buildings:

- Select boundaries that encompass the entire resource, including both historic and modern additions. Include surrounding land historically associated with the resource that retains integrity and contributes to the property's historic significance.
- Use the legally recorded parcel number or lot lines for urban and suburban properties that retain their historic boundaries and integrity.
- For small rural properties, select boundaries that encompass significant resources, including outbuildings and the associated setting.
- For larger rural properties, select boundaries that include fields, forests, and open rangeland that is historically associated with the property and conveys the property's historic setting. The areas included must have integrity and contribute to the property's historic significance.

The addendum APE for the Main Street Interchange Project is both urban and rural in nature. For the identified urban properties, the current legal boundaries for each parcel represent either the original historical boundaries or the sole remaining component of the original boundary as it is associated with the primary building. In these cases, current legal property boundaries were used to define the boundaries for most of the historic buildings in the APE. For rural properties (e.g., farmsteads) historical boundaries may include agricultural fields listed under separate parcel numbers from those containing the primary residence. In these cases, Certus made an effort to identify historically associated lands and include them in the definition of the historical boundary.

In certain cases, the property associated with a historical structure has lost, or otherwise does not possess, the ability to contribute to the historical integrity of the primary historical structure. For example, residential property that has been paved to create a parking lot to accommodate customer parking for a former residence converted to commercial use no longer contributes to the historical residential nature of the primary building. In these cases, the boundary for the purpose of assessing the effects of the undertaking was defined to only encompass those features of the property that contribute to understanding and evaluating its historical use.

FINDINGS

A total of 55 properties with historical structures were identified as a result of the addendum selective reconnaissance-level survey for the Interchange Project. Additionally, the addendum APE/survey area encompasses portions of the Payson National Register Historic District. The locations of the properties and the approximate boundaries of the historic district are illustrated on **Figures 4-6**, and descriptions of the properties are summarized in **Table 1**, below.

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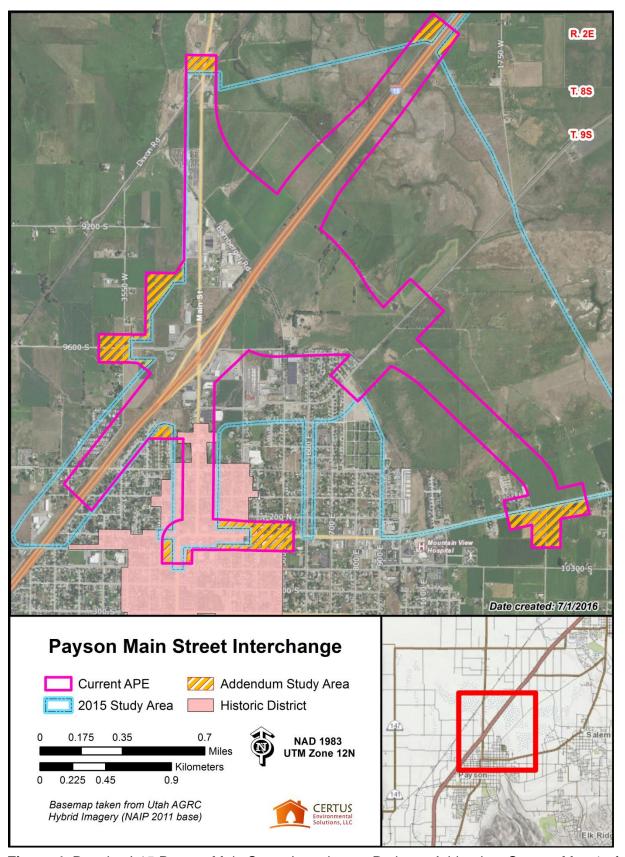


Figure 4. Results; I-15 Payson Main Street Interchange Project—Addendum Survey; Map 1 of 3

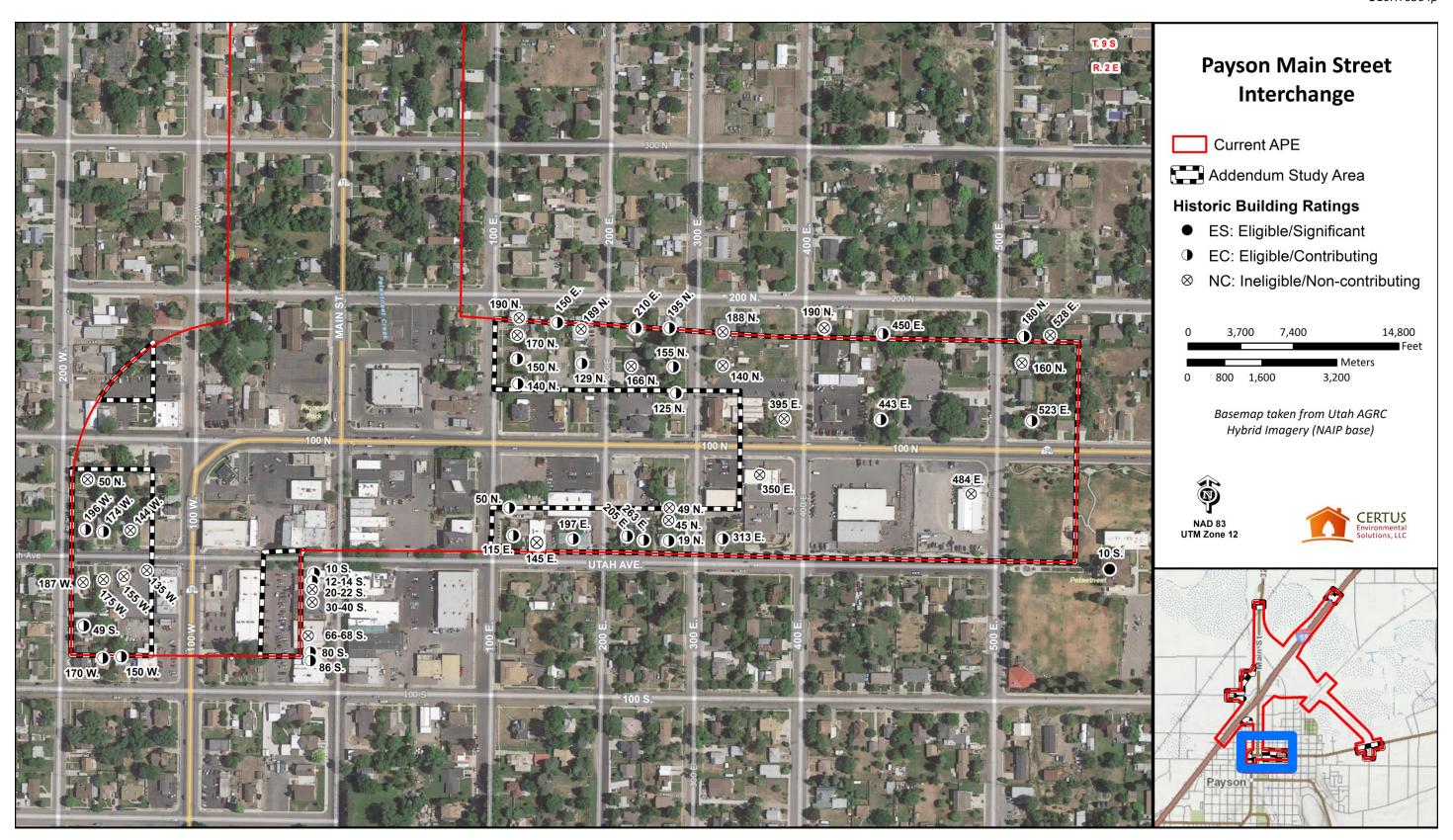


Figure 5. Documented resources; I-15 Payson Main Street Interchange Project—Addendum Survey; Map 2 of 3

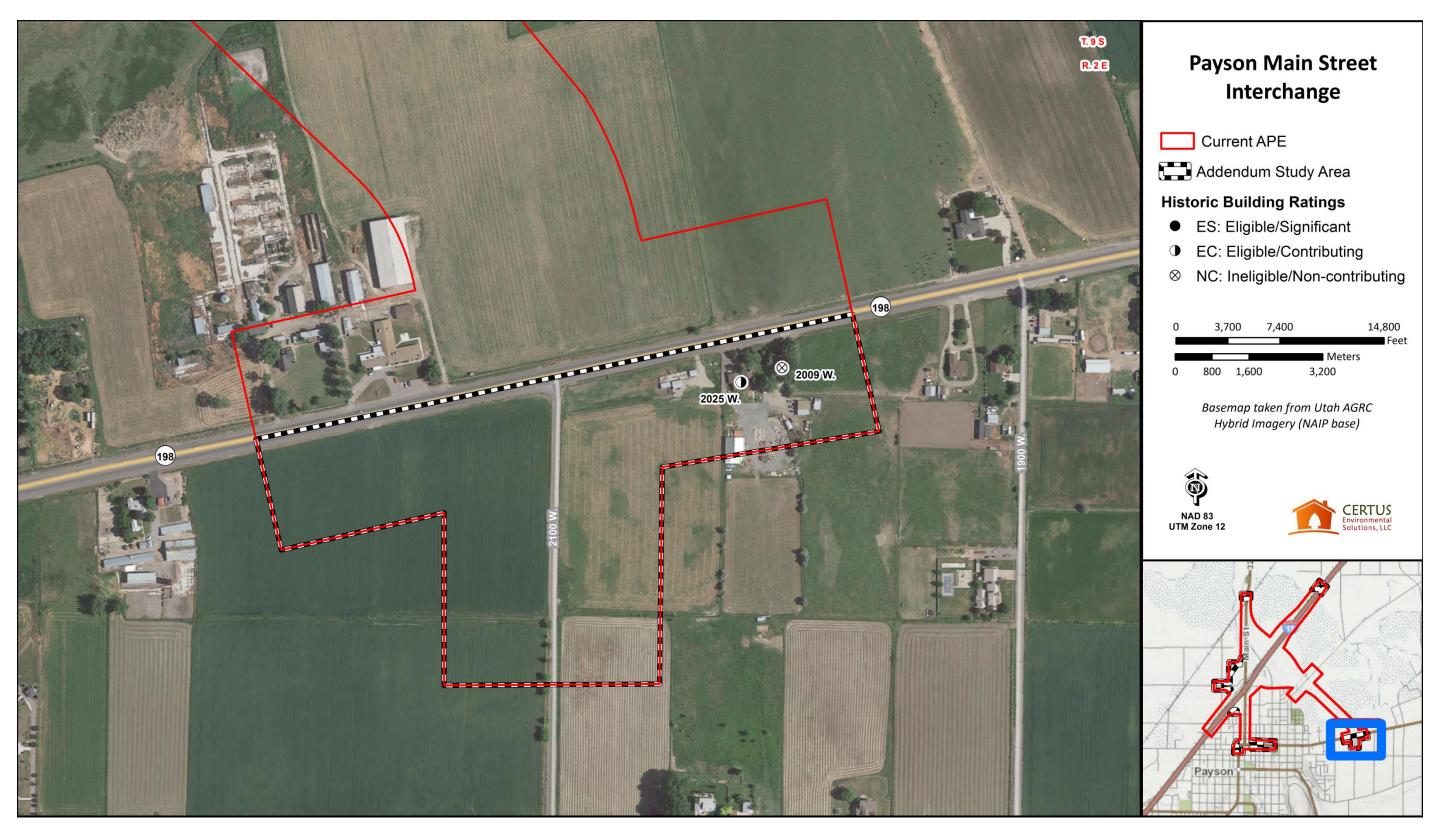


Figure 6. Documented resources; I-15 Payson Main Street Interchange Project—Addendum Survey; Map 3 of 3

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
50 N. 100 E.	c. 1930	1-story Bungalow single-family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in regular brick and shiplap siding. No notable alterations. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
140 N. 100 E.	c. 1928	1-story Bungalow single-family dwelling exhibiting Bungalow and Period Revival: Other styles. Clad in striated brick. Notable alterations include modern windows in several openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
150 N. 100 E.	c. 1922	1-story Bungalow single-family dwelling exhibiting Bungalow and Prairie School styles. Clad in regular brick. Notable alterations include modern windows throughout. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
170 N. 100 E.	c. 1941	1.5-story Period Cottage single-family exhibiting Period Revival: Other style. Clad in plaster. Notable alterations include the plaster cladding, a dormer addition, and changes to fenestration. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
190 N. 100 E.	c. 1940	1-story WWII-Era Cottage single-family dwelling exhibiting Minimal Traditional and Other styles. Clad in narrow vinyl siding. Notable alterations	NC/Ineligible	
		include the modern cladding, changes to window openings, modern windows throughout, and several additions of unknown age. No outbuildings were observed.		
		Historic Boundary: N/A		H++H; HHIII
350 E. 100 N.	c. 1970	1-story Other Commercial/Public building exhibiting Victorian Eclectic and Other styles. Clad in brick veneer (brick: other), sandstone veneer, and synthetic stucco. Notable alterations include a complete modern exterior remodel. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
395 E. 100 N.	c. 1938	1-story Period Cottage single-family dwelling exhibiting Period Revival: Other style. Clad in synthetic stucco. Notable alterations include the modern cladding and modern windows in several openings. One non-contributing outbuilding was observed.	NC/Ineligible	
		Historic Boundary: N/A		
dwelling exhibiting Classical: C Traditional styles. Clad in regu alterations include modern wi openings with minor changes ca. 1940s façade addition. No	1.5-story Other Residential Type single-family dwelling exhibiting Classical: Other and Minimal Traditional styles. Clad in regular brick. Notable alterations include modern windows in several openings with minor changes to openings and a ca. 1940s façade addition. No outbuildings were observed.	EC/Eligible		
		Historic Boundary: Current legal parcel boundary		
484 E. 100 N.	c. 1950	1-story Service Bay/Business building exhibiting Post-WWII: Other style. Clad in concrete block and aluminum sheet. Notable alterations include modern windows in several openings and a large out-of-period addition. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
523 E. 100 N.	c. 1915	2-story Bungalow single-family dwelling exhibiting Prairie School and Other styles. Clad in regular brick. Notable alterations include modern windows throughout. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
150 W. 100 S.	c. 1910	1-story Crosswing single-family dwelling exhibiting Victorian Eclectic style. Clad in regular brick. Notable alterations include a rear addition (likely in-period), modern windows throughout, and a carport addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
170 W. 100 S.	c. 1942	1-story Early Ranch single-family dwelling exhibiting Early Ranch and Minimal Traditional styles. Clad in striated brick. Notable alterations include modern windows throughout with a possible bay window addition. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
129 N. 200 E.	c. 1966	1-story Ranch (w/ carport) single-family dwelling exhibiting Ranch/Rambler style. Clad in Roman brick, stone veneer, and vinyl siding. Notable alterations include modern windows throughout and minor use of vinyl siding on gable walls. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
166 N. 200 E.	c. 1968	1-story Ranch (w/ garage) single-family dwelling exhibiting Ranch/Rambler style. Clad in Roman brick and synthetic stucco. Notable alterations include modern windows throughout and enclosure of the attached garage. One noncontributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
189 N. 200 E.	c. 1930	1.5-story Other Residential Type single-family dwelling exhibiting Other style. Clad in brick veneer (brick: other) and vinyl siding. Notable alterations include the modern cladding, changes to fenestration, and enclosure of an attached garage. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
150 E. 200 N.	c. 1948	1-story Early Ranch single-family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in striated brick. Notable alterations include modern windows throughout. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	E II - B
240 F 200 N	. 1050		CO/Climble	
210 E. 200 N.	c. 1959	1-story Ranch single-family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. Notable alterations include modern windows throughout. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
450 E. 200 N.	c. 1929	2-story Other Residential Type single-family dwelling exhibiting Minimal Traditional and Early Ranch styles. Clad in striated brick and vinyl. Notable alterations include the minor use of vinyl siding, a carport addition, a small second story on the rear part of the roof. One contributing and one non-contributing outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
528 E. 200 N.	c. 1933	1-story Other Residential Type single-family dwelling exhibiting Other style. Clad in vinyl siding and stone veneer. Notable alterations include a modern exterior remodel with new cladding and windows. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
50 N. 200 W.	c. 1919	1-story Bungalow single-family dwelling exhibiting Bungalow and Other styles. Clad in aluminum siding. Notable alterations include the modern cladding, modern windows in many openings, and ca. 1950s porch posts. One contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	
49 S. 200 W.	c. 1950	1-story WWII-Era Cottage single-family dwelling exhibiting Minimal Traditional style. Clad in striated brick. Notable alterations include modern windows in several openings and a front porch deck addition. One non-contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
19 N. 300 E.	c. 1911	1.5-story Bungalow single-family dwelling exhibiting Arts & Crafts style. Clad in regular brick and shiplap siding. Notable alterations include modern windows throughout with minor opening changes on a side elevation. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
45 N. 300 E.	c. 1940	1-story WWII-Era Cottage single-family dwelling exhibiting Minimal Traditional style. Clad in narrow vinyl siding. Notable alterations include the modern cladding and modern windows throughout. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
49 N. 300 E.	c. 1941	1-story WWII-Era Cottage single-family dwelling exhibiting Minimal Traditional and Other styles. Clad in plaster and brick veneer (brick: other). Notable alterations include changes to cladding and fenestration. One contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
125 N. 300 E.	c. 1909	1.5-story Bungalow single-family dwelling exhibiting Arts & Crafts style. Clad in drop siding and shingle siding. Notable alterations include modern windows in several openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
140 N. 300 E.	c. 1938	1-story Period Cottage single-family dwelling exhibiting Period Revival: Other and Minimal Traditional styles. Clad in narrow vinyl siding. Notable alterations include the modern cladding and modern windows in several original openings. Two non-contributing outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
· · · · · · · · · · · · · · · · · · ·	1-story Hall-Parlor single-family dwelling exhibiting Other style. Clad in historical plaster. Notable alterations include a Period Revival style porch. One contributing outbuilding was observed.	EC/Eligible		
		Historic Boundary: Current legal parcel boundary		

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
c. 1898	1-story Bungalow single-family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in historical plaster and vinyl siding. Notable alterations include modern windows throughout and the modern vinyl cladding. Inverted porch columns are unusual and may be a post-construction alteration. No outbuildings were observed.	NC/Ineligible	
4000	• •	50/51: 11.1	
c. 1893	exhibiting Greek Revival style. Clad in historical plaster. Notable alterations include an in-period rear addition, an out-of-period carport addition, and modern windows in many openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
c. 1890	1-story Other Residential Type single-family dwelling exhibiting Other style. Clad in synthetic stucco. Notable alterations include the modern cladding, modern windows throughout, and metal roofing on the front porch cover. One contributing and two non-contributing outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	
	c. 1898	c. 1898 1-story Bungalow single-family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in historical plaster and vinyl siding. Notable alterations include modern windows throughout and the modern vinyl cladding. Inverted porch columns are unusual and may be a post-construction alteration. No outbuildings were observed. Historic Boundary: N/A c. 1893 2-story Central Passage single-family dwelling exhibiting Greek Revival style. Clad in historical plaster. Notable alterations include an in-period rear addition, an out-of-period carport addition, and modern windows in many openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary c. 1890 1-story Other Residential Type single-family dwelling exhibiting Other style. Clad in synthetic stucco. Notable alterations include the modern cladding, modern windows throughout, and metal roofing on the front porch cover. One contributing and two non-contributing	c. 1898 1-story Bungalow single-family dwelling exhibiting Bungalow and Arts & Crafts styles. Clad in historical plaster and vinyl siding. Notable alterations include modern windows throughout and the modern vinyl cladding. Inverted porch columns are unusual and may be a post-construction alteration. No outbuildings were observed. Historic Boundary: N/A c. 1893 2-story Central Passage single-family dwelling exhibiting Greek Revival style. Clad in historical plaster. Notable alterations include an in-period rear addition, and modern windows in many openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary c. 1890 1-story Other Residential Type single-family dwelling exhibiting Other style. Clad in synthetic stucco. Notable alterations include the modern cladding, modern windows throughout, and metal roofing on the front porch cover. One contributing and two non-contributing outbuildings were observed.

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
160 N. 500 E.	c. 1948	2-story Other Residential Type single-family dwelling exhibiting Other style. Clad in wood sheet (T-1-11) and clapboard siding. Notable alterations include the wood sheet siding, numerous large additions, and probable changes to fenestration. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible	CHEVROLET
180 N. 500 E.	c. 1964	1-story Ranch (w/ garage) single-family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. No notable alterations. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	
10 S. 600 E.	c. 1900	Peteetneet School. 3.5-story School Block building exhibiting Victorian Romanesque and Post-WWII: Other styles. Clad in regular brick and sandstone. Notable alterations include a ca. 1950s addition and modern windows in several openings. One non-contributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	ES/Eligible Individually listed on NRHP	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
10 S. Main St.	c. 1900	1-story 1-Part Block commercial building exhibiting Period Revival (English Tudor Revival) style. Clad in striated brick. Notable alterations include a ca. 1930s exterior remodel and modern windows in several openings. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Currently listed as contributing to Payson Historic District	
12-14 S. Main St.	c. 1902	2-story 2-Part Block commercial building exhibiting Victorian Eclectic style. Clad in regular brick, rock-faced brick, and synthetic stucco. Notable alterations include in- and out-of-period façade changes and modern windows throughout. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Currently listed as contributing to Payson Historic District	no.
20-22 S. Main St.	c. 1900	2-story 2-Part Block commercial building exhibiting Victorian: Other style. Clad in brick veneer (brick: other) and plaster. Notable alterations include a façade remodel and modern windows throughout. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Currently listed as contributing to Payson Historic District	Auro

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
30-40 S. Main St.	c. 1890	1-story 1-Part Block commercial building exhibiting Late 20 th Century: Other style. Clad in synthetic stucco and marble panels. Notable alterations include the modern cladding. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Currently listed as contributing to Payson Historic District	
66-68 S. Main St.	c. 1934	2-story 2-Part Block commercial building exhibiting Other style. Clad in synthetic stucco, various veneers, and regular brick. Notable alterations include a complete façade remodel with changes in cladding and fenestration. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Currently listed as non-contributing to Payson Historic District	
80 S. Main St.	c. 1891	2-story 2-Part Block commercial building exhibiting Victorian Eclectic style. Clad in regular brick, plaster, and sandstone. Notable alterations include in-period façade changes. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Currently listed as contributing to Payson Historic District	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
86 S. Main St.	c. 1891	2-story 2-Part Block commercial building exhibiting Victorian Eclectic style. Clad in regular brick, striated brick, and sandstone. Notable alterations include modern windows in many openings, minor changes to windows openings, and cladding changes to the lower façade. No outbuildings were observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		
2009 W. SR-198	c. 1914	1-story Crosswing single-family dwelling exhibiting Victorian: Other style. Clad in novelty-style vinyl siding. Notable alterations include the modern cladding, modern windows throughout, and enclosure of the eave returns. No outbuildings were observed.	NC/Ineligible	
		Historic Boundary: N/A		
2025 W. SR-198	c. 1970	1-story Ranch single-family dwelling exhibiting Ranch/Rambler style. Clad in regular brick and vinyl siding. Notable alterations appear limited to minor use of the modern vinyl cladding and modern windows throughout. One contributing outbuilding was observed.	EC/Eligible	
		Historic Boundary: Current legal parcel boundary		

I-15 Payson Main Street Interchange EIS Addendum Structures Repor

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
115 E. Utah Ave.	c. 1900	1.5-story Central-Block-with-Projecting-Bays single-family dwelling exhibiting Victorian Eclectic style. Clad in regular brick, shingle siding, and rock-faced brick. Notable alterations include minor changes to fenestration, modern windows in many openings, and enclosure of the corner porch (likely in-period). No outbuildings were observed.	EC/Eligible Currently listed as contributing to Payson Historic District	
		Historic Boundary: Current legal parcel boundary		75
145 E. Utah Ave.	c. 1950	1-story 1-Part Block commercial building exhibiting Post-WWII: Other and Late 20 th Century: Other (1970s Mansard) styles. Clad in concrete block and ceramic tile. Notable alterations include a 1970s Mansard style awning with metal shingles, the tile veneer, which appears to be a post-construction addition, and minor changes to fenestration. One non-contributing outbuilding was observed.	NC/Ineligible Currently listed as contributing to Payson Historic District	
197 E. Utah Ave.	c. 1956	1-story Ranch single-family dwelling exhibiting Ranch/Rambler style. Clad in striated brick. Notable alterations include modern windows throughout. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Repor

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
205 E. Utah Ave.	c. 1923	2-story Period Cottage single-family dwelling exhibiting Period Revival: Other style. Clad in regular brick and plaster. Notable alterations include in-period additions. No outbuildings were observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Currently listed as contributing to Payson Historic District	
263 E. Utah Ave.	c. 1925	1-story Clipped Gable Cottage single-family dwelling exhibiting Clipped Gable Cottage style. Clad in striated brick and tongue-and-groove siding. Notable alterations include modern windows throughout with some minor changes to one or more openings. One contributing outbuilding was observed.	EC/Eligible Currently listed as contributing to Payson Historic District	
212 F. Litab Avo	a 1061	Historic Boundary: Current legal parcel boundary	FC/Fligible	
313 E. Utah Ave.	c. 1961	 1.5-story Split Level (w/ carport) single-family dwelling exhibiting Split Level style. Clad in Roman brick and original aluminum siding. No notable alterations. No outbuildings were observed. Historic Boundary: Current legal parcel boundary 	EC/Eligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
c. 1950	1-story 1-Part Block commercial building exhibiting Other style. Clad in wood sheet (T-1-11) and concrete block. Notable alterations include a false Victorian front and changes to window openings. No outbuildings were observed.	NC/Ineligible Currently listed as non-contributing to Payson Historic District	
	Historic Boundary: N/A		
c. 1910	2-story Central Passage single-family dwelling exhibiting Victorian Eclectic and Other styles. Clad in shiplap siding, shingle siding, and wood sheet (T-1-11). Notable alterations include changes to the cladding and fenestration. No outbuildings were observed.	NC/Ineligible Currently listed as contributing to Payson Historic District	
	Historic Boundary: N/A		
c. 1944	1-story 1-Part Block commercial building exhibiting Late 20 th Century style. Clad in synthetic stucco. Notable alterations include the modern cladding, changes to window openings, and a modern awning on the primary façade. No outbuildings were observed. Historic Boundary: N/A	NC/Ineligible Currently listed as contributing to Payson Historic District	
	c. 1950 c. 1910	c. 1950 1-story 1-Part Block commercial building exhibiting Other style. Clad in wood sheet (T-1-11) and concrete block. Notable alterations include a false Victorian front and changes to window openings. No outbuildings were observed. Historic Boundary: N/A c. 1910 2-story Central Passage single-family dwelling exhibiting Victorian Eclectic and Other styles. Clad in shiplap siding, shingle siding, and wood sheet (T-1-11). Notable alterations include changes to the cladding and fenestration. No outbuildings were observed. Historic Boundary: N/A c. 1944 1-story 1-Part Block commercial building exhibiting Late 20 th Century style. Clad in synthetic stucco. Notable alterations include the modern cladding, changes to window openings, and a modern awning on the primary façade. No outbuildings were observed.	c. 1950 1-story 1-Part Block commercial building exhibiting Other style. Clad in wood sheet (T-1-11) and concrete block. Notable alterations include a false Victorian front and changes to window openings. No outbuildings were observed. Historic Boundary: N/A c. 1910 2-story Central Passage single-family dwelling exhibiting Victorian Eclectic and Other styles. Clad in shiplap siding, shingle siding, and wood sheet (T-1-11). Notable alterations include changes to the cladding and fenestration. No outbuildings were observed. Historic Boundary: N/A c. 1944 1-story 1-Part Block commercial building exhibiting Late 20 th Century style. Clad in synthetic stucco. Notable alterations include the modern cladding, changes to window openings, and a modern awning on the primary façade. No outbuildings were observed. District NC/Ineligible NC/Ineligible Currently listed as contributing to Payson Historic District Currently listed as contributing to Payson Historic District

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
174 W. Utah Ave.	c. 1919	1-story Bungalow single-family dwelling exhibiting Bungalow and Prairie School styles. Clad in striated brick and plaster. Notable alterations include modern windows in several openings and a basement entry addition on a side elevation. One contributing outbuilding was observed.	EC/Eligible Currently listed as contributing to Payson Historic District	
		Historic Boundary: Current legal parcel boundary		
175 W. Utah Ave.	c. 1931	1-story WWII-Era Cottage (w/ garage) single-family dwelling exhibiting Minimal Traditional style. Clad in regular brick and stucco. Notable alterations include minor changes to fenestration, enclosure of the attached garage, and a possible post-construction chimney addition. One non-contributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible Currently listed as contributing to Payson Historic District	
187 W. Utah Ave.	c. 1935	1-story Bungalow single-family dwelling exhibiting Bungalow and Clipped Gable Cottage styles. Clad in regular brick, stone veneer, and vinyl siding. Notable alterations include a second story addition, modern stone veneer and vinyl cladding, modern windows through with some changes to window openings. One noncontributing outbuilding was observed. Historic Boundary: N/A	NC/Ineligible	

I-15 Payson Main Street Interchange EIS Addendum Structures Report U16HY0504p

Table 1. Historical structures in the Addendum Study Area—I-15 Payson Main Street Interchange Project

Address	Year Built	Description and Historic Boundary	SHPO Rating/ NRHP Eligibility	Photo
196 W. Utah Ave.	c. 1920	1-story Bungalow single-family dwelling exhibiting Bungalow and Prairie School styles. Clad in regular brick. Notable alterations limited to modern windows in many openings. One noncontributing outbuilding was observed. Historic Boundary: Current legal parcel boundary	EC/Eligible Currently listed as contributing to Payson Historic District	

SUMMARY AND CONCLUSIONS

Certus conducted a supplemental selective reconnaissance-level structures inventory for the I-15 Payson Main Street Interchange Project in Payson, Utah County, Utah, in support of UDOT's proposed interchange improvements. The assessment resulted in the identification of 55 properties with historical structures. Portions of the Payson (National R0of the properties receive SHPO ratings of "ES" or "EC" and be considered eligible for the NRHP. One of these properties—the Peteetneet School—is individually listed on the NRHP while several others are listed as contributing features of the Payson Historic District. Certus recommends the remaining 25 properties receive SHPO ratings of "NC" and be considered ineligible for the NRHP. **Table 2** summarizes these recommendations.

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
50 N. 100 E.	EC	Eligible
140 N. 100 E.	EC	Eligible
150 N. 100 E.	EC	Eligible
170 N. 100 E.	NC	Ineligible
190 N. 100 E.	NC	Ineligible
350 E. 100 N.	NC	Ineligible
395 E. 100 N.	NC	Ineligible
443 E. 100 N.	EC	Eligible
484 E. 100 N.	NC	Ineligible
523 E. 100 N.	EC	Eligible
150 W. 100 S.	EC	Eligible
170 W. 100 S.	EC	Eligible
129 N. 200 E.	EC	Eligible
166 N. 200 E.	NC	Ineligible
189 N. 200 E.	NC	Ineligible
150 E. 200 N.	EC	Eligible
210 E. 200 N.	EC	Eligible
450 E. 200 N.	EC	Eligible
528 E. 200 N.	NC	Ineligible
50 N. 200 W.	NC	Ineligible
49 S. 200 W.	EC	Eligible
19 N. 300 E.	EC	Eligible
45 N. 300 E.	NC	Ineligible
49 N. 300 E.	NC	Ineligible
125 N. 300 E.	EC	Eligible
140 N. 300 E.	NC	Ineligible
155 N. 300 E.	EC	Eligible
188 N. 300 E.	NC	Ineligible
195 N. 300 E.	EC	Eligible
190 N. 400 E.	NC	Ineligible
160 N. 500 E.	NC	Ineligible
180 N. 500 E.	EC	Eligible
10 S. 600 E.	ES^3	Eligible
10 S. Main St.	EC^1	Eligible

Table 2. Summary of Historic Structures and National Register Eligibility Recommendations

Address	SHPO Rating	NRHP Eligibility
12-14 S. Main St.	EC ¹	Eligible
20-22 S. Main St.	NC^2	Ineligible
30-40 S. Main St.	NC^2	Ineligible
66-68 S. Main St.	NC	Ineligible
80 S. Main St.	EC^1	Eligible
86 S. Main St.	EC	Eligible
2009 W. SR-198	NC	Ineligible
2025 W. SR-198	EC	Eligible
115 E. Utah Ave.	EC ¹	Eligible
145 E. Utah Ave.	NC^2	Ineligible
197 E. Utah Ave.	EC	Eligible
205 E. Utah Ave.	EC ¹	Eligible
263 E. Utah Ave.	EC^1	Eligible
313 E. Utah Ave.	EC	Eligible
135 W. Utah Ave.	NC	Ineligible
144 W. Utah Ave.	NC^2	Ineligible
155 W. Utah Ave.	NC ²	Ineligible
174 W. Utah Ave.	EC ¹	Eligible
175 W. Utah Ave.	NC^2	Ineligible
187 W. Utah Ave.	NC	Ineligible
196 W. Utah Ave.	EC ¹	Eligible

¹ Listed as part of Payson Historic District

Anticipated effects on the historic properties from the proposed interchange project were not known to Certus at the time of this report. Those effects will be assessed by UDOT and documented in a determination of eligibility and finding of effect (DOE-FOE) letter.

² Listed as part of Payson Historic District but recommended ineligible due to alterations

³ Individually listed on NRHP

REFERENCES CITED

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APPENDIX B

TECHNICAL REPORTS

WETLAND AND WATERS OF THE U.S. DELINEATION I-15 PAYSON MAIN STREET INTERCHANGE ENVIRONMENTAL IMPACT STATEMENT

Wetland and Waters of the U.S. Delineation

I-15 Payson Main Street Interchange EIS Utah County, Utah



April 2017 Wetland Resources



Wetland and Waters of the U.S. Delineation

I-15 Payson Main Street Interchange EIS UDOT Project No. F-I15-6(214)251; PIN 10263

Prepared for:

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April 2017

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A. Introduction

A Wetland and Waters of the U.S. delineation was conducted in October 2015, May 2016, and April 2017 for a potential new interchange on Interstate 15 (I-15) in Payson, Utah (Appendix A: Map 1). The delineation was prepared for Lochner Engineering who is providing environmental and engineering services for the Utah Department of Transportation on the project. The project area is located in the vicinity of the existing Payson Main Street interchange on I-15, and includes mostly agricultural lands with a few residential areas. To get to the project area from Salt Lake City, travel south on I-15 to the Payson Main Street exit at milepost 251.

The environmental review, consultation and other actions required by applicable Federal environmental laws for this project are being or have been carried-out by UDOT pursuant to 23 USC 327 and a Memorandum of Understanding dated January 17, 2017, and executed by FHWA and UDOT.

B. METHODOLOGY

Wetland Resources surveyed the project area for wetlands, natural stream channels, canals, and ditches on October 12 through 14, 2015, and May 9 through 11, 2016. There had not been any significant recent precipitation, temperatures were normal, and northern Utah was experiencing mild drought conditions during the 2015 and 2016 fieldwork. Northern Utah was not experiencing any drought conditions during the 2017 fieldwork.

Wetlands

The wetland delineation was completed in accordance with the U.S. Army Corps of Engineers' 1987 Wetland Delineation Manual (USACOE 1987) and the Arid West Supplement (USACOE 2008). All potential wetland areas were checked for wetland indicators. The following procedure was implemented at each sample point:

- 1. The herbaceous and shrub plant species within a five foot radius of the sample point were recorded, as directed in the 1987 Manual (USACOE 1987). A 30 foot radius was used for tree species (USACOE 1987). The percent of relative cover for each species was determined by estimating areal cover. The indicator status of each species was determined by using the National Wetland Plant List: Arid West (Lichvar 2016). If a plant species comprised at least 20 percent of the total relative cover in its stratum, it was considered to be a dominant plant species. If more than 50 percent of the dominant plant species had an indicator status of obligate (OBL), facultative wetland (FACW), or facultative (FAC), the sample point met the wetland vegetation parameter.
- 2. A 20 inch-deep soil pit was dug at each sample point to assess soil characteristics. Soil color, texture, and moisture at different depths within the soil profile were recorded. Color was determined by comparing a moistened soil sample with the Munsell Soil Color Charts. If the soil characteristics met the hydric soil criteria provided in the Arid West Supplement and the Field Indicators of Hydric Soils (NRCS 2006) manuals, the sample point met the wetland soils parameter.

3. Each soil pit was examined to determine correlation with the wetland hydrology criteria. Field indicators of periodic saturation and/or inundation include redox features, drainage patterns in the wetland, sulfur odor, gleyed soils, soils with low chroma, sediment deposits, salt crust, surface soil cracks, or water stained leaves. If at least one primary indicator or two secondary indicators were present, the sample point met the wetland hydrology parameter.

If a sample point met all three parameters, it was classified as occurring in a wetland. Wetland boundaries were surveyed by Wetland Resources using a sub-meter accuracy Trimble GPS unit.

Waters of the U.S. Channels

The Waters of the U.S. channel survey was conducted in accordance with the Field Guide to the Identification of the Ordinary High Water Mark (OHWM) in the Arid West Region of the Western United States (Lichvar and McColley 2008), and the Updated Datasheet for the Identification of the Ordinary High Water Mark in the Arid West Region of the Western United States (Curtis and Lichvar 2010). The Waters of the U.S. channels were surveyed using a sub-meter GPS unit. OHWM data sheets were completed for Waters of the U.S. channels that were not ditches.

Irrigation Ditches and Canals

Irrigation ditches and canals were surveyed using a sub-meter GPS unit, but no OHWM data sheets were completed for these features. Recent EPA and Corps guidance states that non-tidal ditches (including roadside and agricultural ditches) are not Waters of the U.S. unless they have a bed, bank, and ordinary high water mark; connect directly or through other tributaries to a traditional navigable or interstate water; and have at least one of the following four characteristics:

- · Natural streams that have been altered (e.g., channelized, straightened or relocated);
- · Ditches that have been excavated in waters of the U.S., including wetlands;
- · Ditches that have relatively permanent flowing or standing water; or
- · Ditches that connect two or more jurisdictional waters of the U.S.

C. RESULTS AND DISCUSSION

Wetlands

The 968-acre project area contains a total of 37.9 acres of wetland. Most of the wetlands within the project area are Palustrine Emergent wetlands, with one small area of Palustrine Scrub Shrub wetland. There are also numerous ditches and irrigation canals within the project area, and one perennial stream. Table 1 provides the wetland acreages, and Table 2 lists all of the wetland plant species identified within the project corridor. Maps showing the project area and the surveyed wetland and Waters of the U.S. boundaries are provided in Appendix A. Photos of the project area are provided in Appendix B, and data sheets supporting the wetland boundaries are provided in Appendix C. Soil descriptions for all soils in the project area is provided in Appendix D. A description of each of the wetland areas follows:

W1 - This Palustrine Emergent wetland occurs in the borrow ditch between I-15 and an abandoned railroad track. The wetland is dominated by Baltic rush with some saltgrass, teasel, reed canary

grass, and common reed. The soils are classified as Benjamin silty clay and were saturated in the upper profile at the time of the delineation. The soils had a matrix color of 10YR5/2 with 2% redox, meeting the criteria for depleted matrix. Hydrology for the wetland appears to be provided by a high water table associated with the lowlands around Beer Creek, where there is an extensive wetland complex. The wetlands are connected to the larger wetland complex by culverts under the railroad grade. Map 4; Sample points 1 through 4; Photo 1.

W2 - This Palustrine Emergent wetland is part of a large wetland complex that occurs in the lowlands south of Beer Creek and west of the abandoned railroad tracks. The wetland supports Baltic rush, Nebraska sedge, beaked sedge, scratchgrass, meadow barley, spikerush, saltgrass, western seepweed, and clustered field sedge. The soils are classified as mostly Payson silty clay loam and were saturated in the upper profile at the time of the delineation. The soils had a matrix color of 10YR5/1, meeting the criteria for depleted matrix. These wetlands extend to the east and west a considerable distance and are supported by a high water table and several groundwater seeps. The wetlands are adjacent to Beer Creek and an irrigation ditch (D2). Maps 4 and 5; Sample points 5 through 16; Photos 2 and 3.

W3 - This Palustrine Emergent wetland is part of the same large wetland complex as Wetland W2, but W3 occurs on the east side of I-15 (W2 is on the west side of I-15 and west of the railroad tracks). The wetland supports Baltic rush, Nebraska sedge, beaked sedge, scratchgrass, meadow barley, spikerush, saltgrass, and clustered field sedge. The soils include Ironton loam, Kirkham silty clay loam, Benjamin silty clay, and Payson silty clay loam. Most of the soils in the wetland complex were either inundated or at least saturated in the upper profile at the time of the delineation. The soils had a matrix color of 10YR2/1 or 10YR4/1 with no redox, which does not meet any of the typical hydric soil indicators. The soils are not particularly alkaline, but based on the wetland vegetation and the saturated soil conditions during the dry season, the soils meet the definition of a hydric soil. These wetlands extend to the east and west a considerable distance and are supported by a high water table and several groundwater seeps. The wetlands are adjacent to Beer Creek and an irrigation ditch (D2). Maps 4 and 5; Sample points 44 through 57; Photos 4 and 5.

W4 - This Palustrine Emergent wetland includes a cattail marsh surrounded by wet meadow vegetation on slopes that are a groundwater discharge zone. The wetland is dominated by cattails in the middle, with the surrounding slopes supporting Baltic rush, Nebraska sedge, hardstem bulrush, spikerush, rabbitfoot grass, and Kentucky bluegrass. The soils are classified as Vineyard fine sandy loam and were saturated near the surface at the time of the delineation. The soils at the south end of the wetland had a matrix color of 10YR3/2 with 5% redox, meeting the criteria for redox dark surface. The soils at the north end of the wetland had a matrix color of 10YR2/1 with no redox, which does not meet any of the typical hydric soil indicators. The soils are not particularly alkaline, but based on the wetland vegetation and the saturated soil conditions during the dry season, the soils meet the definition of a hydric soil. Hydrology for the wetland is provided by the groundwater discharge zone on the surrounding slopes, and by irrigation ditch D2 along its northern boundary. The wetlands are adjacent to an irrigation ditch. Map 6; Sample points 25 through 28 and 40 through 43; Photo 6.

W5 - This Palustrine Emergent wetland occurs in a depression around a groundwater seep. The wetland is dominated by Olney threesquare, spikerush, cursed buttercup, and rabbitfoot grass. The soils are classified as Ironton loam and were inundated approximately 1 inch at the time of the delineation. The soils had a matrix color of 10YR3/1 with no redox, which does not meet any of the typical hydric soil indicators. The soils are not particularly alkaline, but based on the wetland vegetation and the inundated soil conditions during the dry season, the soils meet the definition of a hydric soil. Hydrology for the wetland is provided by the groundwater seep. The wetlands are confined to a closed depression with no surface connection to other Waters of the U.S. Map 7; Sample points 38 and 39; Photo 7.

W6 - This Palustrine Emergent wetland occurs in a depression around a groundwater seep. The wetland is dominated by Olney threesquare, spikerush, and Nebraska sedge. The soils are classified as Ironton loam and were saturated near the surface at the time of the delineation. The soils had a matrix color of 10YR3/1 with no redox, which does not meet any of the typical hydric soil indicators. The soils are not particularly alkaline, but based on the wetland vegetation and the inundated soil conditions during the dry season, the soils meet the definition of a hydric soil. Hydrology for the wetland is provided by the groundwater seep. The wetlands are connected to irrigation ditch D2 via a wetland drainage swale. Map 7; Sample points 36 and 37; Photo 8.

W7 - This Palustrine Emergent wetland occurs in a depression around a groundwater seep. The wetland is dominated by common threesquare, spikerush, rabbitfoot grass, and watercress. The soils are classified as Ironton loam and were inundated in some areas and saturated in the upper profile in other areas at the time of the delineation. The soils had a matrix color of 10YR3/1 with no redox, which does not meet any of the typical hydric soil indicators. The soils are not particularly alkaline, but based on the wetland vegetation and the inundated soil conditions during the dry season, the soils meet the definition of a hydric soil. Hydrology for the wetland is provided by the groundwater seep. The wetlands are connected to irrigation ditch D2 via a wetland drainage swale. Map 7; Sample points 34 and 35; Photo 9.

W8 - This Palustrine Emergent wetland occurs in a depression around an artesian well pipe. The wetland is dominated by Baltic rush, common threesquare, spikerush, rabbitfoot grass, reed canary grass, and hardstem bulrush. The soils are classified as Vineyard fine sandy loam and were saturated in the upper profile at the time of the delineation. The soils had a matrix color of 10YR3/1 with 5% redox, which meets the criteria for redox dark surface. Hydrology for the wetland is provided by the artesian well pipe. The wetlands are connected to irrigation ditch D6 via a wetland drainage swale. Map 8; Sample points 31 and 32; Photo 10.

W9 - This Palustrine Emergent wetland occurs in a grazed pasture near the south end of the project area. The wetland supports Baltic rush, common threesquare, spikerush, rabbitfoot grass, Nebraska sedge, watercress, redtop, scratchgrass, saltgrass, reed canary grass, and foxtail barley. The soils are classified as Bramwell silty clay loam and were saturated in the upper profile at the time of the delineation. The soils had a matrix color of 10YR6/2, which meets the criteria for depleted matrix. Hydrology for the wetland appears to be provided by a groundwater discharge zone on the slopes along the southern boundary of the wetland. The wetlands are connected to irrigation ditch D5 and D6. Map 8; Sample points 29 and 30; Photos 11 and 12.

W10 - This Palustrine Emergent wetland occurs in the borrow ditch on the east side of I-15. The wetland supports rabbitfoot grass, Nebraska sedge, redtop, and reed canary grass. The soils are classified as McBeth silt loam and were dry at the time of the delineation. The soils had a matrix color of 10YR2/2 with 5% redox, which meets the criteria for redox dark surface, and exhibited oxidized rhizospheres, indicating wetland hydrology. Hydrology for the wetland appears to be provided by stormwater runoff from I-15 and the adjacent pastures ponding in this low area of the landscape. The wetland occurs in a closed depression with no culvert outlet. Map 11; Sample points 23 and 24; Photo 13.

W11 - This Palustrine Emergent wetland occurs in a depression adjacent to Main Street. The wetland is dominated by cattails, with some common reed, willow herb, and beaked sedge. The soils are classified as McBeth silt loam and were saturated at the surface at the time of the delineation. The soils had a matrix color of 10YR3/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. The source of hydrology for this wetland is unclear, but it may receive stormwater runoff from the adjacent Payson wastewater treatment facility. The wetland occurs in a manmade depression with no outlet. Map 11; Sample points 19 and 20; Photo 14.

W12 - This Palustrine Emergent wetland occurs around the periphery of a depression that is mostly open water. The wetland fringe Baltic rush, Nebraska sedge, spikerush, and spearmint. The soils are classified as Sunset loam, and were saturated at the surface at the time of the delineation. The soils had a matrix color of 10YR2/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. The source of hydrology for this wetland is unclear, but it may receive stormwater runoff from the Payson wastewater treatment facility that is piped under Main Street from Wetland W10. The wetland occurs in a depression but there is a culvert outlet that ties into a nearby irrigation ditch. Map 11; Sample points 21 and 22; Photo 15.

W13 - This Palustrine Emergent wetland occurs in a grazed pasture on the west side of Main Street. The wetland supports common threesquare, spikerush, Nebraska sedge, clustered field sedge, and cattails. The soils are classified as Sunset loam and were inundated 1 inch at the time of the delineation. The soils had a matrix color of 10YR2/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. Hydrology for the wetland appears to be provided by groundwater discharge that may either be natural or may be coming from an old artesian well pipe located on the southern edge of the wetland. The wetland is connected to ditches that eventually connect to Beer Creek. Map 11; Sample points 58 and 59, 80 and 81; Photo 16.

W14 - This Palustrine Emergent and Palustrine Scrub Shrub wetland occurs in a swale between Main Street and the Payson wastewater treatment facility. The wetland supports Baltic rush, common reed, American licorice, and Nebraska sedge. The north end of the wetland supports a dense stand of coyote willow. The soils are classified as Vineyard fine sandy loam and were saturated at the surface at the time of the delineation, with a water table at a depth of 11 inches. The soils had a matrix color of 10YR5/1, which meets the criteria for depleted matrix. Hydrology for the wetland appears to be provided by either a high water table, and/or from runoff from the treatment facility. The wetland occurs in a manmade depression with no outlet. Map 10; Sample points 60 through 62; Photo 17.

- **W15** This Palustrine Emergent wetland occurs around a groundwater seep in the middle of a cultivated field. The wetland is dominated by common threesquare, hardstem bulrush, spikerush, Baltic rush, and watercress. The soils are classified as Vineyard fine sandy loam and were inundated at the time of the delineation. The soils had a matrix color of 10YR3/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. Hydrology for the wetland is provided by the groundwater seep. The wetlands are surrounded on all sides by the cultivated field and do not exhibit a surface connection to any other wetland or Waters of the U.S. Map 10; Sample points 63 and 64; Photo 18.
- **W16** This Palustrine Emergent wetland occurs in a swale below an artesian well pipe. The wetland is dominated by spikerush, watercress, and cursed buttercup. The soils are classified as Holdaway silt loam and were saturated at the surface at the time of the delineation. The soils had a matrix color of 10YR4/2 with 5% redox, which meets the criteria for depleted matrix. Hydrology for the wetland is provided by the artesian well pipe. The wetlands are connected to irrigation ditches that eventually connect to Beer Creek. Map 9; Sample points 65 and 66; Photo 19.
- **W17 -** This Palustrine Emergent wetland occurs in a depression around an artesian well pipe. The wetland is dominated by Nebraska sedge and spikerush. The soils are classified as Holdaway silt loam and were saturated at the surface at the time of the delineation. The soils had a matrix color of 10YR4/2 with 5% redox, which meets the criteria for depleted matrix. Hydrology for the wetland is provided by the artesian well pipe. The wetlands are surrounded on all sides by uplands with no surface connection to other Waters of the U.S. Map 9; Sample points 67 and 68; Photo 20.
- **W18 -** This Palustrine Emergent wetland occurs in a depression around an artesian well pipe. The wetland is dominated by common threesquare, spikerush, Nebraska sedge, reed canary grass, and cattails. The soils are classified as Taylorsville silty clay loam and were inundated several inches at the time of the delineation. The soils had a matrix color of 10YR4/2 with 5% redox, which meets the criteria for depleted matrix. Hydrology for the wetland is provided by the artesian well pipe. The wetlands are surrounded on all sides by uplands with no surface connection to other Waters of the U.S. Map 9; Sample points 69 and 70; Photo 21.
- **W19 -** This Palustrine Emergent wetland occurs in a depression around an artesian well pipe. The wetland is dominated by watercress, Nebraska sedge, and common threesquare. The soils are classified as Ironton loam and were inundated several inches at the time of the delineation. The soils had a matrix color of 10YR3/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. Hydrology for the wetland is provided by the artesian well pipe. The wetlands are surrounded on all sides by uplands with no surface connection to other Waters of the U.S. Map 6; Sample points 74 and 75; Photo 22.
- **W20** This Palustrine Emergent wetland occurs in a grazed pasture on the west side of Main Street. The wetland supports Baltic rush, common threesquare, spikerush, Nebraska sedge, and clustered field sedge. The soils are classified as McBeth silt loam and were inundated in some areas and saturated near the surface in other areas at the time of the delineation. The soils had a matrix color of 10YR2/1 and emitted a hydrogen sulfide odor when excavated, which meets the criteria for hydric soils and wetland hydrology. Hydrology for the wetland appears to be provided

by a high water table, likely influence by the perennial flow entering the wetland from ditch D-11. The wetland is connected to ditches that eventually connect to Beer Creek. Map 10; Sample points 76 through 79; Photos 23 and 24.

No examples of interstate or foreign commerce were observed or documented in the project area. Much of the project area is used for agricultural purposes, but it is unknown whether any of the landowners are engaging in interstate or foreign commerce. The project area is all private land, so there is no recreation occurring by interstate or foreign travelers.

The uplands in the project area are dominated by tall wheatgrass, meadow fescue, strawberry clover, Canada thistle, saltgrass, and field brome. A complete list of upland species identified in the project area can be found in Table 3. The soils in the upland areas were dry and did not exhibit any indicators of hydric soil or wetland hydrology.

Table 1. Wetland Acreages

Wetland Number	PEM Wetland (acres)	PSS Wetland (acres)	Lat/Long
W-1	1.162	0	40.07438/-111.71459
W-2	9.239	0	40.07306/-111.71672
W-3	13.471	0	40.07285/-111.71471
W-4	2.833	0	40.05987/-111.71896
W-5	0.218	0	40.05767/-111.71718
W-6	0.491	0	40.05642/-111.71718
W-7	1.105	0	40.05439/-111.71838
W-8	0.102	0	40.05178/-111.70844
W-9	3.132	0	40.05046/-111.70670
W-10	0.078	0	40.05862/-111.72891
W-11	0.105	0	40.05965/-111.73203
W-12	0.016	0	40.06016/-111.73258
W-13	1.202	0	40.06081/-111.73392
W-14	0.538	0.233	40.06372/-111.73194
W-15	0.062	0	40.06604/-111.73172
W-16	0.199	0	40.07081/-111.73244
W-17	0.147	0	40.07094/-111.73334
W-18	0.216	0	40.07172/-111.73328
W-19	0.142	0	40.05767/-111.71582
W-20	3.232	0	40.06373/-111.734096
Total	37.69	0.233	

Table 2. Wetland plant species identified in the project area.

Botanical Name	Common Name	Indicator Status ¹
Agrostis stolonifera	redtop	FACW
Carex nebrascensis	Nebraska sedge	OBL
Carex praegracilis	clustered field sedge	FACW
Carex rostrata	beaked sedge	OBL
Distichlis spicata	saltgrass	FAC
Eleocharis palustris	spikerush	OBL
Epilobium ciliatum	fringed willowherb	FACW
Hordeum brachyantherum	meadow barley	FACW
Hordeum jubatum	meadow foxtail	FAC
Juncus Balticus	Baltic rush	FACW
Lepidium latifolium	perennial pepperweed	FAC
Mentha spicata	spearmint	FACW
Muhlenbergia asperifolia	scratchgrass	FACW
Nasturtium officinale	watercress	OBL
Phalaris arundinacea	reed canary grass	FACW
Phragmites australis	common reed	FACW
Polypogon monspeliensis	rabbitfoot grass	FACW
Ranunculus sceleratus	cursed buttercup	OBL
Rumex crispus	curly dock	FAC
Salix exigua	coyote willow	FACW
Schoenoplectus acutus	hardstem bulrush	OBL
Schoenoplectus americanus	Olney threesquare	OBL
Schoenoplectus pungens	common threesquare	OBL
Suaeda occidentalis	western seepweed	FACW
Trifolium fragiferum	strawberry clover	FAC
Typha latifolia	common cattail	OBL

Table 3. Upland plant species identified in the project area.

Botanical Name	Common Name	Indicator Status ¹
Agropyron elongatum	tall wheatgrass	UPL
Atriplex micrantha	twoscale saltbush	UPL
Bromus arvensis	field brome	FACU
Bromus inermis	smooth brome	UPL
Bromus tectorum	cheatgrass	UPL
Cardaria draba	whitetop	UPL
Carduus nutans	musk thistle	FACU
Cirsium arvense	Canada thistle	FACU
Convolvulus arvensis	field bindweed	UPL
Descurainia sophia	flixseed tansy mustard	UPL
Festuca pratensis	meadow fescue	FACU
Grindelia squarrosa	curly cup gumweed	FACU
Lactuca serriola	prickly lettuce	FACU
Poa pratensis	Kentucky bluegrass	FAC
Taraxacum officinale	dandelion	FACU

Waters of the U.S. Channels

The project area includes one perennial stream and one small area of open water. Table 4 provides the dimensions of the Waters of the U.S. within the project area, and an OHWM data form is provided for Beer Creek in Appendix E.

C1 – Beer Creek crosses under I-15 in a concrete box culvert. The channel averages 21 feet in width, and from 1 to 3 feet in depth at the OHWM. Beer Creek maintains a perennial flow and is a tributary to Benjamin Slough, which is a tributary to Utah Lake. Map 4; Photo 25.

C2 – This is a small area of unvegetated open water in a man-made stock pond with a wetland fringe (W12). The small pond has a culvert outlet that connects it to an irrigation ditch (D11), but it is an excavated stock pond. Map 11; Photo 15.

Table 4. Dimensions of Waters of the U.S.

Waters of the U.S.	Linear Feet	Acres	Lat/Long
C-1	738	0.352	40.07307/-111.71694
C-2	36	0.014	40.06018/-111.73253
Total	774	0.366	

Irrigation Ditches and Canals

The project area contains numerous irrigation ditches and canals. Table 5 provides the dimensions of the ditches and canals within the project area, and cross sections of each ditch are provided on Maps 12 and 13. All of the ditches are likely jurisdictional since they support wetland vegetation along their banks and connect with other Waters of the U.S.

- **D1** This irrigation ditch averages 6 feet wide and flows south into Beer Creek. The ditch supports a narrow fringe of reed canary grass within its banks. Map 4; Photo 26.
- **D2** This irrigation ditch flows through the project area for over 5,800 linear feet. It averages 4 feet wide and passes through several of the wetlands within the project area. The ditch supports a narrow fringe of reed canary grass within its banks along much of its length. Maps 5 through 8; Photos 27 and 28.
- **D3** This irrigation ditch averages 8 feet wide and connects with ditch D-2 north of the project area. The ditch supports cattails within its ditch banks. Map 10; Photo 29.
- **D4** This 6 foot wide ditch appears to carry the outflow from the Payson wastewater treatment facility. It flows north and eventually connects to Beer Creek. Map 10; Photo 30.
- **D5** This 5 foot wide ditch appears to be a drainage ditch, not an irrigation ditch, based on the stagnant water and wetland vegetation in the channel. It flows through Wetland W9 and then connects with ditch D-6. Map 8; Photo 31.
- **D6** This irrigation ditch averages 4 feet wide and connects with ditch D-2. The ditch supports a narrow fringe of wetland vegetation along the bank. Map 8; Photo 32.
- **D7** This irrigation ditch averages 3 feet wide and connects with ditch D-2. The ditch supports a narrow fringe of wetland vegetation along the bank. Map 5; Photo 33.
- **D8** This 4 foot wide drainage ditch parallels the east side of I-15 and connects several sections of Wetland W3. It is culverted under I-15 and connects to ditch D-2. Maps 4 and 5; Photo 34.
- **D9** This 4 foot wide drainage ditch supports wetland vegetation within its banks and flows into Beer Creek. Map 4; Photo 35.
- **D10 -** This 4 foot wide irrigation ditch supports reed canary grass within its banks and eventually flows into Beer Creek. A Payson city official reported that this irrigation ditch carries flows from Peteeneet Creek. The USGS topographic maps show Peteeneet Creek ending in downtown Payson at approximately 100 South and 100 East. The Peteeneet Creek channel is piped for much of its length and could potentially flow into this ditch, but this irrigation ditch has other sources of water based on the observation that during one site visit the natural Peteeneet Creek channel where it comes out of Payson Canyon was dry, but the irrigation ditch had flowing water in it. The foreman of the large FRI farm property adjacent to this ditch said that this is one of their irrigation ditches and that they can turn the water on and off as needed. He had never heard of this ditch carrying flows from Peteeneet Creek. Map 11; Photos 36 and 37.

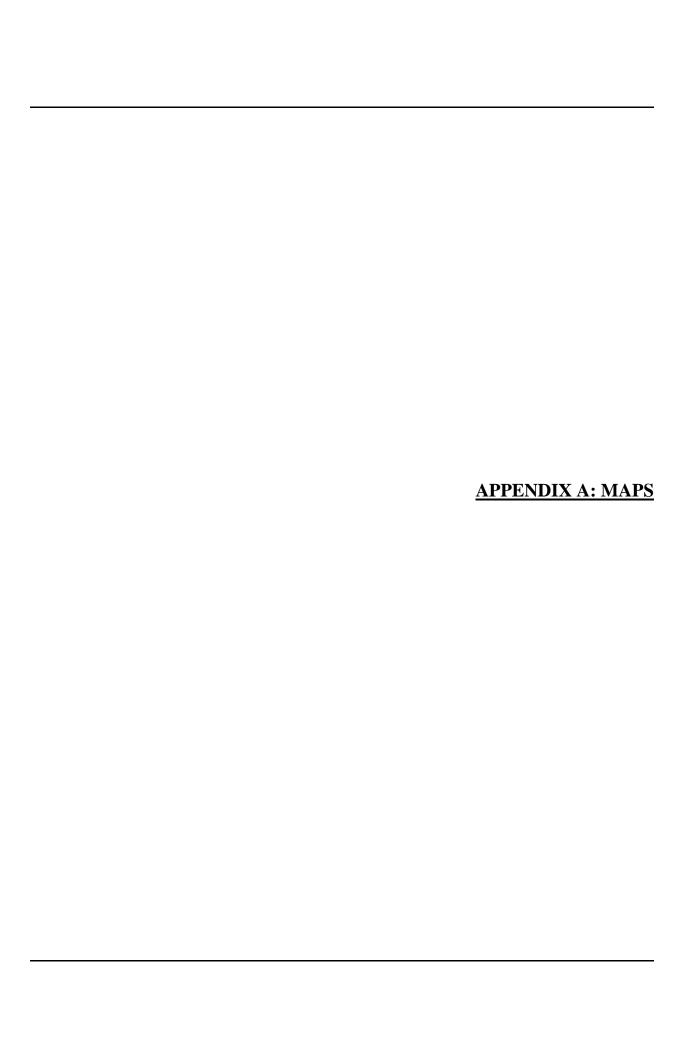
D11 - This ditch varies from 4 to 8 feet wide and supports wetland vegetation within its banks. It eventually flows into Beer Creek. Map 11; Photo 38.

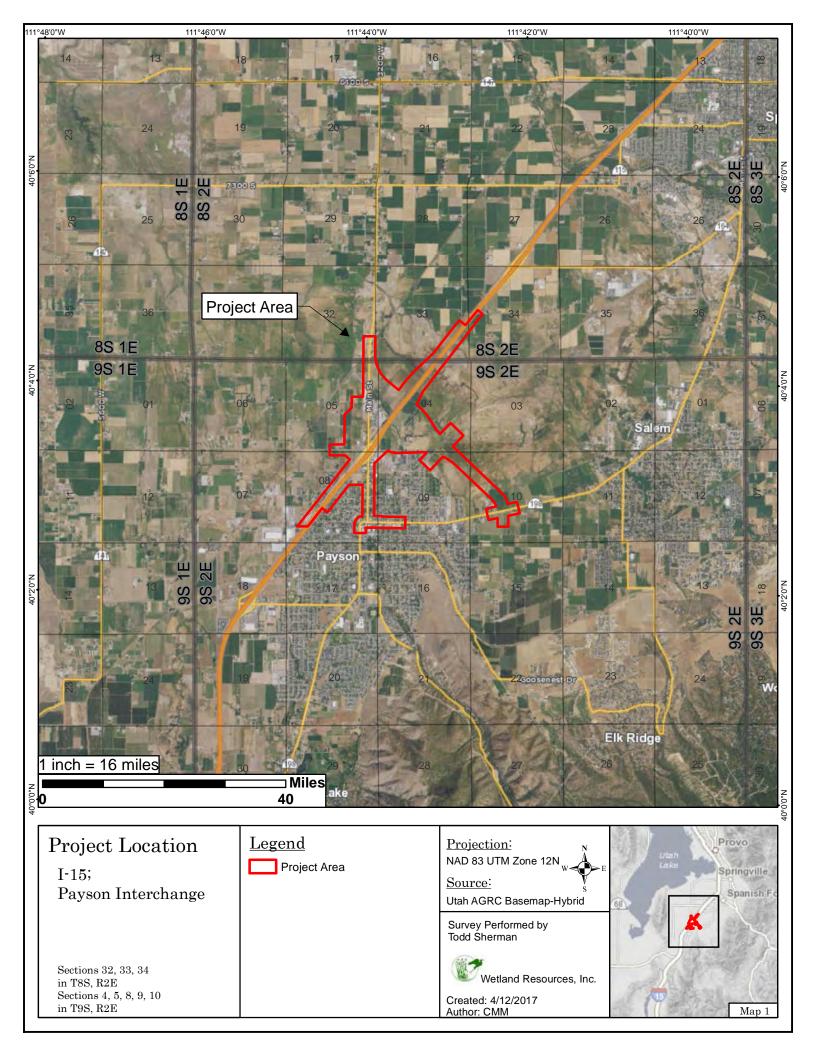
Table 5. Dimensions of Ditches.

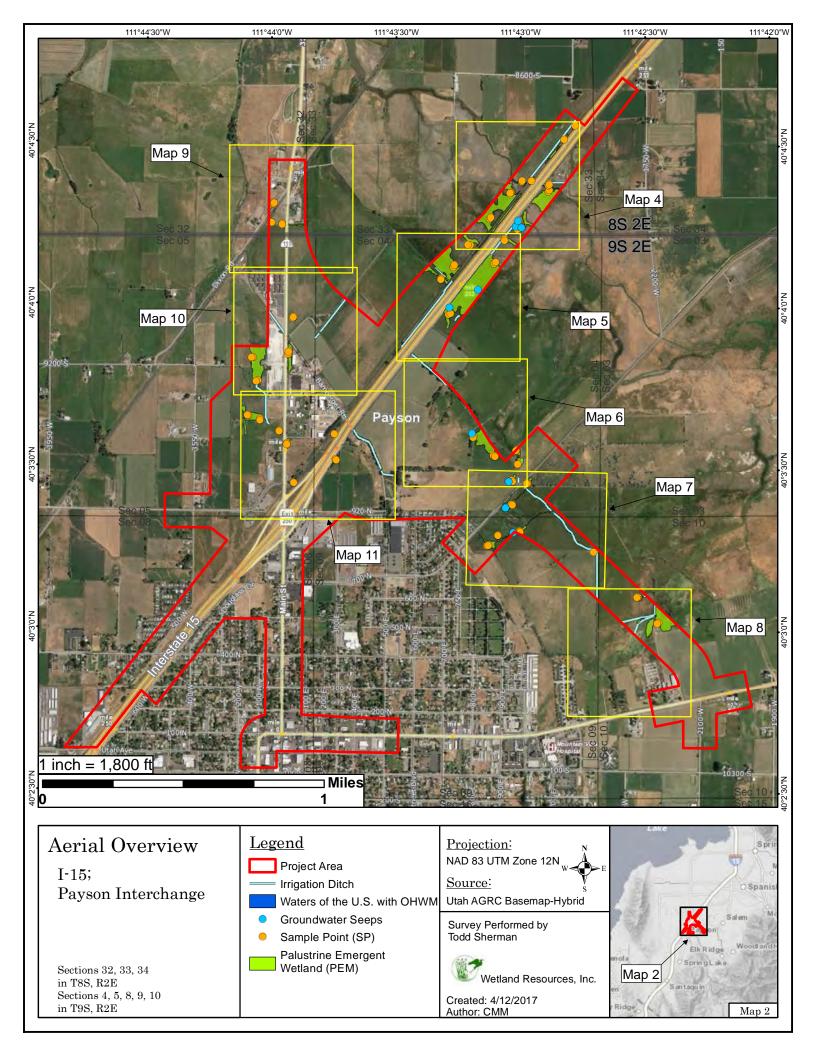
Ditches	Linear Feet	Width	Lat/Long
D-1	1510	6	40.07470/-111.71451
D-2	6964	4	40.06830/-111.72180
D-3	899	8	40.06613/-111.72907
D-4	513	6	40.06581/-111.73291
D-5	548	7	40.05048/-111.70825
D-6	904	4	40.05063/-111.70850
D-7	158	3	40.06606/-111.72080
D-8	583	4	40.07056/-111.71734
D-9	423	4	40.07305/-111.71444
D-10	1266	4	40.06101/-111.72830
D-11	933	8	40.06095/-111.73352
Total	14,701		

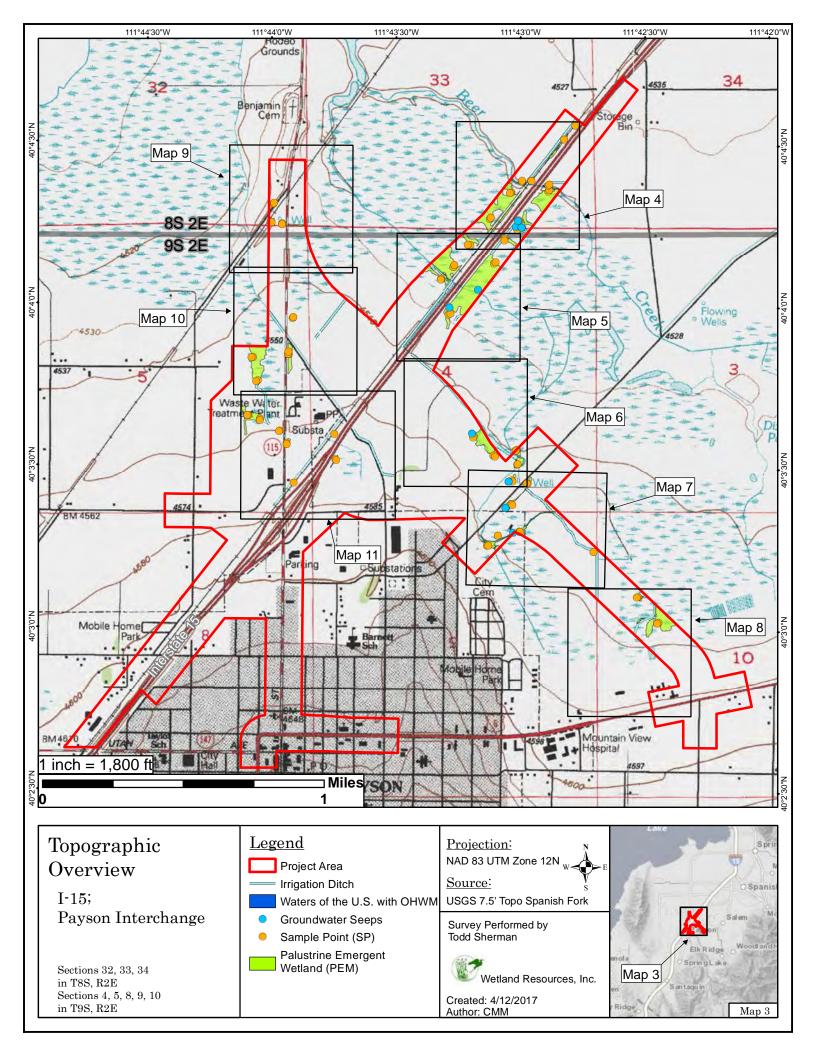
REFERENCES

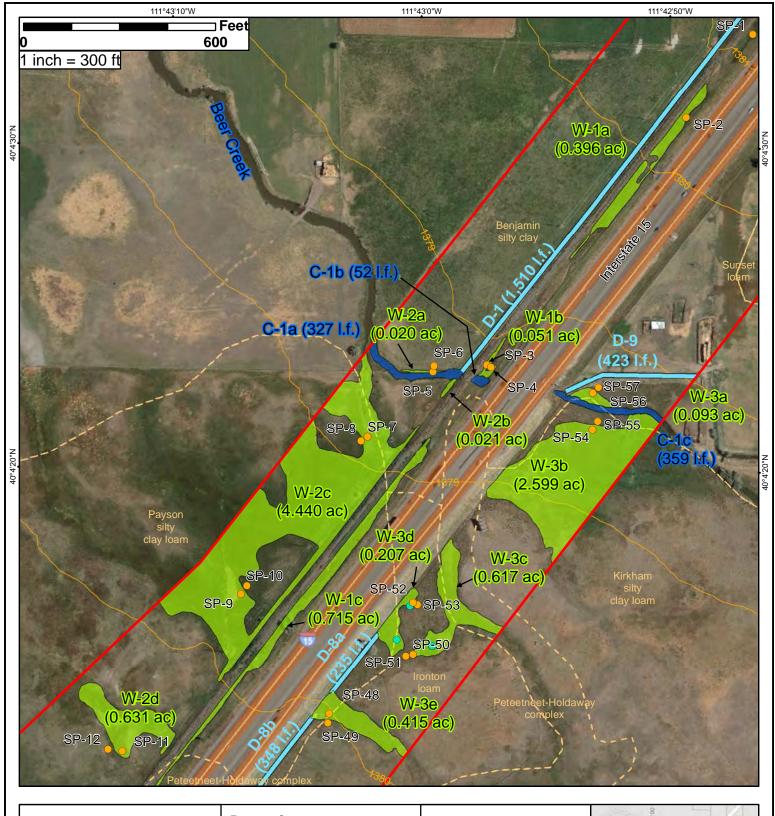
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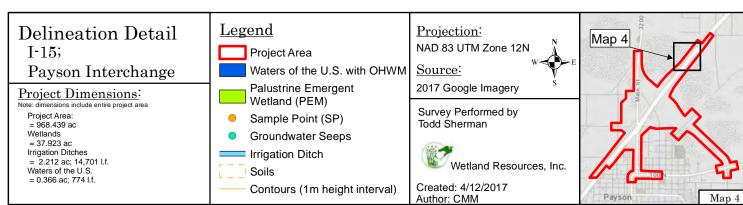


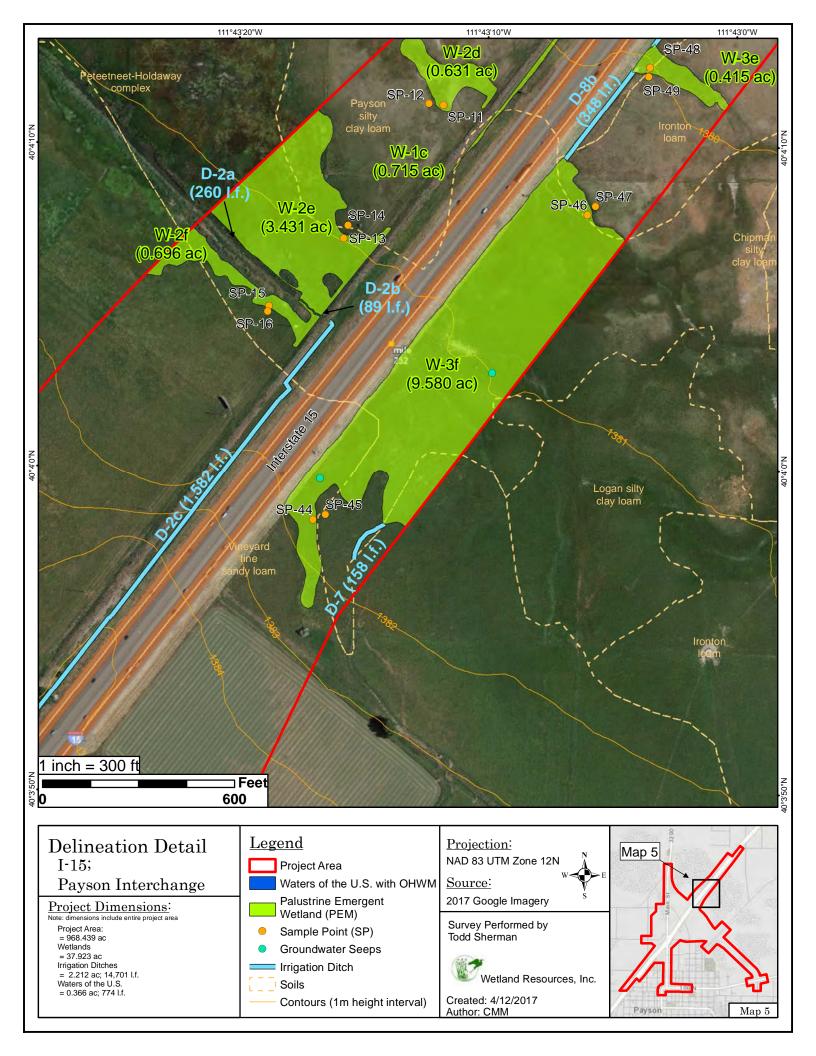


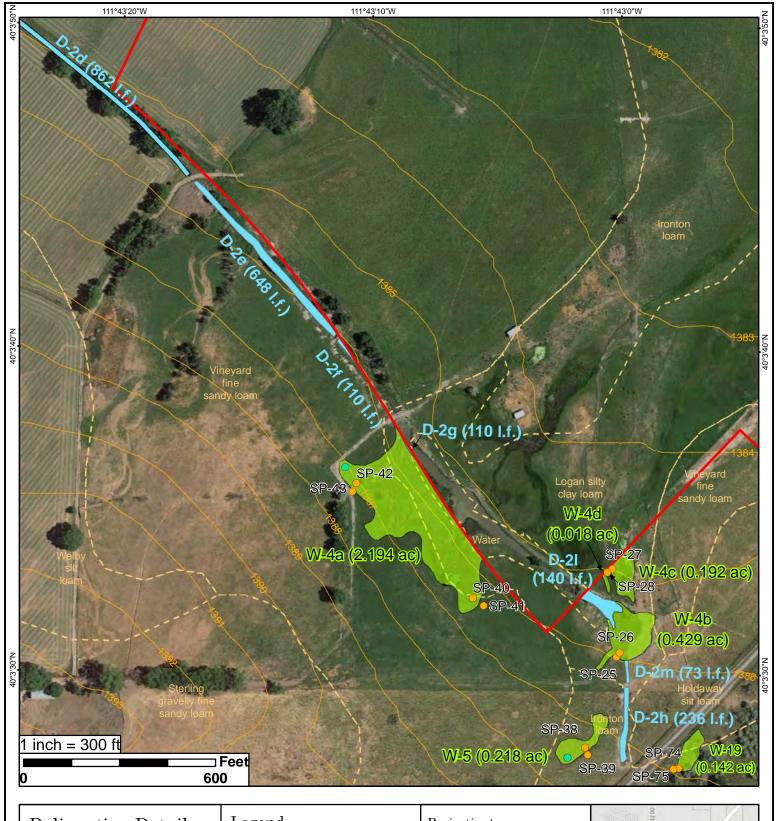












Project Dimensions:

Project Area: = 968.439 ac Wetlands = 37.923 ac

Irrigation Ditches = 2.212 ac; 14,701 l.f. Waters of the U.S. = 0.366 ac; 774 l.f.

Legend

Project Area

Waters of the U.S. with OHWM

Palustrine Emergent Wetland (PEM)

Sample Point (SP)

Groundwater Seeps Irrigation Ditch

Soils

Contours (1m height interval)

Projection: NAD 83 UTM Zone 12N

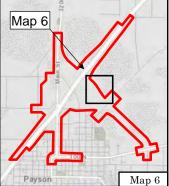
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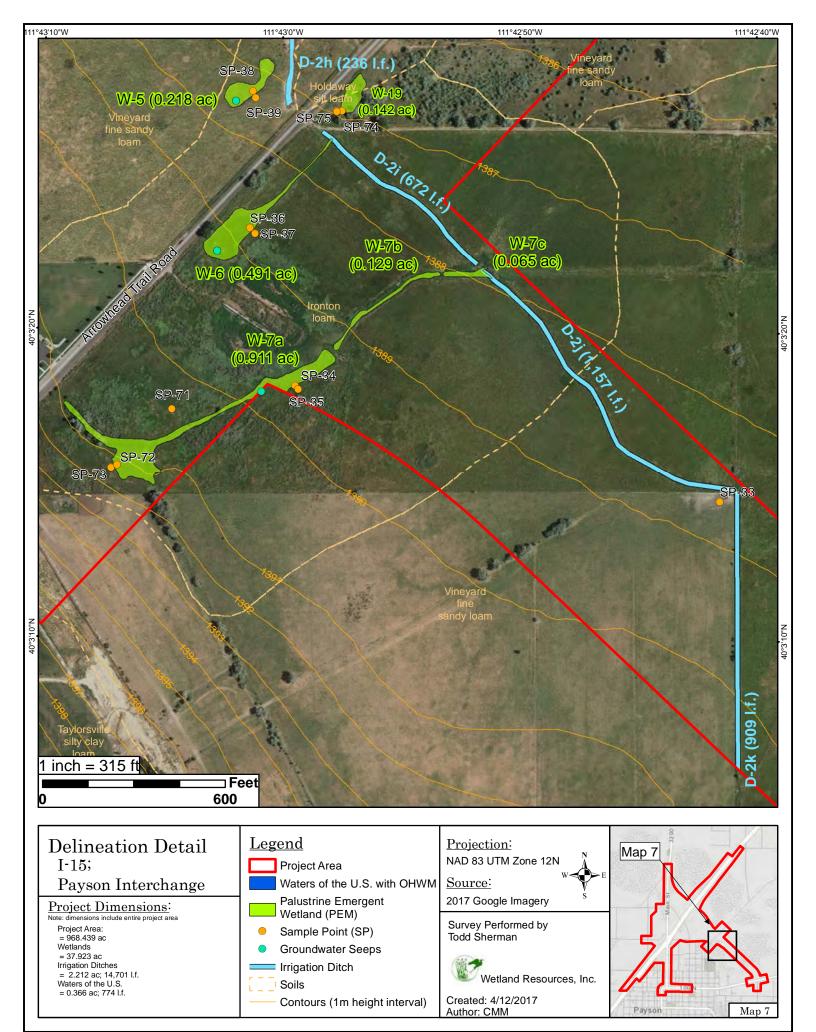
2017 Google Imagery

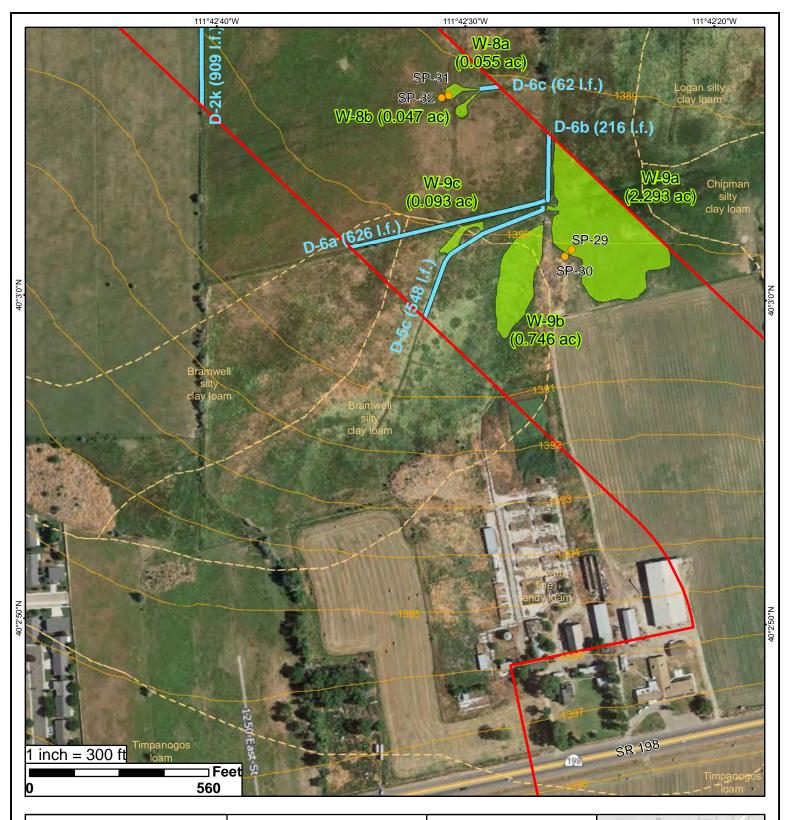
Survey Performed by Todd Sherman



Wetland Resources, Inc.







Project Dimensions:

Project Area: = 968.439 ac Wetlands = 37.923 ac Irrigation Ditches = 2.212 ac; 14,701 l.f. Waters of the U.S.

= 0.366 ac; 774 l.f.

Legend

Project Area

Waters of the U.S. with OHWM

Palustrine Emergent Wetland (PEM)

Sample Point (SP)

Groundwater Seeps Irrigation Ditch

Soils

Contours (1m height interval)

Projection:

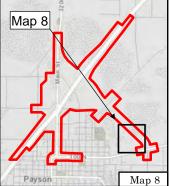
NAD 83 UTM Zone 12N

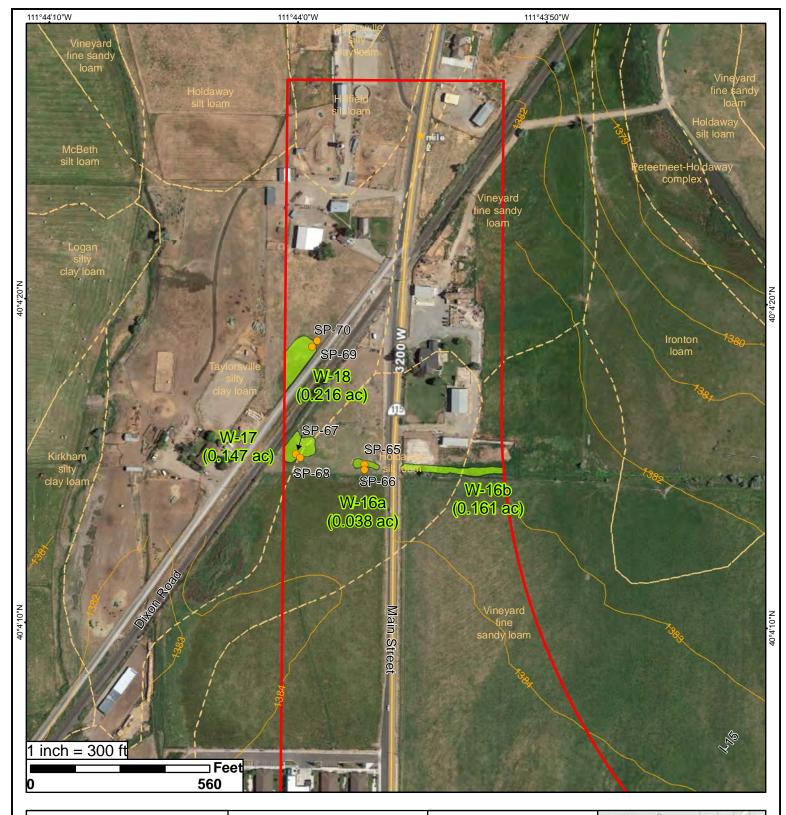
Source:

2017 Google Imagery

Survey Performed by Todd Sherman







Project Dimensions:

Project Area: = 968.439 ac Wetlands = 37.923 ac Irrigation Ditches

= 2.212 ac; 14,701 l.f. Waters of the U.S. = 0.366 ac; 774 l.f.

Legend

Project Area

Waters of the U.S. with OHWM

Palustrine Emergent Wetland (PEM)

Sample Point (SP)

Groundwater Seeps

Irrigation Ditch

Soils

Contours (1m height interval)

Projection:

NAD 83 UTM Zone 12N

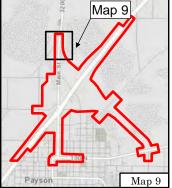
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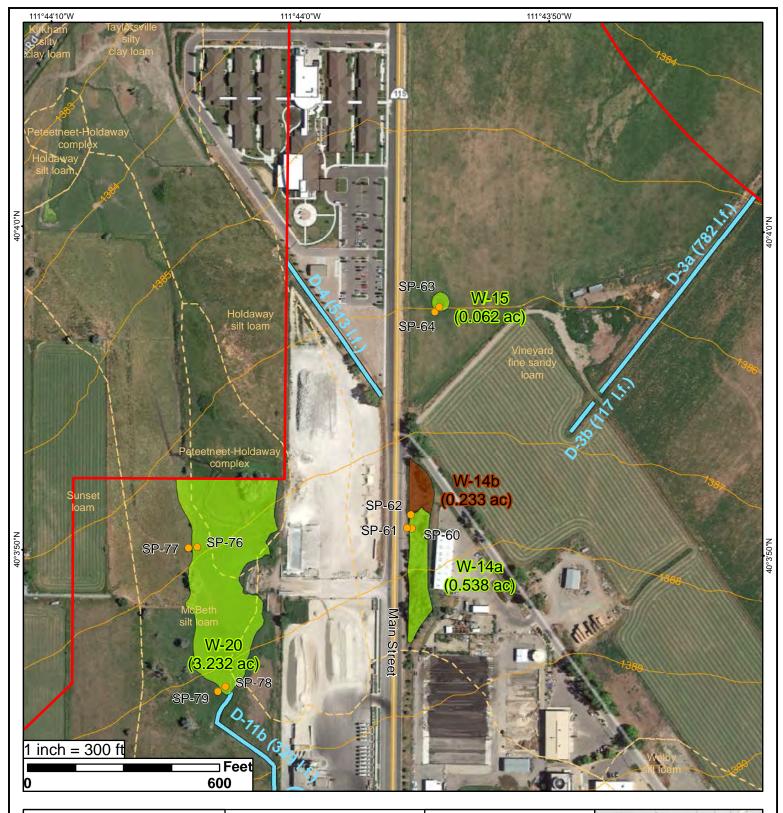
2017 Google Imagery

Survey Performed by Todd Sherman



Wetland Resources, Inc.





Project Dimensions:

Project Area: = 968.439 ac Wetlands

= 37.923 ac Irrigation Ditches = 2.212 ac; 14,701 l.f. Waters of the U.S. = 0.366 ac; 774 l.f.

Legend

Project Area

Waters of the U.S. with OHWM

Irrigation Ditch

Groundwater Seeps Sample Point (SP)

Wetlands

Palustrine Emergent Palustrine Scrub Shrub

Soils

Contours (1m height interval)

Projection:

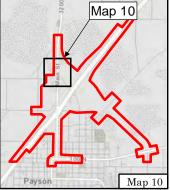
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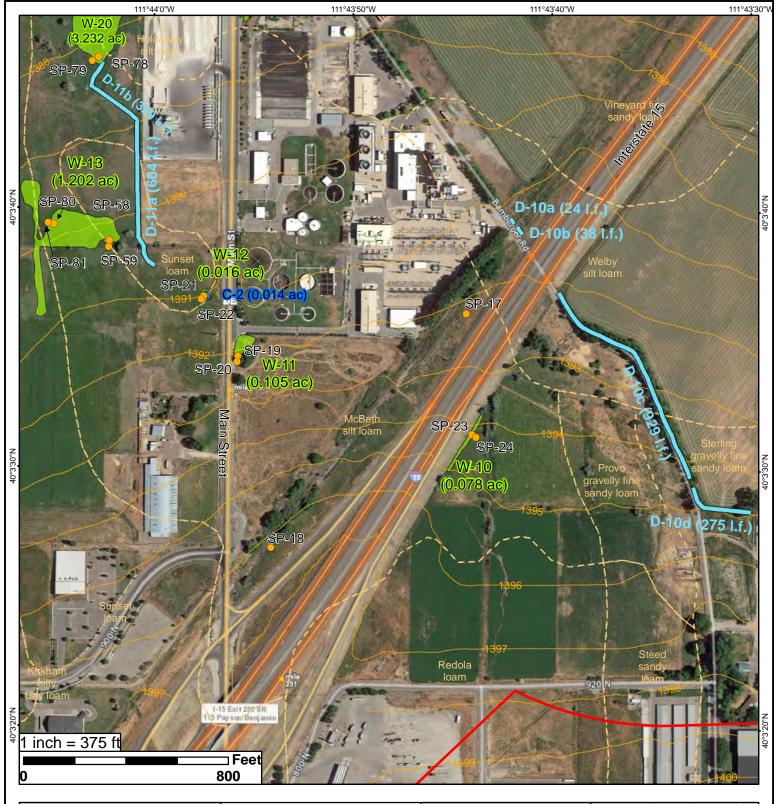
Source:

2017 Google Imagery

Survey Performed by Todd Sherman







Project Dimensions:

Project Area: = 968.439 ac Wetlands = 37.923 ac Irrigation Ditches = 2.212 ac; 14,701 l.f. Waters of the U.S.

= 0.366 ac; 774 l.f.

Legend

Project Area

Waters of the U.S. with OHWM

Palustrine Emergent Wetland (PEM)

Sample Point (SP)

Groundwater Seeps

Irrigation Ditch Soils

Contours (1m height interval)

Projection: NAD 83 UTM Zone 12N

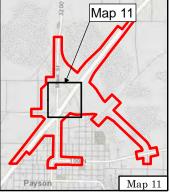
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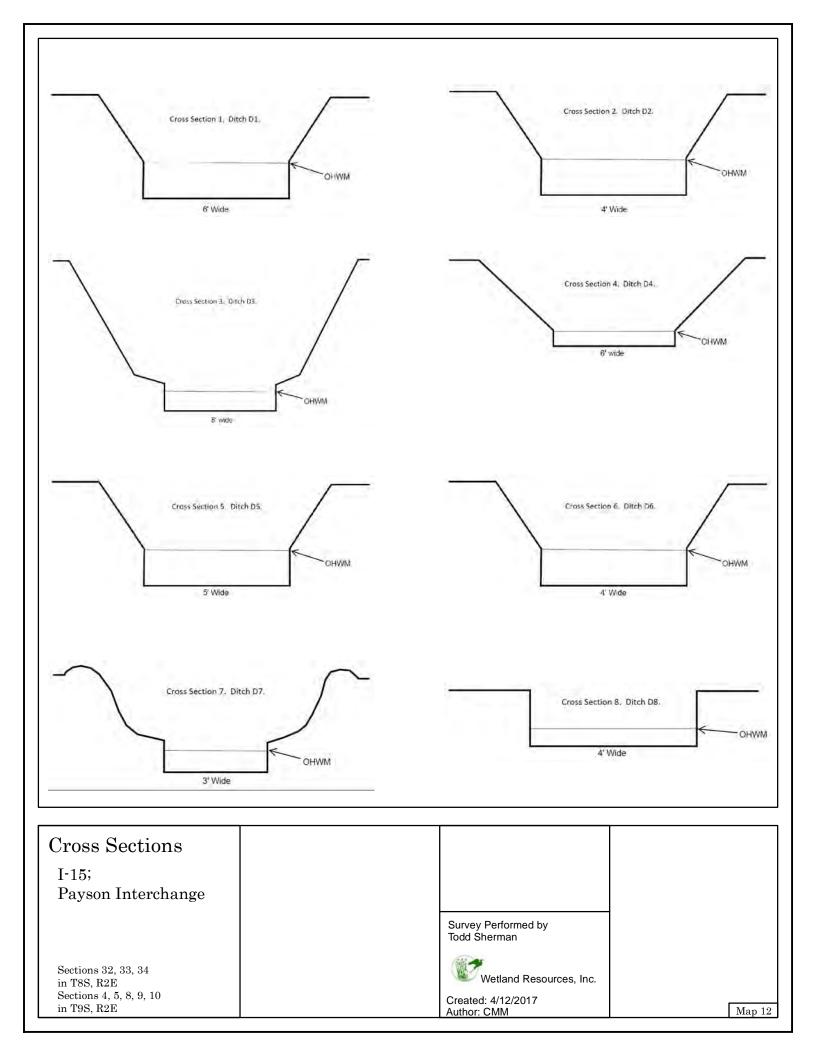
2017 Google Imagery

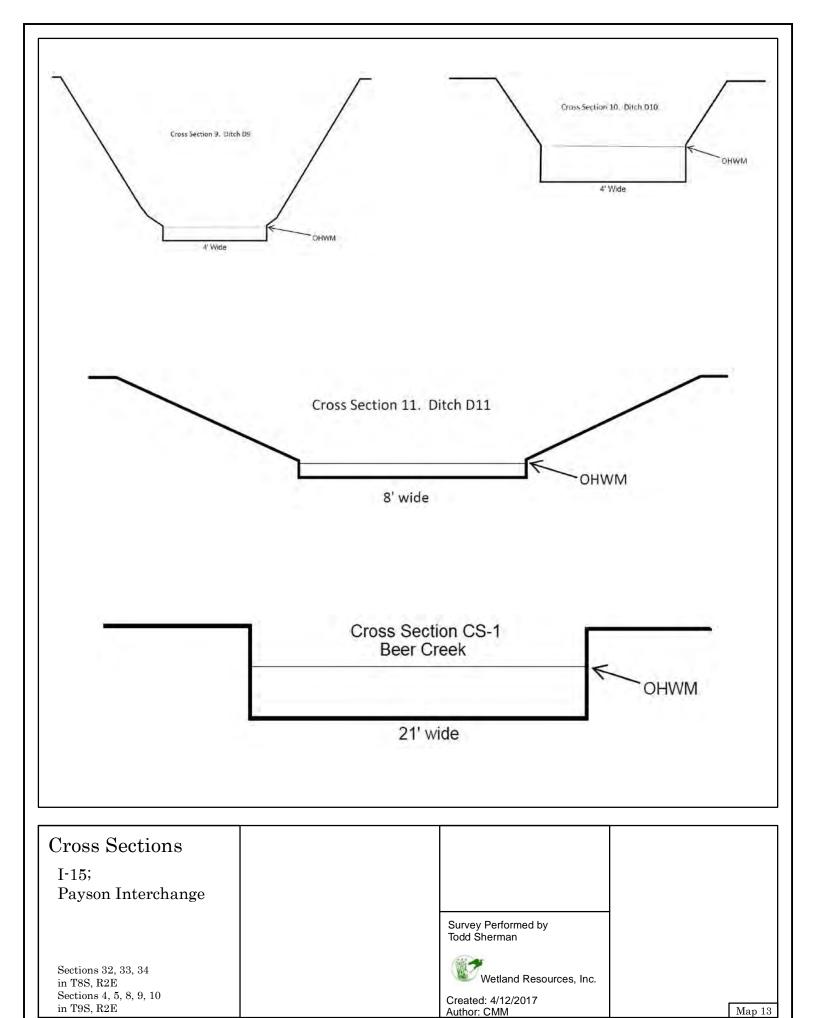
Survey Performed by Todd Sherman



Wetland Resources, Inc.







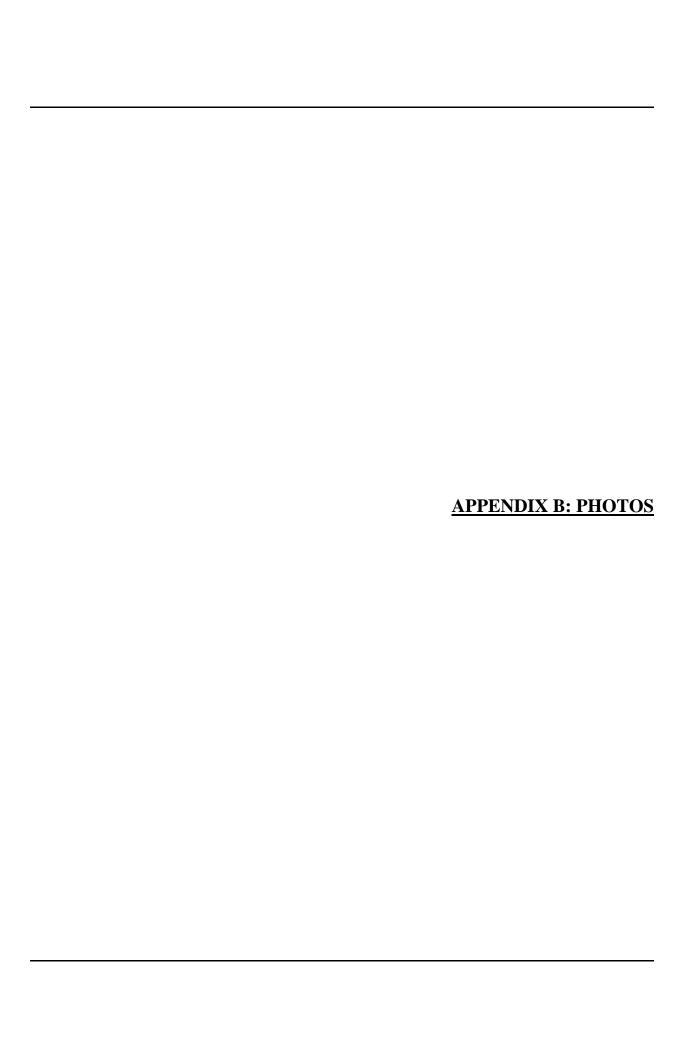




Photo 1. Wetland W1 near SP-2 in the borrow area of I-15.



Photo 2. Wetland W2 near SP-9.



Photo 3. Wetland W2 near SP-15 showing the Nebraska sedge plant community.



Photo 4. Wetland W3 near SP-44 with I-15 in the background.

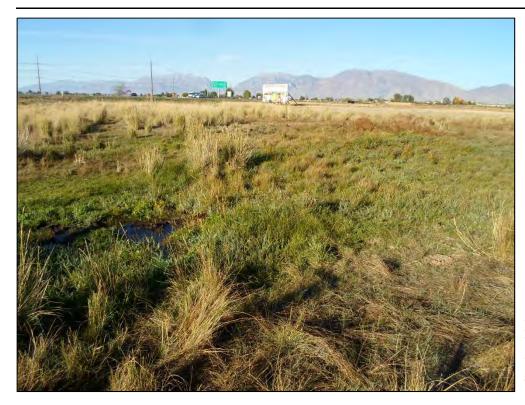


Photo 5. Wetland W3 near the groundwater seep at SP-50.



Photo 6.
Wetland W4 near
SP-40 showing the
sedge plant
community on the
slopes above the
cattail marsh.



Photo 7. Wetland W5 near SP-38 showing the bulrush in the center of the groundwater seep.



Photo 8. Wetland W6 near SP-36 showing the bulrush in the center of the groundwater seep.



Photo 9. Wetland W7 near groundwater seep at SP-26.



Photo 10. Wetland W8 showing the artesian well pipe.

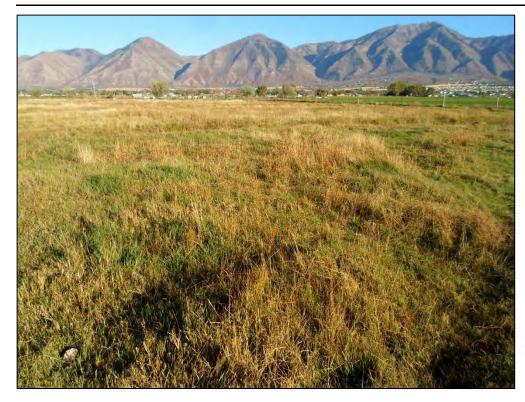


Photo 11. Wetland W9 near SP-29.



Photo 12. Wetland W9 near SP-25.



Photo 13. Wetland W10 in the borrow ditch of I-15.



Photo 14. Wetland W11 on the east side of Main Street.



Photo 15. Wetland W12 around the periphery of the open water pond (C2).



Photo 16. Wetland W13 near SP-58.



Photo 17. Wetland W14 near SP-60



Photo 18. Wetland W15 in field on east side of Main Street.



Photo 19. Wetland W16 created by the two flowing artesian wells.



Photo 20. Wetland W17 created by a flowing artesian well.



Photo 21. Wetland W18 created by a flowing artesian well.



Photo 22. Wetland W19 created by a flowing artesian well.



Photo 23. Wetland W20.



Photo 24. Wetland W20.



Photo 25. Beer Creek (C1) on the east side of I-15.



Photo 26. Ditch D1.



Photo 27. Ditch D2 west of I-15 in the borrow area.



Photo 28. Ditch D2 south of Arrowhead Trail Road.



Photo 29. Ditch D3.



Photo 30. Ditch D4.



Photo 31. Ditch D5.



Photo 32. Ditch D6.



Photo 33. Ditch D7.



Photo 34. Ditch D8 parallel to the east side of I-15.



Photo 35. Ditch D9 north of Beer Creek.



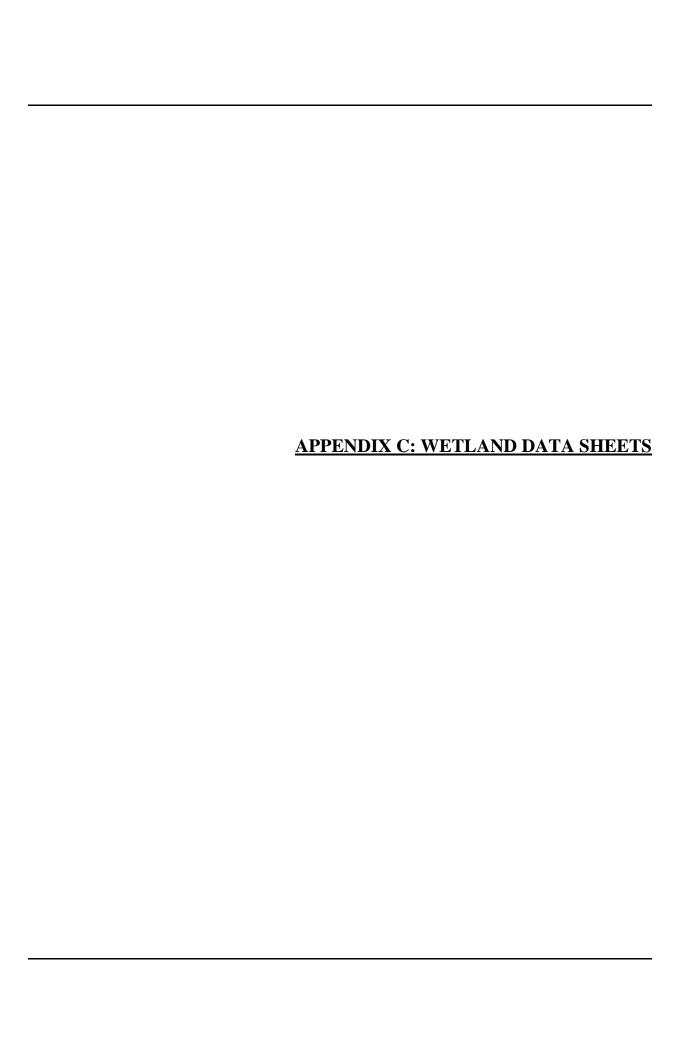
Photo 36. Ditch D10.



Photo 37. Headgate at the south end of ditch D10 that controls the flow.



Photo 38. Ditch D11.



roject/Site: I-15 Payson Main Street Interchange EIS		City/County: Payson/Uta	ıh	Sampling Date: 12-Oct-15
applicant/Owner: Utah Department of Transportation		-	State: UT	Sampling Point: 01
nvestigator(s): Todd Sherman		Section, Township, R	ange: \$ 33 T	8S R 2E
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concave,	convex, none): flat	Slope: 2.0 % /
ubregion (I PP): I DD D	Lat.: 43	9210	Long.: 4436434	Datum: NAD83
oil Map Unit Name: Benjamin silty clay		72.0		ssification: Upland
e climatic/hydrologic conditions on the site typica	for this time of year	Yes ● No (
Are Vegetation, Soil, or Hydrolog			Jormal Circumstances	
				F . 555
re Vegetation		•	eded, explain any ansv cations, transec	
				<u> </u>
Hydric Soil Present? Yes O N	•	Is the Sampled I	_{d2} Yes ○ No ◉	
Wetland Hydrology Present? Yes O N	•	within a Wetland	d? Yes UNO S	
Remarks: Area of mesic vegetation that does not this sample point is on the higher and			orrow ditch is outside o	of the project area at this location,
VEGETATION - Use scientific names	of plants.	Dominant		
	Absolute		Dominance Test wo	rksheet:
	% Cover		Number of Dominant S	•
1 2.		0.0%	That are OBL, FACW, o	or FAC: (A)
3		0.0%	Total Number of Domi	
4.		0.0%	Species Across All Stra	(B)
Sapling/Shrub Stratum (Plot size:	0	= Total Cover	Percent of dominan That Are OBL, FACV	
1.	0	0.0%	Prevalence Index w	orksheet:
2		0.0%	Total % Cover	r of: Multiply by:
3		0.0%	OBL species	0 x 1 = 0
4. 5.		0.0%	FACW species	45 x 2 = 90
5		0.0%	FAC species	<u>45</u> x 3 = <u>135</u>
(Diet eine	0	= Total Cover	FACU species	<u>5</u> x 4 = <u>20</u>
Herb Stratum (Plot size:)			UPL species	<u>5</u> x 5 = <u>25</u>
1. Juncus balticus		✓ 45.0% FACW ✓ 45.0% FAC	Column Totals:	100 (A) <u>270</u> (B)
Distichlis spicata Lactuca serriola		✓ 45.0% FAC FACU	Prevalence Inde	ex = B/A = 2.700
4. Atriplex micrantha		5.0% UPL	Hydrophytic Vegeta	
5.	0	0.0%	✓ Dominance Tes	
6.	0	0.0%	✓ Prevalence Ind	
7.		0.0%	_	Adaptations ¹ (Provide supporting
8.		0.0%		s or on a separate sheet)
9. 10.		0.0%	Problematic Hy	drophytic Vegetation ¹ (Explain)
11.		0.0%		
·	0100	= Total Cover		ric soil and wetland hydrology must
Woodv Vine Stratum (Plot size:				<u> </u>
1		0.0%		
2		0.0%	Hydrophytic Vegetation	
	0	= Total Cover	Present? Yes	s • No O
% Bare Ground in Herb Stratum: 0	% Cover of Bioti			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
								
				-				
Typo: C-Con	contration D_Donlotion		d Matrix CS_Covere	d or Coato	d Sand Crain	s 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					S -LUCAT		
Histosol (ie to all LKK	Sandy Redox (oblematic Hydric Soils: ³
Histic Epip	•		Stripped Matrix				1 cm Muck (A9	
Black Hist					1)		2 cm Muck (A1	
_	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	• •
	Layers (A5) (LRR C)		Loamy Gleyed)		Red Parent Ma	
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)			-7\			
_	Surface (A12)		Depleted Dark Redox depress		- /)			
Sandy Mu	ck Mineral (S1)		•					rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	ogy must be present.
estrictive La	ayer (if present):							
	J. ()							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	t? Yes O No 🗨
Depth (incl Remarks:	nes): of hydric soil.		_				Hydric Soil Present	t? Yes ○ No ●
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	t? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	t? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	t? Yes ○ No ●
Depth (incl Remarks: o indicators ydrology Vetland Hyd	of hydric soil.	one required	; check all that app	oly)				t? Yes ○ No ●
Depth (included per limited pe	of hydric soil. / rology Indicators: cators (minimum of c	one required	; check all that app				Secondary	
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of c	one required;		11)			Secondary	Indicators (2 or more require
Depth (incl Permarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required;	Salt Crust (B	11) (B12)	(B13)		Secondary Water Ma	Indicators (2 or more require arks (B1) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation	of hydric soil. / rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required;	Salt Crust (B	11) (B12) rtebrates (Secondary Sediment Drift Dep	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indi Surface W High Wate Saturation Water Mai	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary Water Ma Sediment Drift Dep Drainage	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (includer land) Permarks: Dindicators Pydrology Petland Hyd Primary India Surface W High Wate Saturation Water Man Sediment	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Water Ma Sediment Drift Dep Drainage Dry Seas	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Wate Saturation Water Mai Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriver	ine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II	(C1) along Living		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (incl Permarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation Water Man Sediment Drift depo Surface Screace Screace	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (incl demarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface So Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) cks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Imagined Leaves (B9)	rine) ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observa	of hydric soil. rology Indicators: cators (minimum of cator (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)		Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) t Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incle Primary Indicators Depth (incle Primary Indicators Depth P	of hydric soil. / rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So	oils (C6)	Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Depth (incl Remarks: o indicators ydrology Vetland Hyd Primary India Surface W High Water Saturation Water Sta Inundation Water-Sta Vetland Observator Water Table Presentation Presentation Presentation Weter Tender Water Table Presentation Presentation Weter-Sta	of hydric soil. / rology Indicators: cators (minimum of cater (A1) cr Table (A2) (A3) cks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Ves (Head of the properties of the prope	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	oils (C6)	Secondary Water Ma Sediment Drift Dep Drainage Dry Seas Crayfish Saturatio Shallow	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Depth (incl Remarks: o indicators Sydrology Vetland Hyd Primary India Surface Water Man Drift depo Surface Sc Inundation Water-Sta Sield Observator Water Table Prosaturation Presincludes capill	of hydric soil. / rology Indicators: cators (minimum of cater (A1) cr Table (A2) (A3) cks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Ves (Head of the properties of the prope	ery (B7) No No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Water Mater M	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Depth (incl Remarks: o indicators Dydrology Vetland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta Sield Observation Water Table Presiduration Presiduration Presiduration Presidures capill Describe Rec	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Water Mater M	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Depth (incl Remarks: D indicators ydrology Vetland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta Vater Table Praturation Presincludes capill Describe Rec	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes (A)	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Water Mater M	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta Veter Table Prestricted Water Vater Table Prestricted Scapill Describe Recommarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes (A)	ery (B7) No No No No qauge, monit	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Water Mater M	Indicators (2 or more require arks (B1) (Riverine) to Deposits (B2) (Riverine) to Sits (B3) Riverine) Patterns (B10) to Water Table (C2) Burrows (C8) to Visible on Aerial Imagery (C9) Aquitard (D3) tral Test (D5)

roject/Site: 1-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 12-Oct-15
pplicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 02
nvestigator(s): Todd Sherman	Section, Township, Range: S 33 T 8S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): concave Slope: 1.0 % /
ubregion (LRR): LRR D	Lat.: 439147 Long.: 4436355 Datum: NAD83
bil Map Unit Name: Benjamin silty clay	NWI classification: PEM
e climatic/hydrologic conditions on the site typical for this	
re Vegetation	ignificantly disturbed? Are "Normal Circumstances" present? Yes No
	,
re Vegetation U , Soil U , or Hydrology U Summary of Findings - Attach site map sh	owing sampling point locations, transects, important features, e
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes • No •	Is the Sampled Area Within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland?
	row ditch between L15 and the reilroad tracks
Palustrine emergent wetland located in the b	row ditch between I-15 and the railroad tracks.
VEGETATION - Use scientific names of plan	
	Species? Absolute Rel.Strat. Indicator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Cover Status Number of Dominant Species
1,	That are OBL, FACW, or FAC: 1 (A)
2. 3.	Total Number of Dominant
34.	Species Across All Strata: 1 (B)
T.	O Louis Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0 0.0% Prevalence Index worksheet:
2.	0 0.0% Total % Cover of: Multiply by:
3.	0 0.0% OBL species 0 x 1 = 0
4.	0 0.0% FACW species 90 x 2 = 180
5.	$0 \boxed{0.0\%} \text{FAC species} \boxed{10} \text{x 3} = \boxed{30}$
	0 = Total Cover FACU species 0 x 4 = 0
Herb Stratum (Plot size:)	
1. Juncus balticus	90 90.0% FACW Column Totals: 100 (A) 210 (B)
2. Distichlis spicata	10 10.0% FAC
3 4.	0 0.0% Prevalence Index = B/A = 2.100
5.	Hydrophytic Vegetation Indicators: 0 0.0% Hydrophytic Vegetation Indicators:
6.	0 0.0% Dominance Test is > 50% 0 0.0% Prevalence Index is ≤ 3.0 1
7.	n now
8.	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	0 0.0% Problematic Hydrophytic Vegetation (Explain)
10.	0 0.0% (Explain)
11.	0 0.0% 100 - Total Cover 1 Indicators of hydric soil and wetland hydrology mus
	= Total Cover be present, unless disturbed or problematic.
Woodv Vine Stratum (Plot size:)	
1	0 0.0%
2	Hydrophytic Vegetation
	0 = Total Cover Present? Yes • No •
% Bare Ground in Herb Stratum: η %	over of Biotic Crust n

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (Describe	to the depth ne	eded to document	the indi	cator or co	nfirm the	absence of indicators.)
Depth	Matri			dox Featu			_
(inches)	Color (moist		Color (moist)	%	_Tvpe 1	Loc ²	Texture Remarks
0-7	10YR 4/2	2 100%					Loam
7-20	10YR 5/2	98%	5YR 4/6	2%	C	M	Clay Loam
1 Type: C=Cor	ncentration. D=Depl	etion. RM=Reduce	ed Matrix, CS=Covere	ed or Coate	ed Sand Grai	ns ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil I	Indicators: (Appl	icable to all LRR	s, unless otherwis	e noted.))		Indicators for Problematic Hydric Soils: ³
Histosol ((A1)		Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)
Histic Epi	pedon (A2)		Stripped Matri	x (S6)			2 cm Muck (A10) (LRR B)
Black Hist			Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)
_ ` `	n Sulfide (A4)		Loamy Gleyed	Matrix (F2	2)		Red Parent Material (TF2)
_	Layers (A5) (LRR C)		✓ Depleted Matr	ix (F3)			Other (Explain in Remarks)
_	ck (A9) (LRR D)		Redox Dark Su	urface (F6))		_ ,
	Below Dark Surface	(A11)	Depleted Dark	Surface (F7)		
	k Surface (A12)		Redox depress	sions (F8)			³ Indicators of hydrophytic vegetation and
l — ,	uck Mineral (S1)		Vernal Pools (F9)			wetland hydrology must be present.
•	eyed Matrix (S4)						
	ayer (if present):						
Type:							Hydric Soil Present? Yes ● No ○
Depth (inc	ches):						Tryunc 3011 Present: Tes 🥹 NO 🔾
Remarks:							
Soils meet the	e criteria for depl	eted matrix.					
Hydrolog	у						
Wetland Hyd	drology Indicators	s:					
Primary Indi	icators (minimum	of one required	; check all that app	oly)			Secondary Indicators (2 or more required)
Surface W	Vater (A1)		Salt Crust (E	311)			Water Marks (B1) (Riverine)
High Wat	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits (B2) (Riverine)
✓ Saturation	n (A3)		Aquatic Inve	ertebrates	(B13)		Drift Deposits (B3) Riverine)
☐ Water Ma	arks (B1) (Nonriverin	e)	Hydrogen Si	ulfide Odo	r (C1)		Drainage Patterns (B10)
Sediment	Deposits (B2) (Non	riverine)	Oxidized Rh	izospheres	along Living	g Roots (C3	3) Dry Season Water Table (C2)
☐ Drift depo	osits (B3) (Nonerive	rine)	Presence of	Reduced I	Iron (C4)		Crayfish Burrows (C8)
Surface S	ioil Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Inundatio	on Visible on Aerial I	magery (B7)	☐ Thin Muck S	urface (C7	')		Shallow Aquitard (D3)
☐ Water-Sta	ained Leaves (B9)		Other (Expla	ain in Rem	arks)		✓ FAC-neutral Test (D5)
Field Observ	vations:						
Surface Water		es O No 💿	Depth (inc	hes):			
Water Table P	Present? Y	es O No 💿	Donth (inc	hos).		_	
Saturation Pre					<i>a</i> -	Wetla	and Hydrology Present? Yes ● No ○
(includes capil	. Y	es No	Depth (inc	hes):	10	_	
Describe Rec	corded Data (strea	am gauge, moni	tor well, aerial pho	otos, prev	vious inspe	ctions), if	available:
Remarks:							
Soils are satu	urated in the uppe	er profile.					

	Lat.: 439° ne of year? nificantly di urally probl	Yes No Sturbed? Are "Nematic? (If neematic? Is the Sampled A	Convex, none): concave Long.: 4436355 NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No ormal circumstances present? Yes ormal circumstances present? Yes ormal circumstances present? Yes ormal circumstances presents pres	
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Benjamin silty clay The climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology , sign Are Vegetation , Soil , or Hydrology nate Summary of Findings - Attach site map shov Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No	Lat.: 439° ne of year? nificantly di urally probl	Yes No No Sturbed? Are "Nematic? (If neematic? Is the Sampled A	Convex, none): concave Long.: 4436355 NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No ormal circumstances present? Yes ormal circumstances present?	
Subregion (LRR): LRR D Soil Map Unit Name: Benjamin silty clay	Lat.: 439 ne of year? nificantly di urally probl	Yes No Sturbed? Are "Nematic? (If neematic? Is the Sampled A	Long.: 4436355 Datum: NAD83 NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No Oeded, explain any answers in Remarks.) ations, transects, important features, explain any answers in Remarks.	
Subregion (LRR): LRR D Soil Map Unit Name: Benjamin silty clay	ne of year? nificantly di urally probl	Yes No No Sturbed? Are "No ematic? (If nee npling point loc	NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) ations, transects, important features, explain any ex	∍tc.
Foil Map Unit Name: Benjamin silty clay The climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology sign. Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map show. Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Western No Western No Yes No No Western N	ne of year? nificantly di urally probl	Yes No No Sturbed? Are "No ematic? (If nee npling point loc	NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) ations, transects, important features, explain any ex	∍tc.
re climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology sign. Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map show. Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Yes No Yes No	nificantly di urally probl	sturbed? Are "N ematic? (If nee npling point loc Is the Sampled A	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○ eded, explain any answers in Remarks.) ations, transects, important features, e	etc.
Are Vegetation , Soil , or Hydrology sign are Vegetation , Soil , or Hydrology nate Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No No	nificantly di urally probl	sturbed? Are "N ematic? (If nee npling point loc Is the Sampled A	ormal Circumstances" present? Yes No eded, explain any answers in Remarks.) ations, transects, important features, e	∍tc.
Are Vegetation , Soil , or Hydrology nate Summary of Findings - Attach site map shov Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Yes No	urally probl	ematic? (If nee	eded, explain any answers in Remarks.) ations, transects, important features, e	etc.
Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	ving san	npling point loc	ations, transects, important features, e	etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No No No		Is the Sampled A	·	
Wetland Hydrology Present? Yes No No		•	area	
			Yes No	
Remarks: Palustrine emergent wetland located in the borro		within a Wetland	res © NO C	
raidstrine emergent wettand located in the borro	w ditch hat	ween I-15 and the rail	road tracks, near Roor Crook	
	w diteribet	ween 1-13 and the ran	Toda tracks, fiear beer greek.	
VEGETATION - Use scientific names of plants.		Dominant		
·	Absolute	Species? ————————————————————————————————————	Dominance Test worksheet:	
		Cover Status	Number of Dominant Species	
1	_0	0.0%	That are OBL, FACW, or FAC:1 (A)	
2	_ 0	0.0%	Total Number of Dominant	
3	_0	0.0%	Species Across All Strata:1(B)	
4	0	0.0%	Develop of development Consider	
Sapling/Shrub Stratum (Plot size:)		Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B	3)
1	_ 0	0.0%	Prevalence Index worksheet:	
2	0	0.0%	Total % Cover of: Multiply by:	
3	0	0.0%	0BL species x 1 =0	
4. 5.	0	0.0%	FACW species <u>100</u> x 2 = <u>200</u>	
5	0	0.0%	FAC species $0 \times 3 = 0$	
(District of		Total Cover	FACU species $0 \times 4 = 0$	
Herb Stratum (Plot size:)	Г	7	UPL species $0 \times 5 = 0$	
1. Juncus balticus		100.0% FACW	Column Totals:100 (A)200 (B	3)
2 3.	0 [0.0%	Prevalence Index = B/A = 2.000	
<u>4.</u>	0 [0.0%		
5.	0	0.0%	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%	
6.	0	0.0%	✓ Prevalence Index is ≤3.0 ¹	
7.	0	0.0%	Morphological Adaptations ¹ (Provide supporting	_
8.	0	0.0%	data in Remarks or on a separate sheet)	,
9.	0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)	
10. 11.	0	0.0%		
	0	0.0%	¹ Indicators of hydric soil and wetland hydrology mus	ıct.
	100=	Total Cover	be present, unless disturbed or problematic.	Si
	, –	7		
1			Hadaaabada	
2			Hydrophytic Vegetation	
9/ Para Ground in Horb Stratum.		Total Cover	Present? Yes No	
% Bare Ground in Herb Stratum: 0 % Cove	er of Biotic	crust_0	<u> </u>	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Des	cribe to	the depth n	eeded to do	ocument	the indi	cator or co	onfirm the	absence of indicators.)	
Depth		Matrix				lox Featu				
(inches)	Color (i		<u>%</u>	Color (n	noist)	<u>%</u>	Tvpe 1	Loc ²	Texture Loam	Remarks
0-7	10YR	4/2	100%		4.17					
7-20	10YR	5/2	98%	5YR	4/6	2%	C	M	Clay Loam	
-	-							-		
-	-					-		-	-	
1 Type: C=Con	centration D	-Depletio		od Matrix C	S-Covere	d or Coate	ad Sand Gra	ine 21 oca	ation: PL=Pore Lining. M=Mat	riv
Hydric Soil I								iiiis Loca		
Histosol ((Арріїсак	ne to an ER		ly Redox (,		Indicators for Problem	
	pedon (A2)			_	ped Matri				1 cm Muck (A9) (LRI	·
Black Hist	ic (A3)			''	•	Mineral (F	1)		Reduced Vertic (F18	· ·
Hydrogen	Sulfide (A4)			_		Matrix (F2			Red Parent Material	•
	Layers (A5) (I				eted Matr		•		Other (Explain in Re	• •
	k (A9) (LRR D			Redo	x Dark Su	urface (F6))		Other (Explain in ite	marksy
	Below Dark S	•	1)	Deple	eted Dark	Surface (F7)			
	k Surface (A1	•		Redo	x depress	sions (F8)			3	
I — ·	ck Mineral (S			☐ Verna	al Pools (F9)			Indicators of hydrophy wetland hydrology m	ust be present.
	yed Matrix (S									<u> </u>
Restrictive La	ayer (if pres	ent):								
Type:									Hydric Soil Present?	Yes ● No ○
Depth (incl	nes):									100 1
Remarks:										
Soils meet the	e criteria for	depleted	l matrix.							
Hydrology	y									
Wetland Hyd	<u> </u>	rators.								
Primary Indi			nne require	d. check all	that and	alv)			Secondary Indica	ators (2 or more required)
Surface W		mam or v	one require		It Crust (B				Water Marks (I	
	er Table (A2)				tic Crust	•				osits (B2) (Riverine)
✓ Saturation						rtebrates	(B13)		Drift Deposits	, , ,
☐ Water Mai	rks (B1) (Non	riverine)		☐ Hy	drogen Su	ulfide Odo	r (C1)		Drainage Patte	erns (B10)
Sediment	Deposits (B2)) (Nonrive	ine)	Ох	idized Rhi	izospheres	along Livin	g Roots (C3	3) Dry Season Wa	ater Table (C2)
Drift depo	sits (B3) (No	neriverine)		Pre	esence of	Reduced I	ron (C4)		Crayfish Burrov	ws (C8)
Surface So	oil Cracks (B6)		Red	cent Iron	Reduction	in Plowed	Soils (C6)	Saturation Visi	ble on Aerial Imagery (C9)
Inundatio	n Visible on A	erial Imag	ery (B7)			urface (C7			Shallow Aquita	ırd (D3)
Water-Sta	ined Leaves ((B9)		U Oth	her (Expla	in in Rem	arks)		✓ FAC-neutral Te	est (D5)
Field Observa	ations:			`						
Surface Water	Present?	Yes			epth (inc	hes):		_		
Water Table Pi	resent?	Yes	O No 🖲) 0	epth (inc	hes):				v
Saturation Pre-		Yes	● No C) D	epth (inc	hes):	10	- Wetla	and Hydrology Present?	Yes No
Describe Rec		(stream	gauge, mor	itor well, a	erial pho	itos, prev	ious inspe	ctions), if	available:	
									-	
Remarks:										
Soils are satu	urated in the	upper p	rofile.							

roject/Site: I-15 Payson Main Street I	nterchange EIS	City/County: F	ayson/Utah	Sampling Date: _12	!-Oct-15
pplicant/Owner: Utah Department of	Transportation		State: UT	Sampling Point:	04
nvestigator(s): Todd Sherman		Section, Tov	vnship, Range: S 33	T 8S R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom	Local relief (concave, convex, none): fla	t Slope:	2.0 % / 1
ubregion (LRR): LRR D		 Lat.: 438961	Long.: 4436117	Datu	um: NAD83
pil Map Unit Name: Benjamin silty o	lav			classification: Upland	-
e climatic/hydrologic conditions on		his time of year? Yes	<u> </u>	ain in Remarks.)	
re Vegetation , Soil	, or Hydrology	significantly disturbed?	Are "Normal Circumstan		No O
re Vegetation, Soil	, or Hydrology	naturally problematic?	(If needed, explain any	•	
Summary of Findings - At				•	eatures, etc.
Hydrophytic Vegetation Present?	Yes O No •				
Hydric Soil Present?	Yes ○ No ●	Is the S	Sampled Area		
Wetland Hydrology Present?	Yes ○ No ●	within	a Wetland? Yes 🔾 No		
Remarks: Upland area adjacent					
Opiana area adjacent	10 38-3.				
VEGETATION - Use scien	tific names of p	lants. Dominant			
	·	Species? - Absolute Rel.Strat.	Indicator Dominance Test	worksheet:	
Tree Stratum (Plot size:)		Status Number of Domina		
1		0	That are OBL, FAC	•	1 (A)
2		0	Total Number of D)ominant	
3			Species Across All		3 (B)
4		0	Percent of domi	nant Species	
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, F.		3%(A/B)
1.		0	Prevalence Inde	v workshoot.	
2.		0 0.0%	Total % C		
3.		0 0.0%	OBL species	0 x 1 =	_ 0
4.		0 0.0%	FACW species	40 x 2 =	80
5.		0 0.0%	FAC species	0 x 3 =	0
		0 = Total Cover	· ·	40 x 4 =	160
Herb Stratum (Plot size:)		UPL species	0 x 5 =	0
1. Juncus balticus			FACW Column Totals		240 (B)
2. Cirsium arvense			FACU		
3. Lactuca serriola				$Index = B/A = \underline{3.0}$	000_
45.		0 0.0%		etation Indicators:	
6.		0 0.0%		Test is > 50%	
7.		0 0.0%	_	Index is ≤3.0 ¹	
8.		0 0.0%		cal Adaptations ¹ (Provid narks or on a separate sh	
9.		0 0.0%		: Hydrophytic Vegetation	
10.		00.0%		rijuroprijito regetation	(Explain)
11.		00.0%			
		80 = Total Cover		nydric soil and wetland hy ess disturbed or problema	
Woodv Vine Stratum (Plot size:)				
1		0			
a		0	Hydrophytic		
2			Vegetation	\(\)	
2		= Total Cover % Cover of Biotic Crust 0		Yes ○ No ●	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	'							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Pay	yson/utan	Sampling Date	: 12-Oct-15
pplicant/Owner: Utah Department of Transportation	-	State: UT	Sampling Po	oint: 05
nvestigator(s): Todd Sherman	Section, Town	ship, Range: S 33	T 8S R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	ncave, convex, none): CC	oncave Slope	e: <u>1.0</u> % / 0
ubregion (LRR): LRR D	Lat.: 438906	Long.: 443611;	3	Datum: NAD83
oil Map Unit Name: Benjamin silty clay		NWI	classification: PEM	
e climatic/hydrologic conditions on the site typical for this	s time of year? Yes	0 0	lain in Remarks.)	
re Vegetation . , Soil . , or Hydrology .	significantly disturbed?	Are "Normal Circumstar	nces" present? Yes	s • No O
re Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any	answers in Remarks	1
Summary of Findings - Attach site map sh			·	
Hydrophytic Vegetation Present? Yes • No		Tit locations, trains	scots, importan	- Toutures, etc.
Hydric Soil Present? Yes No	Is the Sar	mpled Area		
Wetland Hydrology Present? Yes No	within a \	Wetland? Yes 💿 No	\circ	
, ,,				
Remarks: Palustrine emergent wetland fringe adjacent	to Beer Creek.			
VEGETATION - Use scientific names of plan				
	——————————————————————————————————————	dicator Dominance Tes	t worksheet:	
Tree Stratum (Plot size:)		Number of Domir		
1, 2.		That are OBL, FA	CW, or FAC:	2 (A)
3.	0	Total Number of		
4.	0 0.0%	Species Across Al	l Strata:	2 (B)
-	0 = Total Cover	Percent of dom		
Sapling/Shrub Stratum (Plot size:)		That Are OBL, F	FACW, or FAC:	100.0% (A/B)
1	0 0.0%	Prevalence Inde	ex worksheet:	
2.	0 0.0%	Total % C	Cover of: Multiply	<u>/ by:</u>
3	0	OBL species	40 x 1 =	40
4. 5.	0	FACW species	60 x 2 =	120
	0	FAC species	x 3 =	0
Herb Stratum (Plot size:)	0 = Total Cover	FACU species	x 4 =	
1. Juncus balticus	50 ✓ 50.0% FA	UPL species	x 5 =	0
2. Carex rostrata	40 10 000 00		s: <u>100</u> (A)	<u>160</u> (B)
Muhlenbergia asperifolia			Index = B/A =	1.600
4.	0 0.0%	Hydrophytic Vec	getation Indicators:	
5	0 0.0%		e Test is > 50%	
6.	0	Prevalence	Index is ≤3.0 ¹	
7. 8.	0		ical Adaptations ¹ (Pr	
9.	0		marks or on a separate	
10.	0	Problemati	ic Hydrophytic Vegeta	tion ¹ (Explain)
11.	0 0.0%			
	100 = Total Cover		hydric soil and wetlar	
Woody Vine Stratum (Plot size:)		be present, unl	ess disturbed or probl	ematic.
1	0			
2.	0 0.0%	Hydrophytic		
	0 = Total Cover	Vegetation Present?	Yes No	
% Bare Ground in Herb Stratum: η %	Cover of Biotic Crust 0			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth need	ded to document the indi	cator or confir	m the absen	ce of indicators.)	
Depth Matrix	Redox Featu				
(inches) Color (moist) %	Color (moist) %	Tvpe 1 L	.0C ²	Texture	Remarks
0-6 10YR 4/2 100%			Loar	n 	
6-20 10YR 5/2 98%	5YR 4/6 2%	C	M Clay	Loam	
				_	
1 Type: C=Concentration. D=Depletion. RM=Reduced	Matrix, CS=Covered or Coate	ed Sand Grains	² Location: F	PL=Pore Lining. M=Mate	rix
Hydric Soil Indicators: (Applicable to all LRRs,				ndicators for Problen	_
Histosol (A1)	Sandy Redox (S5)	•		1 cm Muck (A9) (LRF	•
Histic Epipedon (A2)	Stripped Matrix (S6)			2 cm Muck (A10) (LF	, and the second
Black Histic (A3)	Loamy Mucky Mineral (F	-1)		Reduced Vertic (F18)	· ·
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F2			Red Parent Material	·
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)	,		Other (Explain in Re	. ,
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6))			iliai KS)
Depleted Below Dark Surface (A11)	Depleted Dark Surface (•			
Thick Dark Surface (A12)	Redox depressions (F8)	,	2		
Sandy Muck Mineral (S1)	Vernal Pools (F9)		3	Indicators of hydrophy wetland hydrology mu	tic vegetation and
Sandy Gleyed Matrix (S4)	. ,			wetiand flydrology file	ust be present.
Restrictive Layer (if present):					
Type:					
Depth (inches):	_		Нус	Iric Soil Present?	Yes ● No O
Remarks:					
Soils meet the criteria for depleted matrix.					
·					
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required;	check all that apply)			Secondary Indica	ators (2 or more required)
Surface Water (A1)	Salt Crust (B11)			Water Marks (E	
High Water Table (A2)	Biotic Crust (B12)				osits (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates	(B13)		Drift Deposits	
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odo	or (C1)		Drainage Patte	erns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres	s along Living Ro	ots (C3)	Dry Season Wa	· ·
☐ Drift deposits (B3) (Noneriverine)	Presence of Reduced I	Iron (C4)		Crayfish Burrov	· ·
Surface Soil Cracks (B6)	Recent Iron Reduction	n in Plowed Soils	(C6)	Saturation Visil	ble on Aerial Imagery (C9)
☐ Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C7	7)		Shallow Aquita	
☐ Water-Stained Leaves (B9)	Other (Explain in Rem	arks)		✓ FAC-neutral Te	
Field Observations:					
Surface Water Present? Yes No •	Depth (inches):				
Water Table Present? Yes No •					
	Depth (inches):		Wetland Hy	/drology Present?	Yes ● No ○
(includes capillary fringe) Yes No	Depth (inches):	10			
Describe Recorded Data (stream gauge, monito	r well, aerial photos, prev	vious inspectio	ns), if availa	ble:	
Remarks:					
Soils are saturated in the upper profile.					
constructed in the apper prome.					

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/	Utah Sampling Date: 12-Oct-15
pplicant/Owner: Utah Department of Transportation	-	State: UT Sampling Point: 06
nvestigator(s): Todd Sherman	Section, Township	o, Range: \$ 33
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concav	ve, convex, none): flat Slope:2.0 % /
ubregion (LRR): LRR D	Lat.: 438906	Long.: 4436114 Datum: NAD83
oil Map Unit Name: Benjamin silty clay		NWI classification: Upland
e climatic/hydrologic conditions on the site typical for t	this time of year? Yes No	0 (If no, explain in Remarks.)
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗀	significantly disturbed? Are	e "Normal Circumstances" present? Yes No
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌	naturally problematic? (If	needed, explain any answers in Remarks.)
Summary of Findings - Attach site map	showing sampling point I	ocations, transects, important features, etc
Hydrophytic Vegetation Present? Yes O No 💿	Is the Sample	ad Area
Hydric Soil Present? Yes No No	•	vaa O Na 📵
Wetland Hydrology Present? Yes ○ No ●	within a Wetl	land? Tes C NO C
Remarks: Upland area adjacent to SP-5.		
opidina area adjacent to or o.		
VEGETATION - Use scientific names of p	lants. Dominant Species?	
— (District)	Absolute Rel.Strat. Indica	
Tree Stratum (Plot size:)	<u>% Cover Cover Status</u> 0 □ 0.0%	Number of Dominant Species
1		That are OBL, FACW, or FAC:(A)
3.	0 0.0%	Total Number of Dominant
4.	0 0.0%	Species Across All Strata: 2 (B)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 50.0% (A/B)
1	0 0.0%	Prevalence Index worksheet:
2	0	Total % Cover of: Multiply by:
3	0	OBL species x 1 =
4. 5.	0	FACW species x 2 =
J	0	FAC species50 x 3 =150
Uset Charter (Plot size:	0 = Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:) 1. Agropyron elongatum	50 🗹 50.0% UPL	UPL species $\frac{50}{}$ x 5 = $\frac{250}{}$
0.5	50 7 50 000 500	Column Totals: <u>100</u> (A) <u>400</u> (B)
2. Distichlis spicata 3.		Prevalence Index = B/A =4.000_
4.	0.00/	Hydrophytic Vegetation Indicators:
5	0	Dominance Test is > 50%
6.	0	Prevalence Index is ≤3.0 ¹
7. 8.	0	Morphological Adaptations ¹ (Provide supporting
9.	0	data in Remarks or on a separate sheet)
10.	0 0.0% 0 0.0%	 Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0 0.0%	_
•	100 = Total Cover	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		be present, unless disturbed or problematic.
1.	0	
2.	0 0.0%	— Hydrophytic
-	0 = Total Cover	Vegetation Present? Yes No No
% Bare Ground in Herb Stratum: 0	% Cover of Biotic Crust ()	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	'							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 12-Oct-15
pplicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 07
nvestigator(s): Todd Sherman	Section, Township, Range: S 33 T 8S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): concave Slope: 1.0 % /
ubregion (LRR): LRR D	Lat.: 438843 Long.: 4436051 Datum: NAD83
oil Map Unit Name: Payson silty clay loam	NWI classification: PEM
e climatic/hydrologic conditions on the site typical for the	
re Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present? Yes No
re Vegetation U , Soil U , or Hydrology U	naturally problematic? (If needed, explain any answers in Remarks.) nowing sampling point locations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area Within a Wetland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes WO
Remarks: Palustrine emergent wetland that is part of	large watland complex
raiustille emergent wettand that is part of	rarge wettand complex.
VEGETATION - Use scientific names of pl	nts. Dominant —Species?
(6)	Absolute Rel.Strat. Indicator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Cover Status Number of Dominant Species
1 2.	
3	0 0.0% Total Number of Dominant Species Across All Strate: 2 (B)
4.	Species Across All Strata: 3 (B)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0 0.0% Prevalence Index worksheet:
2.	
3.	0 0.0% OBL species $40 \times 1 = 40$
4.	0 0.0% FACW species 60 x 2 = 120
5.	
	0 = Total Cover FACU species 0 x 4 = 0
Herb Stratum (Plot size:)	UPL species $0 \times 5 = 0$
1Juncus balticus	50 V 50.0% FACW Column Totals: 100 (A) 160 (B)
2. Carex rostrata	
3. Carex nebrascensis	20
Hordeum brachyantherum S.	
6.	
7.	0 00%
8.	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	
10.	0 0.0%
11.	0 0.0%
	100 = Total Cover land indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woodv Vine Stratum (Plot size:)	
1	
2	0
	0 = Total Cover Present? Yes ● No ○
% Bare Ground in Herb Stratum: 0	Cover of Biotic Crust n

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth ne	eded to document th	e indicator or co	nfirm the	absence of indicators.)
Depth Matrix		Features		-
(inches) Color (moist) %	Color (moist)	<u>% Tvpe</u> ¹	Loc ²	Texture Remarks
0-8 10YR 2/1 100%				Loam
8-20 10YR 5/1 100%				Clay Loam
				-
				·
1 Type: C=Concentration. D=Depletion. RM=Reduce			ns ² Loca	tion: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRR				Indicators for Problematic Hydric Soils: ³
Histosol (A1)	Sandy Redox (S5)			1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix (S			2 cm Muck (A10) (LRR B)
Hydrogen Sulfide (A4)	Loamy Mucky Min			Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed Ma			Red Parent Material (TF2)
1 cm Muck (A9) (LRR D)	✓ Depleted Matrix (. ,		Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Surfa			
Thick Dark Surface (A12)	Depleted Dark Su			
Sandy Muck Mineral (S1)	Redox depression Vernal Pools (F9)			³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	verrial Pools (F9)			wetland hydrology must be present.
Restrictive Layer (if present):				
Type:				
Depth (inches):				Hydric Soil Present? Yes ● No ○
Remarks:				
Soils meet the criteria for depleted matrix.				
·				
Hydrology				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required	; check all that apply))		Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B11))		Water Marks (B1) (Riverine)
High Water Table (A2)	☐ Biotic Crust (B1	2)		Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Invertel	brates (B13)		Drift Deposits (B3) Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfic	de Odor (C1)		Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)		spheres along Living	Roots (C3	Dry Season Water Table (C2)
Drift deposits (B3) (Noneriverine)	Presence of Rec			Crayfish Burrows (C8)
Surface Soil Cracks (B6)		duction in Plowed S	oils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surfa			Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)	U Other (Explain i	in Remarks)		FAC-neutral Test (D5)
Field Observations:				
Surface Water Present? Yes No No	Depth (inches	s):		
Water Table Present? Yes No •	Depth (inches	s):		and Hydrology Present? Yes ● No ○
Saturation Present? Yes • No •	Depth (inches	s):11	Wetla	and Hydrology Present? Yes ● No ○
(includes capillary fringe) Describe Recorded Data (stream gauge, moni	or well, aerial photos	s, previous insper	tions) if	available:
	o. Won, dendi priotos	o, providus irispe		<u></u>
Remarks:				
Soils are saturated in the upper profile.				

Project/Site: I-15 Payson Main Street	Interchange EIS	City	/County: Payson/Uta	h	Sampli	ing Date: 12-C	oct-15
Applicant/Owner: Utah Department o	of Transportation			State: UT	Sam	npling Point:_	80
Investigator(s): Todd Sherman		s	ection, Township, R	ange: S 33	T_8S	R 2E	
Landform (hillslope, terrace, etc.)	: Valley bottom	Lo	ocal relief (concave, o	convex, none): flat		Slope:	2.0 % / 1.
Subregion (LRR): LRR D	-	Lat.: 43883	37	Long.: 4436047		Datun	n: NAD83
Soil Map Unit Name: Payson silty cla	av loam			NWI c	classification	: Upland	
re climatic/hydrologic conditions or		is time of year?	Yes No	(If no, expla	in in Remar	ks.)	
Are Vegetation, Soil	, or Hydrology	significantly dist	turbed? Are "N	ormal Circumstanc	es" present	? Yes ⊙	No \bigcirc
Are Vegetation, Soil	, or Hydrology	naturally proble		eded, explain any a	•		
Summary of Findings - A			•				itures, etc.
Hydrophytic Vegetation Present?	Yes O No •		In the Commind A				
Hydric Soil Present?	Yes O No 💿		Is the Sampled A	Vac O Na			
Wetland Hydrology Present?	Yes 🔾 No 💿		within a Wetland	i? res ∪ No	•		
Remarks: Upland area adjacent	t to SP-7						
opiana area adjacem	1 10 31 -7.						
VEGETATION - Use scie	ntific names of pla		Dominant				
			Species? ————— Rel.Strat. Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)		Cover Status	Number of Domina	nt Species		
1			0.0%	That are OBL, FAC\	•	0	(A)
2			0.0%	Total Number of Do	ominant		
3. 4.			0.0%	Species Across All S		1_	(B)
4		0	0.0%	Percent of domin	ant Species		
Sapling/Shrub Stratum (Plot size	e:)	= .	Total Cover	That Are OBL, FA			6 (A/B)
1.		0	0.0%	Prevalence Index	workshoot:		
2.		0	0.0%	Total % Co		Multiply by:	
3.		0	0.0%	OBL species	0		0
4.		0	0.0%	FACW species	10	-	20
5.		0	0.0%	FAC species	10		30
		0 =	Total Cover	FACU species	0	x 4 =	0
Herb Stratum (Plot size:)		,	UPL species	80	x 5 = 4	.00
1. Agropyron elongatum				Column Totals:	100	(A) 4	50 (B)
			10.0% FAC				
3. Juncus balticus 4.			10.0% FACW 0.0%	Prevalence I			<u>J</u>
5.		0	0.0%	Hydrophytic Vege			
6.			0.0%	Dominance Prevalence I			
7.		0	0.0%				
8.		0	0.0%	data in Rem	ai Adaptatio	ons ¹ (Provide separate shee	supporting t)
9.		0	0.0%	Problematic	Hvdrophytic	c Vegetation 1	(Explain)
10. 11.		0	0.0%		, ,	J	
——————————————————————————————————————			0.0%	¹ Indicators of h	vdric coil an	nd watland hyd	rology must
		100 =	Total Cover	be present, unles			
Woody Vine Stratum (Plot size:			1				
1			0.0%				
2			0.0%	Hydrophytic Vegetation	.,		
			Total Cover	Present?	Yes ON	lo 💿	
% Bare Ground in Herb Stratun	n: <u>0</u> %	6 Cover of Biotic C	rust_0				
Remarks:							
The area does not meet the veget	ation criteria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) □ tom Muck (A9) (LRR D) □ bepleted Below Dark Surface (A11) □ bepleted Below Dark Surface (A11) □ bepleted Below Dark Surface (A12) □ sandy Muck Mineral (S1) □ sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: □ bepth (inches): □ bepth (inches): □ lo indicators of hydric soil. Sydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) □ Surface Water (A1) □ High Water Table (A2) □ Biotic Crust (B12) □ Saturation (A3) □ Aquatic Invertebrates (B13) □ Hydrogen Sulfide Odor (C1) □ Sediment Deposits (B2) (Nonriverine) □ Defit deposits (B3) (Noneriverine) □ Diff (acksord) □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Weter Table Present? Yes No	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains	Texture Remarks
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Derift deposits (B3) (Noneriverine) Difft deposits (B3) (Noneriverine) Frace Water Present? Wetland Hydroges Wetland Hydroges Presented From Fresent? Present (A1) Presented From Fresented (C2) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Present? Presented Caper (F0) Depth (inches): #### Wetland Hydroges	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Depleted Dark Surface (F6) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): marks: indicators of hydric soil. drology stland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visiber on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Hydrogen Sulfide Odor (C1) Water Present? Yes No Depth (inches): Wetland Hydrology: Wetl	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Depleted Dark Surface (F6) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): marks: indicators of hydric soil. drology stland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visiber on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Hydrogen Sulfide Odor (C1) Water Present? Yes No Depth (inches): Wetland Hydrology: Wetl	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Derift deposits (B3) (Noneriverine) Difft deposits (B3) (Noneriverine) Frace Water Present? Wetland Hydroges Wetland Hydroges Presented From Fresent? Present (A1) Presented From Fresented (C2) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Present? Presented Caper (F0) Depth (inches): #### Wetland Hydroges	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	- Para Lining, M-Matrix
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Depleted Batrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Vernal Pools (F9) Sandy Muck Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Pestrictive Layer (if present): Type:	
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Black Histic (A3)	1 cm Muck (A9) (LRR C)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C)	2 cm Muck (A10) (LRR B)
Stratified Layers (A5) (LRR C)	Reduced Vertic (F18)
1 cm Muck (A9) (LRR D)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Depth (inches): Dindicators of hydric soil. etain Hydrology fetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Depth (proposits (B3) (Noneriverine) Dirit deposits (B3) (Noneriverine) Dirit deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) fetel Observations: urface Water Present? Ves No Depth (inches): Surtace Water Present? Ves No Depth (inches): Surtace Water Present? Ves Union Persent finches): Surface Water Present? Ves Union Wetland Hydrology Bopple Mater Surface (F7) Wetland Hydrology Wetla	Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Indicators of hydric soil. ydrology etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Dirift deposits (B2) (Nonriverine) Dirift deposits (B3) (Noneriverine) Dirift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Wes No Depth (inches): Wetland Hydrose)	
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Identify Indicators of hydric soil. pydrology fetland Hydrology Indicators: frimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) fetl Observations: furface Water Present? further Yes No Depth (inches): Further Yes No Depth (inches): Wetland Hydroges Wetland Hydroges Wetland Hydroges Depth (inches): Wetland Hydroges Wetland Hydroges Wetland Hydroges Surface Soil Cracks Depth (inches): Further Yes Further Yes No Depth (inches): Further Yes Fu	
sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Depth (inches)	ndicators of hydrophytic vegetation and
Type:	wetland hydrology must be present.
Type:	
Depth (inches):	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Wetland Hydrogen! Depth (inches): Wetland Hydrogen! Wetland Hydrogen! Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen! Wetland	ic Soil Present? Yes O No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Yes No Depth (inches): Wetland Hydrology Wetland Hydrology Wetland Hydrology Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrology Wetland Hydro	
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High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Water Table Present? Wetland Hystogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetland Hyster Table Present? Wetland Hyster Posent (inches):	Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) □ Drift deposits (B3) (Noneriverine) □ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Plowed Soils (C6) □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ Depth (inches):	Drift Deposits (B3) Riverine)
Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Observations: Urface Water Present? Yes No Depth (inches): Depth (inches): Depth (inches): Wetland Hyeresters (P4) Depth (inches): Depth (inches): Depth (inches): Wetland Hyeresters (P4) Depth (inches):	Drainage Patterns (B10)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aeri	Dry Season Water Table (C2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ield Observations: urface Water Present? Yes ☐ No ⑥ Depth (inches): //ater Table Present? Yes ☐ No ⑥ Depth (inches): aturation Present? Yes ☐ No ⑥ Depth (inches): Wetland Hydrogeneric Present?	Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): Jater Table Present? Ves No Depth (inches): Wetland Hyer	Saturation Visible on Aerial Imagery (C9)
ield Observations: urface Water Present? Ves No ● Depth (inches): Vater Table Present? Ves No ● Depth (inches): Wetland Hydration Present?	Shallow Aguitard (D3)
urface Water Present? Yes No Depth (inches): Jater Table Present? Yes No Depth (inches): Wetland Hydration Present?	FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches): Jettration Present? Ves No Depth (inches): Wetland Hydrogeners (inches):	· '
Ves No ● Depth (inches): Wetland Hydratration Present?	
aturation Present? Ves No Penth (inches):	
attriation Plesent? Vas () No (•) Depth (inches):	
	rology Present? Yes No •
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if availab	Irology Present? Yes ○ No •
emarks:	
lo indicators of wetland hydrology.	

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Pa	ayson/Utah Sampling Date: 12-Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT Sampling Point: 09
nvestigator(s): Todd Sherman	Section, Town	nship, Range: S 33 T 8S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	oncave, convex, none): concave Slope:1.0_ % /
ubregion (LRR): LRR D	Lat.: 438843	Long.: 4436051 Datum: NAD83
bil Map Unit Name: Payson silty clay loam	100010	NWI classification: PEM
e climatic/hydrologic conditions on the site typical fo	or this time of year? Ves	No (If no, explain in Remarks.)
re Vegetation		Are "Normal Circumstances" present? Yes • No
		,
re Vegetation	naturally problematic?	(If needed, explain any answers in Remarks.)
		int locations, transects, important features, etc
	_ Is the Sa	ampled Area
	- within a	Wetland? Yes No
, ,,	<u> </u>	
Remarks: Palustrine emergent wetland that is par	t of a large wetland complex.	
/EGETATION - Use scientific names of	f plants. Dominant	
- Use scientific flames of	Species? —	
Tree Stratum (Plot size:)	Absolute Rel.Strat. In % Cover Cover S	tatus
1		Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2.	0 0000	
3.	0 0000	Total Number of Dominant Species Across All Strata: 3 (B)
4.	0 0.0%	Species Across All Strata.
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0	Prevalence Index worksheet:
2.	0 0.0%	Total % Cover of: Multiply by:
3.	0 0.0%	OBL species 40 x 1 = 40
4.	0 0.0%	FACW species 60 x 2 = 120
5.	0 0.0%	FAC species 0 x 3 = 0
	0 = Total Cover	FACU species x 4 =0
Herb Stratum (Plot size:)		UPL species $0 \times 5 = 0$
1Juncus balticus		Column Totals: 100 (A) 160 (B)
2. Eleocharis palustris		OBL
3. Carex nebrascensis		DBL Prevalence Index = B/A = 1.600
Hordeum brachyantherum Agrostis stolonifera		Hydrophytic Vegetation Indicators:
6.	<u>5</u> <u> 5.0% F</u> 0	Dominance Test is > 50%
7.	0 0.0%	Prevalence Index is ≤3.0 ¹
8.	0 0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	0 0.0%	Problematic Hydrophytic Vegetation 1 (Explain)
	0 0.0%	Problematic nyurophytic vegetation (Explain)
	0	
	0 0.0% 100 = Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
11		 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Moody Vine Stratum (Plot size:) 1		
11	100 = Total Cover	be present, unless disturbed or problematic. Hydrophytic
		be present, unless disturbed or problematic.

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describ	e to the depth nee	ded to document	the indic	ator or co	nfirm the	absence of indicators.)	
DepthMat			ox Featu				
(inches) Color (moi		Color (moist)	<u>%</u>	Tvpe 1	Loc ²	TextureRemarks	
0-8 10YR 2	/1 100%					Loam	
8-20 10YR 5	/1 100%					Clay Loam	
1 Type: C=Concentration. D=De	pletion. RM=Reduced	Matrix, CS=Covered	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Ap						Indicators for Problematic Hydric Soils: ³	
Histosol (A1)		Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)		Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3)		Loamy Mucky N		1)		Reduced Vertic (F18)	
Hydrogen Sulfide (A4)		Loamy Gleyed				Red Parent Material (TF2)	
Stratified Layers (A5) (LRR	C)	✓ Depleted Matri:		,		Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D)		Redox Dark Su	rface (F6)			Other (Explain in Remarks)	
Depleted Below Dark Surface	ce (A11)	Depleted Dark	Surface (F	7)			
Thick Dark Surface (A12)		Redox depressi				3	
Sandy Muck Mineral (S1)		Vernal Pools (F	9)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present.	
Sandy Gleyed Matrix (S4)						wettand frydrology ffidat be present.	
Restrictive Layer (if present):						
Туре:						Hydric Soil Present? Yes ● No ○	
Depth (inches):						Hydric Soil Present? Yes ● No ○	
Remarks:							
Soils meet the criteria for dep	oleted matrix.						
Hydrology							
Wetland Hydrology Indicato	rs:						
Primary Indicators (minimus		check all that ann	lv)			Secondary Indicators (2 or more required	1)
Surface Water (A1)	ir or one required,	Salt Crust (B				Water Marks (B1) (Riverine)	"
✓ High Water Table (A2)		Biotic Crust (B12)			Sediment Deposits (B2) (Riverine)	
Saturation (A3)		Aquatic Inver		(B13)		Drift Deposits (B3) Riverine)	
Water Marks (B1) (Nonriver	ine)	Hydrogen Su	lfide Odor	(C1)		Drainage Patterns (B10)	
Sediment Deposits (B2) (No	onriverine)	Oxidized Rhiz	ospheres	along Living	Roots (C3		
Drift deposits (B3) (Noneriv	erine)	Presence of F	Reduced I	ron (C4)		Crayfish Burrows (C8)	
Surface Soil Cracks (B6)		Recent Iron F	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial	Imagery (B7)	☐ Thin Muck Su	ırface (C7))		Shallow Aquitard (D3)	
Water-Stained Leaves (B9)		Other (Explai	n in Rema	arks)		FAC-neutral Test (D5)	
Field Observations:							
	Yes O No 💿	Depth (inch	nes):				
	Yes No	•		14	-		
		Depth (inch	ies):	16	Wetla	and Hydrology Present? Yes No	
(includes capillary fringe)	Yes No	Depth (inch	nes):	7	-		
Describe Recorded Data (str	eam gauge, monito	or well, aerial pho	tos, prev	ious inspec	ctions), if	available:	
Remarks:							
Soils are saturated in the up	per profile.						
·							

Project/Site: I-15 Payson Main Street Ir	nterchange EIS	Ci	ty/County: Payson/Uta	ıh	Sampl	ing Date: <u>12-0</u>	Oct-15
Applicant/Owner: Utah Department of	Transportation			State: UT	San	npling Point:_	10
Investigator(s): Todd Sherman			Section, Township, R	ange: S 33	T_8S	R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom	1	Local relief (concave,	convex, none): flat	t	Slope:	2.0 % / 1.
Subregion (LRR): LRR D		Lat.: 438	723	Long.: 4435901		Datur	n: NAD83
Soil Map Unit Name: Payson silty clay	/ loam			NWI	classification	 າ: Upland	
re climatic/hydrologic conditions on		for this time of year?	Yes No		ain in Remar		
Are Vegetation . , Soil .	, or Hydrology	significantly d	isturbed? Are "N	Jormal Circumstand	ces" present	? Yes ⊙	No \bigcirc
Are Vegetation , Soil	, or Hydrology	naturally prob		eded, explain any a	•		
Summary of Findings - At			•				itures, etc.
Hydrophytic Vegetation Present?	Yes O No	, •	La Ma a Camanda d	A			
Hydric Soil Present?	Yes O No	•	Is the Sampled A	Vaa O Na			
Wetland Hydrology Present?	Yes O No	•	within a Wetland	d? res ∪ No	•		
Remarks: Upland area adjacent t	n SP-0						
opiana area adjacem t	.U 31 -7.						
VEGETATION - Use scien	tific names	of plants.	Dominant				
		Absolute	-Species? ————————————————————————————————————	Dominance Test	worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Domina	ant Species		
1		- T		That are OBL, FAC	W, or FAC:	0	(A)
2. 3.			0.0%	Total Number of D	ominant		
4.			0.0%	Species Across All	Strata:	1	(B)
				Percent of domin	nant Species		
Sapling/Shrub Stratum (Plot size:			= Total Cover	That Are OBL, F			6 (A/B)
1.		0	0.0%	Prevalence Index	x worksheet	<u> </u>	
2.		0 [0.0%	Total % Co		Multiply by:	
3.		0	0.0%	OBL species	0		0
4		0	0.0%	FACW species	15	x 2 =	30
5.			0.0%	FAC species	0	x 3 =	0
		0 =	= Total Cover	FACU species	0	x 4 =	0
Herb Stratum (Plot size:)			UPL species	85	x 5 =	25
1. Agropyron elongatum			✓ 85.0% UPL	Column Totals	: 100	(A) 4	55 (B)
			15.0% FACW	Prevalence I			
3 4.		0	0.0%				<u> </u>
5.			0.0%	Hydrophytic Veg	etation Indic Test is > 50		
6.		0	0.0%	Prevalence			
7.		0	0.0%			ons ¹ (Provide	
8.		0	0.0%	data in Rem	cai Adaptation	separate shee	supporting et)
9.			0.0%	Problemation	Hydrophyti	c Vegetation 1	(Explain)
10. 11.		0		_			•
				¹ Indicators of h	wdric soil ar	nd wetland by	Irology must
		100 =	= Total Cover	be present, unle			
Woodv Vine Stratum (Plot size:			¬				
1		ſ					
2				Hydrophytic Vegetation		. 🙃	
		-	= Total Cover	Present?	Yes O	lo 💿	
9/ Para Cround in Harb Stratum	_	% Cover of Biotic	Cruct o	T. Control of the Con			
% Bare Ground in Herb Stratum:	0	76 COVEL OF BIOLIC	Grust 0				
Remarks:	0	76 COVEL OF BIOLIC	<u>Crust_0</u>				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Histosol (A1) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) □ tom Muck (A9) (LRR D) □ bepleted Below Dark Surface (A11) □ bepleted Below Dark Surface (A11) □ bepleted Below Dark Surface (A12) □ sandy Muck Mineral (S1) □ sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: □ bepth (inches): □ bepth (inches): □ lo indicators of hydric soil. Sydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) □ Surface Water (A1) □ High Water Table (A2) □ Biotic Crust (B12) □ Saturation (A3) □ Aquatic Invertebrates (B13) □ Hydrogen Sulfide Odor (C1) □ Sediment Deposits (B2) (Nonriverine) □ Defit deposits (B3) (Noneriverine) □ Diff (acksord) □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) Weter Table Present? Yes No	
Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains	Texture Remarks
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Derift deposits (B3) (Noneriverine) Difft deposits (B3) (Noneriverine) Frace Water Present? Wetland Hydroges Wetland Hydroges Presented From Fresent? Present (A1) Presented From Fresented (C2) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Present? Presented Caper (F0) Depth (inches): #### Wetland Hydroges	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Depleted Dark Surface (F6) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): marks: indicators of hydric soil. drology stland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visiber on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Hydrogen Sulfide Odor (C1) Water Present? Yes No Depth (inches): Wetland Hydrology: Wetl	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Stripped Matrix (S6) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Thick Dark Surface (A12) Sandy Muck (A9) (LRR D) Depleted Below Dark Surface (A11) Depleted Depleted Dark Surface (F6) Depleted Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (if present): Type: Depth (inches): marks: indicators of hydric soil. drology stland Hydrology Indicators: imary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visiber on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Hydrogen Sulfide Odor (C1) Water Present? Yes No Depth (inches): Wetland Hydrology: Wetl	
rdric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1) Histosol (A2) Histosol (A2) Histosol (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Matrix (F2) Depleted Below Dark Surface (A11) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Strictive Layer (If present): Type: Depth (inches): ### Hydrogen Sulfide (A2) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Derift deposits (B3) (Noneriverine) Difft deposits (B3) (Noneriverine) Frace Water Present? Wetland Hydroges Wetland Hydroges Presented From Fresent? Present (A1) Presented From Fresented (C2) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Present? Presented Caper (F0) Depth (inches): #### Wetland Hydroges	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	
ydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	- Para Lining, M-Matrix
Histosol (A1) Sandy Redox (S5) Histic Epipedon (A2) Stripped Matrix (S6) Black Histic (A3) Loamy Mucky Mineral (F1) Loamy Gleyed Matrix (F2) Stratified Layers (A5) (LRR C) Depleted Matrix (F3) Loamy Mucky Mineral (F1) Depleted Batrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Loamy Gleyed Matrix (F3) Thick Dark Surface (A12) Redox Dark Surface (F6) Depleted Below Dark Surface (A12) Redox depressions (F8) Sandy Muck Mineral (S1) Vernal Pools (F9) Sandy Muck Mineral (S1) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Vernal Pools (F9) Sandy Gleyed Matrix (S4) Pestrictive Layer (if present): Type:	
Histic Epipedon (A2) Black Histic (A3) Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C) Depleted Below Dark Surface (A11) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (F3) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Setrictive Layer (if present): Type: Depth (inches): Petland Hydrology Tetland Hydrology Indicators: Trimary Indicators (minimum of one required; check all that apply) Hydrology Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Defit deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Drift depo	licators for Problematic Hydric Soils: ³
Black Histic (A3)	1 cm Muck (A9) (LRR C)
Hydrogen Sulfide (A4) Stratified Layers (A5) (LRR C)	2 cm Muck (A10) (LRR B)
Stratified Layers (A5) (LRR C)	Reduced Vertic (F18)
1 cm Muck (A9) (LRR D)	Red Parent Material (TF2)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Depth (inches): Dindicators of hydric soil. etain Hydrology fetland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Depth (proposits (B3) (Noneriverine) Dirit deposits (B3) (Noneriverine) Dirit deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) fetel Observations: urface Water Present? Ves No Depth (inches): Surtace Water Present? Ves No Depth (inches): Surtace Water Present? Ves Union Persent finches): Surface Water Present? Ves Union Wetland Hydrology Bopple Mater Surface (F7) Wetland Hydrology Wetla	Other (Explain in Remarks)
Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Indicators of hydric soil. ydrology etland Hydrology Indicators: rimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Dirift deposits (B2) (Nonriverine) Dirift deposits (B3) (Noneriverine) Dirift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Wes No Depth (inches): Wetland Hydrose)	
Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Identify Indicators of hydric soil. pydrology fetland Hydrology Indicators: frimary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) fetl Observations: furface Water Present? further Yes No Depth (inches): Further Yes No Depth (inches): Wetland Hydroges Wetland Hydroges Wetland Hydroges Depth (inches): Wetland Hydroges Wetland Hydroges Wetland Hydroges Surface Soil Cracks Depth (inches): Further Yes Further Yes No Depth (inches): Further Yes Fu	
sandy Gleyed Matrix (S4) estrictive Layer (if present): Type: Depth (inches): Depth (inches)	ndicators of hydrophytic vegetation and
Type:	wetland hydrology must be present.
Type:	
Depth (inches):	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Wetland Hydrogen! Depth (inches): Wetland Hydrogen! Wetland Hydrogen! Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen! Wetland	ic Soil Present? Yes O No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Table Present? Yes No Depth (inches): Wetland Hydrology Wetland Hydrology Wetland Hydrology Presence of Reduced Iron (C4) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrology Wetland Hydro	
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Pepth (inches): Wetland Hydrogen Sulfide Odor (C1) Depth (inches):	
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Sield Observations: Urface Water Present? Yes No Depth (inches): Wetland Hyerest (Inches): Depth (inches): Depth (inches):	
Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Wetland Hyer Marks (B1) (Nonriverine) Saturation Present? Salt Crust (B11) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Biotic Crust (B12) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Biotic Crust (B12) Salt Crust (B12) Biotic Crust (B12) Salt Crust (B12) Salt Crust (B12) Biotic Crust (B12) Biotic Crust (B12) Salt Cru	
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water Table Present? Water Table Present? Was No Biotic Crust (B12) Aquatic Invertebrates (B13) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Depth (inches):	Secondary Indicators (2 or more required)
High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Drift deposits (B2) (Nonriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water Stained Leaves (B9) Water Table Present? Wetland Hystogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Depth (inches): Wetland Hyster Table Present? Wetland Hyster Posent (inches):	Water Marks (B1) (Riverine)
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Water-Stained Leaves (B9) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3) Presence of Reduced Iron (C4) Recent Iron Reduction in Plowed Soils (C6) Thin Muck Surface (C7) Other (Explain in Remarks) Wetland Hydrogen Sulfide Odor (C1) Depth (inches): Wetland Hydrogen Sulfide Odor (C1) Oxidized Rhizospheres along Living Roots (C3)	Sediment Deposits (B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) □ Drift deposits (B3) (Noneriverine) □ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Recent Iron Reduction in Plowed Soils (C6) □ Inundation Visible on Aerial Imagery (B7) □ Water-Stained Leaves (B9) □ Other (Explain in Remarks) □ Depth (inches):	Drift Deposits (B3) Riverine)
Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Observations: Urface Water Present? Yes No Depth (inches): Depth (inches): Wetland Hyeresters (P4) Depth (inches): Depth (inches): Depth (inches): Wetland Hyeresters (P4) Depth (inches):	Drainage Patterns (B10)
Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Other (Explain in Remarks) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aeri	Dry Season Water Table (C2)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ield Observations: urface Water Present? Yes ☐ No ⑥ Depth (inches): //ater Table Present? Yes ☐ No ⑥ Depth (inches): aturation Present? Yes ☐ No ⑥ Depth (inches): Wetland Hydrogeneric Present?	Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) ield Observations: urface Water Present? Yes No Depth (inches): Jater Table Present? Ves No Depth (inches): Wetland Hyer	Saturation Visible on Aerial Imagery (C9)
ield Observations: urface Water Present? Ves No ● Depth (inches): Vater Table Present? Ves No ● Depth (inches): Wetland Hydration Present?	Shallow Aguitard (D3)
urface Water Present? Yes No Depth (inches): Jater Table Present? Yes No Depth (inches): Wetland Hydration Present?	FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches): Jettration Present? Ves No Depth (inches): Wetland Hydrogeners (inches):	· '
Ves No ● Depth (inches): Wetland Hydratration Present?	
aturation Present? Ves No Penth (inches):	
attriation Plesent? Vas () No (•) Depth (inches):	
	rology Present? Yes No •
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if availab	Irology Present? Yes ○ No •
emarks:	
lo indicators of wetland hydrology.	

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Pay	yson/Utah Sampling Date: 12-Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT Sampling Point: 11
nvestigator(s):_Todd Sherman	Section, Town	nship, Range: \$ 4 T 9S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	oncave, convex, none): concave Slope: 1.0 % / 0
ubregion (LRR): LRR D	Lat.: 438843	Long.: 4436051 Datum: NAD83
bil Map Unit Name: Payson silty clay loam	100010	NWI classification: PEM
e climatic/hydrologic conditions on the site typical for th	his time of year?	No (If no, explain in Remarks.)
re Vegetation	significantly disturbed?	Are "Normal Circumstances" present? Yes No
		, , , , , , , , , , , , , , , , , , ,
re Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any answers in Remarks.)
	showing sampling poi	nt locations, transects, important features, etc.
	Is the Sa	impled Area
,	within a	Wetland? Yes No
Wetland Hydrology Present? Yes ● No ○		
Remarks: Palustrine emergent wetland that is part of	a large wetland complex.	
VECTATION		
VEGETATION - Use scientific names of pl	ants. Dominant Species? —	
Tree Stratum (Plot size:)	Absolute Rel.Strat. In % Cover Cover St	ndicator Dominance Test worksheet:
1	0 0.0%	Number of Dominant Species That are OBL, FACW, or FAC: 3 (A)
2	0 000	That are OBE, FAGW, OF FAG.
3.	0 000	Total Number of Dominant Species Across All Strata: 3 (B)
4.	0 0.0%	Species Across All Strata: 3 (B)
	0 = Total Cover	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)		That Are OBL, FACW, or FAC:100.0% (A/B)
1	0 0.0%	Prevalence Index worksheet:
2	0 0.0%	Total % Cover of: Multiply by:
3	0 0.0%	OBL species x 1 =
4. 5.	0 0.0%	FACW species <u>65</u> x 2 = <u>130</u>
J	0 0.0%	FAC species <u>35</u> x 3 = <u>105</u>
(Dist size)	0 = Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:)		UPL species $0 \times 5 = 0$
1. Juncus balticus		ACW Column Totals: 100 (A) 235 (B)
Distichlis spicata Carex praegracilis		ACW Prevalence Index = B/A = 2.350
4. Hordeum brachyantherum		ACIA
5. Suaeda occidentalis		Hydrophytic Vegetation Indicators: ACW Dominance Test is > 50%
6.	0 0.0%	✓ Prevalence Index is ≤3.0 ¹
7.	0 0.0%	Morphological Adaptations ¹ (Provide supporting
8.	0 0.0%	data in Remarks or on a separate sheet)
9.	0	Problematic Hydrophytic Vegetation ¹ (Explain)
10. 11.	0	
	0 0.0%	1 Indicators of hydric soil and wetland hydrology must
	100 = Total Cover	be present, unless disturbed or problematic.
1,	0	
	0 0.0%	Hydrophytic Vegetation

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Describe to	the depth nee	ded to document	the indic	cator or co	nfirm the	absence of indicators.)
Depth	Matrix			lox Featu			
(inches)	Color (moist)	<u>%</u>	Color (moist)	%	Type 1	Loc ²	Texture Remarks
0-8	10YR 3/1	100%					Loam
8-20	10YR 5/1	100%					Clay Loam
1 Type: C=Con	centration. D=Depletic	n. RM=Reduced	Matrix, CS=Covere	d or Coate	ed Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix
Hydric Soil I	ndicators: (Applical	ole to all LRRs)		Indicators for Problematic Hydric Soils: ³
Histosol (A			Sandy Redox (1 cm Muck (A9) (LRR C)
Histic Epip			Stripped Matrix				2 cm Muck (A10) (LRR B)
Black Histi	c (A3) Sulfide (A4)		Loamy Mucky				Reduced Vertic (F18)
	_ayers (A5) (LRR C)		Loamy Gleyed		2)		Red Parent Material (TF2)
	(A9) (LRR D)		✓ Depleted Matri				Other (Explain in Remarks)
	Below Dark Surface (A1	11)	Redox Dark Su				
I — ·	Surface (A12)	1)	Depleted Dark		F7)		
	ck Mineral (S1)		Redox depress	` ,			³ Indicators of hydrophytic vegetation and
I — -	yed Matrix (S4)		Vernal Pools (I	F9)			wetland hydrology must be present.
	yer (if present):						
Type:	iyer (ii present).						
	nes):						Hydric Soil Present? Yes No
Remarks:							
	aritaria for danlata	d matrix					
Sons meet the	criteria for deplete	u IIIauix.					
Hydrology	1						
Wetland Hyd	rology Indicators:						
	cators (minimum of	ono roquirod:	chock all that ann	alv)			Secondary Indicators (2 or more required)
Surface W		one required,	Salt Crust (B				Water Marks (B1) (Riverine)
	er Table (A2)		Biotic Crust	•			Sediment Deposits (B2) (Riverine)
Saturation			Aquatic Inve		(B13)		Drift Deposits (B3) Riverine)
l	ks (B1) (Nonriverine)		Hydrogen Su				Drainage Patterns (B10)
	Deposits (B2) (Nonrive	rine)	Oxidized Rhi		. ,	Roots (C3	
_	sits (B3) (Noneriverine		Presence of	•			Crayfish Burrows (C8)
	oil Cracks (B6)		Recent Iron			Soils (C6)	Saturation Visible on Aerial Imagery (C9)
	n Visible on Aerial Imag	gery (B7)	Thin Muck S			` ,	Shallow Aquitard (D3)
	ined Leaves (B9)		Other (Expla				FAC-neutral Test (D5)
Field Observa	ations:						
Surface Water	V	○ No ●	Depth (inc	hes):			
Water Table Pr		○ No ●	Depth (inc			_	
Saturation Pres				_		Wetla	and Hydrology Present? Yes No
(includes capill	ary iringe)		Depth (inc			_	
Describe Rec	orded Data (stream	gauge, monito	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:
Remarks:							
The soils exh	ibit surface cracks, i	ndicating perio	odic inundation/sa	aturation.			
		31					

rally pro	9 Yes disturbed? Is the Sa within a Dominant Species? Rel.Strat.	No CARRELL NO. (If need int local impled All Wetland	Long.: 4435901 NWI cla (If no, explain ormal Circumstances eded, explain any ans	ssification: Ur in Remarks.) " present? swers in Remarks.) " present? swers in Remarks.)	Datum: Note: Note: Note: Note: Note: Datum: Note: Datum: Note: Note: Note: Datum: Note: No	0 0
Absolute % Cover 0 0 0 0	Local relief (co	No C Are "No (If nee Int local Impled All Wetland	Long.: 4435901 NWI cla (If no, explain ormal Circumstances eded, explain any ans ations, transectors Yes No Dominance Test we Number of Dominant	ssification: Ut in Remarks.) " present? swers in Rema cts, import	Datum: No pland Yes No narks.) tant featu	res, etc.
Absolute % Cover 0 0 0 0	Pominant Species? Rel.Strar Cover St O.0% O.0% O.0% O.0%	No CARE "No CIF need int local ampled A Wetland	Long.: 4435901 NWI cla (If no, explain ormal Circumstances eded, explain any ans ations, transectors Yes No Communication	ssification: Ut in Remarks.) " present? swers in Rema ets, import	Datum: No	res, etc.
Absolute % Cover 0 0 0 0	Pominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	Are "No (If nee int local impled A Wetland	NWI cla (If no, explain ormal Circumstances eded, explain any ans ations, transec rea ? Yes No Dominance Test we Number of Dominant	in Remarks.) " present? swers in Remarks, import	Yes No	res, etc.
Absolute % Cover 0 0 0	Dominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	Are "No (If nee int local impled A Wetland	(If no, explain ormal Circumstances eded, explain any ansations, transectors rea Yes No Dominance Test we Number of Dominant	in Remarks.) " present? swers in Remarks, import	Yes ● Nonarks.)	res, etc.
Absolute % Cover 0 0 0	Dominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	Are "No (If nee int local impled A Wetland	ormal Circumstances eded, explain any ans ations, transec rea Pere No Dominance Test we Number of Dominant	present? swers in Rema cts, import	Yes • No	res, etc.
Absolute % Cover 0 0 0	Dominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	(If nee	rea Yes No Dominance Test w	swers in Rema	arks.)	res, etc.
Absolute % Cover 0 0 0 0 0	Dominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	(If nee	rea Yes No Dominance Test w	swers in Rema	tant featu	
Absolute % Cover 0 0 0 0 0	Dominant Species? Rel.Strat. In Cover St 0.0% 0.0% 0.0% 0.0%	int localism and l	ations, transectorea Yes No Dominance Test we Number of Dominant	cts, import	tant featu	
0 0 0 0	Dominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0%	Wetland	Yes No Dominance Test we Number of Dominant	orksheet: Species	1	(A)
0 0 0 0	Dominant Species? Rel.Strat. Cover 0.0% 0.0% 0.0%	Wetland	Yes No Dominance Test we Number of Dominant	orksheet: Species	1	(A)
0 0 0 0	Dominant Species? Rel.Strat. Ir Cover St 0.0% 0.0% 0.0% 0.0% 0.0%	ndicator	Dominance Test wo	orksheet: Species	1	(A)
0 0 0 0	Species? Rel.Strat. Ir Cover St		Number of Dominant	Species	1	(A)
0 0 0 0	Species? Rel.Strat. Ir Cover St		Number of Dominant	Species	1	(A)
0 0 0 0	Species? Rel.Strat. Ir Cover St		Number of Dominant	Species	_1_	(A)
0 0 0 0	Species? Rel.Strat. Ir Cover St		Number of Dominant	Species	1	(A)
0 0 0 0	Rel.Strat. Ir Cover St 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%		Number of Dominant	Species	1	(A)
0 0 0	0.0% 0.0% 0.0% 0.0%	tatus		•	1	(A)
0 0	0.0%		That are OBL, FACW,	or FAC:	1	(A)
0	0.0%					` '
0	0.0%		Total Number of Dom	ninant		
			Species Across All Str	ata:	2	(B)
0			Percent of dominar	nt Species		
	= Total Cover		That Are OBL, FAC		50.0%	(A/B)
0	0.0%		Prevalence Index v	vorkshoot:		
0	0.0%		Total % Cove		Iltiply by:	
0	0.0%		OBL species		1 = 0	
0	0.0%		FACW species		2 = 0	_
0	0.0%		FAC species		3 = 60	
0	= Total Cover		FACU species		4 = 0	_
			UPL species	70	5 = 350	_
70	✓ 77.8% U	JPL	Column Totals:	•	J -	— (В)
20	✓ 22.2% F	AC				_ (b)
0	0.0%		Prevalence Inc	lex = B/A =	4.556	
	0.0%		Hydrophytic Vegeta	ation Indicator	rs:	
	0.0%		Dominance Te			
0	0.0%		Prevalence In		_	
0	0.0%		Morphological data in Remar	Adaptations 1	(Provide sup	porting
0	0.0%					
0	0.0%		Problematic H	ydrophytic Ve	getation (Ex	plain)
0	0.0%		_			
90	= Total Cover					ogy must
			be present, unless	uistui beu oi p	or objectivatio.	
^	0.0%					
0	0.0%		Hydrophytic			
0			VEGERATION	es 🔾 No 🤄		
	= Total Cover		Present? Ye			
0						
0						
	0 0 90	0 0.0% 0 0.0% 90 = Total Cover 0 0.0%	0 0.0% 0 0.0% 90 = Total Cover	O 0.0% 90 = Total Cover 1 Indicators of hydrophytic Vegetation Problematic H 1 Indicators of hydrophytic Vegetation	Problematic Hydrophytic Ve 0 0.0% 90 = Total Cover 1 Indicators of hydric soil and w be present, unless disturbed or p 0 0.0% Hydrophytic Vegetation Vegetation	O O.0% O

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	,							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

Yes No Curbed? Are "No curbed? (If nee	Convex, none): concave Long.: 4436525 NWI classification: PEM (If no, explain in Remarks.) Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, etc.
Yes No Curbed? Are "No curbed? Are "No curbed? Are "No curbed? If need to bling point local list the Sampled A within a Wetland	Convex, none): Concave Long.: 4436525 NWI classification: PEM (If no, explain in Remarks.) Iormal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, etc.
Yes No Carbed? Are "No natic? (If nee poling point loc. Is the Sampled A within a Wetland	NWI classification: PEM (If no, explain in Remarks.) lormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) cations, transects, important features, etc.
Yes No Curbed? Are "No curbed? (If nee colling point local list the Sampled A within a Wetland	NWI classification: PEM (If no, explain in Remarks.) lormal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features, etc.
Yes No Curbed? Are "No curbed? (If nee colling point local list the Sampled A within a Wetland	NWI classification: PEM (If no, explain in Remarks.) lormal Circumstances" present? Yes No classifications, eded, explain any answers in Remarks.) eations, transects, important features, etc.
Irbed? Are "Nonatic? (If nee	(If no, explain in Remarks.) Idormal Circumstances" present? Yes No eded, explain any answers in Remarks.) Eations, transects, important features, etc.
Irbed? Are "Nonatic? (If nee	eded, explain any answers in Remarks.) cations, transects, important features, etc.
oling point loc Is the Sampled A within a Wetland	eded, explain any answers in Remarks.) cations, transects, important features, etc.
Is the Sampled A	cations, transects, important features, etc.
Is the Sampled A	Area
within a Wetland	Vac (a) Na (
	$_{ m 1?}$ res \odot NO \odot
nplex.	
прієх.	
ominant pecies?	
el.Strat. Indicator	Dominance Test worksheet:
over Status	Number of Dominant Species
0.0%	That are OBL, FACW, or FAC: (A)
0.0%	Total Number of Dominant
0.0%	Species Across All Strata:1(B)
otal Cover	Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B)
0.0%	Prevalence Index worksheet:
0.0%	Total % Cover of: Multiply by:
0.0%	0BL species 0 x 1 = 0
0.0%	FACW species <u>85</u> x 2 = <u>170</u>
0.0%	FAC species15 x 3 =45
otal Cover	FACU species $0 \times 4 = 0$
	UPL species x 5 =0
80.0% FACW	Column Totals: <u>100</u> (A) <u>215</u> (B)
15.0% FAC	
5.0% FACW 0.0%	
0.0%	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
0.0%	✓ Prevalence Index is ≤ 3.0 ¹
0.0%	
0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
0.0%	
0.0%	1 Indicators of hydric soil and wetland hydrology must
	be present, unless disturbed or problematic.
otal Cover	
otal Cover	
otal Cover	Hydrophytic Vegetation
0.0% 0.0%	
0.0% 0.0% otal Cover	Present? Yes No
0.0% 0.0%	Present? Yes ♥ No ∪
-	0.0%

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth nee	eded to document	the indic	ator or co	nfirm the	absence of indicators.)
Depth Matrix		ox Featu			
(inches) Color (moist) %	Color (moist)	%	Tvpe 1	Loc ²	Texture Remarks
0-10 10YR 2/1 100%					Loam
10-20 10YR 5/1 100%					Clay Loam
		-			
1 Type: C=Concentration. D=Depletion. RM=Reduce	d Matrix, CS=Covered	or Coate	d Sand Grai	ins ² Loca	tion: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRRs	s, unless otherwise	noted.)			Indicators for Problematic Hydric Soils: ³
Histosol (A1)	Sandy Redox (S	35)			1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix	(S6)			2 cm Muck (A10) (LRR B)
Black Histic (A3)	Loamy Mucky M	lineral (F	1)		Reduced Vertic (F18)
Hydrogen Sulfide (A4)	Loamy Gleyed M	Matrix (F2	2)		Red Parent Material (TF2)
Stratified Layers (A5) (LRR C)	✓ Depleted Matrix	(F3)			Other (Explain in Remarks)
1 cm Muck (A9) (LRR D)	Redox Dark Sur	face (F6)			_ ,
Depleted Below Dark Surface (A11)	Depleted Dark	Surface (F	7)		
Thick Dark Surface (A12)	Redox depressi	ons (F8)			³ Indicators of hydrophytic vegetation and
Sandy Muck Mineral (S1)	Vernal Pools (F	9)			wetland hydrology must be present.
Sandy Gleyed Matrix (S4)					3 33 1
Restrictive Layer (if present):					
Type:					Hydric Soil Present? Yes ● No ○
Depth (inches):	_				103 0 110 0
Remarks:					
Soils meet the criteria for depleted matrix.					
I be also be an experience of the second of					
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required;	check all that appl	y)			Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B1	1)			Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust (I	312)			Sediment Deposits (B2) (Riverine)
Saturation (A3)	Aquatic Inver	tebrates ((B13)		Drift Deposits (B3) Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sul	fide Odor	(C1)		Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhiz	•	-	g Roots (C3	B) Dry Season Water Table (C2)
☐ Drift deposits (B3) (Noneriverine)	Presence of R	educed I	ron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron R	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su				Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)	Other (Explain	n in Rema	arks)		FAC-neutral Test (D5)
Field Observations:					
Surface Water Present? Yes O No •	Depth (inch	es):		_	
Water Table Present? Yes O No •	Depth (inch	es):		_	
Saturation Present? (includes capillary frings) Yes No No	Depth (inch			Wetla	and Hydrology Present? Yes No
(includes capillary inflige)	• •		laus Inspa	- otiono) if	quallable
Describe Recorded Data (stream gauge, monit	or weir, aeriai phot	us, prev	ious irispe	cuons), II	avanavie.
Remarks:					
The soils were dry at the time of the delineation	n hut two seconds	ary indic	ators are r	resent	
The sons were dry at the time of the defineduc	ii, but two second	ary much	ators are p	/1 0301 IL.	

Applicant/Owner: Utah Department of Transportation Investigator(s): Todd Sherman Landform (hillslope, terrace, etc.): Valley botton Subregion (LRR): LRR D Soil Map Unit Name: Payson silty clay loam Are climatic/hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation Present? Yes Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1	Lat.: 4: ical for this time of year ogy significantly ogy naturally pro	Yes No No disturbed? Are "No oblematic? (If ne	convex, none): flat Long.: 4435637 NWI classification (If no, explain in Remar Normal Circumstances" present	rks.)
Landform (hillslope, terrace, etc.): Valley botton Subregion (LRR): LRR D Soil Map Unit Name: Payson silty clay loam Are climatic/hydrologic conditions on the site type Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation Present? Yes , or Hydrologic Vegetation Present? Yes , wetland Hydrology Present? Yes , wetland Hydrology Present? Yes , wetland Hydrology Present? Yes , wetland Area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1. 2. 3. 4. Sapling/Shrub Stratum (Plot size:	Lat.: 4: ical for this time of year ogy asignificantly ogy naturally proceed map showing satisfies to the control of the co	Local relief (concave, 38519 ?? Yes No Condition No Cond	convex, none): flat Long.: 4435637 NWI classification (If no, explain in Remar Normal Circumstances" present	Slope: 2.0 % / 1. Datum: NAD83 n: Upland rks.) ? Yes • No •
Subregion (LRR): LRR D Soil Map Unit Name: Payson silty clay loam The climatic/hydrologic conditions on the site type Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation Present?	Lat.: 4: ical for this time of year ogy asignificantly ogy naturally proceed map showing satisfies to the control of the co	Yes ● No disturbed? Are "No oblematic? (If new	Long.: 4435637 NWI classification (If no, explain in Remar Normal Circumstances" present	Datum: NAD83 n: Upland rks.) ? Yes • No •
Soil Map Unit Name: Payson silty clay loam are climatic/hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Are Vegetation , Soil , or Hydrologic Summary of Findings - Attach site Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1. 2. 3. 4. Sapling/Shrub Stratum (Plot size:	oical for this time of year ogy significantly ogy naturally pro e map showing sa No No No	r? Yes ● No O disturbed? Are "No oblematic? (If nec	NWI classification (If no, explain in Remar Normal Circumstances" present	rks.) ? Yes • No
Are Vegetation	ogy significantly ogy naturally pro e map showing sa No No No	disturbed? Are "Noblematic? (If new	(If no, explain in Remar Normal Circumstances" present eeded, explain any answers in R	rks.) ? Yes • No ·
re climatic/hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic conditions on the site typ Are Vegetation , Soil , or Hydrologic conditions on the site typ Remarks	ogy significantly ogy naturally pro e map showing sa No No No	disturbed? Are "Noblematic? (If new	Normal Circumstances" present	? Yes No
Are Vegetation , Soil , or Hydrolo Summary of Findings - Attach site Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1	ogy naturally pro e map showing sa No No	oblematic? (If new	eeded, explain any answers in R	
Summary of Findings - Attach site Hydrophytic Vegetation Present? Yes O Hydric Soil Present? Yes O Wetland Hydrology Present? Yes O Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1	e map showing sa	oblematic? (If new	eeded, explain any answers in R	
Summary of Findings - Attach site Hydrophytic Vegetation Present? Yes O Hydric Soil Present? Yes O Wetland Hydrology Present? Yes O Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1	e map showing sa	ampling point loc		certai ks.)
Hydric Soil Present? Wetland Hydrology Present? Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1 234 Sapling/Shrub Stratum (Plot size:)	No •	Is the Sampled /		portant features, etc.
Wetland Hydrology Present? Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1			Aroa	
Remarks: Upland area adjacent to SP-13. VEGETATION - Use scientific name Tree Stratum (Plot size:) 1 2 34 Sapling/Shrub Stratum (Plot size:)	No •	-	Vac O Na 🔘	
VEGETATION - Use scientific name Tree Stratum (Plot size:) 1. 2. 3. 4. Sapling/Shrub Stratum (Plot size:)		within a Wetland	d? 163 ○ 110 ○	
VEGETATION - Use scientific name Tree Stratum (Plot size:) 1				
Tree Stratum (Plot size:)				
Tree Stratum (Plot size:)				
1	es of plants.	Dominant		
1	Absolute	—Species? —— e Rel.Strat. Indicator	Dominance Test worksheet:	
2. 3. 4. Sapling/Shrub Stratum (Plot size:	% Cove	r Cover Status	Number of Dominant Species	
3. 4. Sapling/Shrub Stratum (Plot size:	-		That are OBL, FACW, or FAC:	1(A)
4. Sapling/Shrub Stratum (Plot size:		0.0%	Total Number of Dominant	
Sapling/Shrub Stratum (Plot size:	0	0.0%	Species Across All Strata:	2 (B)
	0	0.0%	Percent of dominant Species	
		= Total Cover	That Are OBL, FACW, or FAC	
	0	0.0%	Prevalence Index worksheet:	
1 2.	0	0.0%	Total % Cover of:	Multiply by:
3.	0	0.0%	OBL species 0	x 1 = 0
4.	0	0.0%	FACW species0_	x 2 =
5.	0	0.0%	FAC species 20	x 3 = 60
	0	= Total Cover	FACU species 0	x 4 = 0
Herb Stratum (Plot size:)			UPL species 80	x 5 = 400
1. Agropyron elongatum		✓ 80.0% UPL	Column Totals: 100	•
2. Distichlis spicata		✓ 20.0% FAC		
3		0.0%	Prevalence Index = B/A	= 4.600
4 5.		0.0%	Hydrophytic Vegetation India	cators:
6.	0	0.0%	Dominance Test is > 50°	
7.		0.0%	Prevalence Index is ≤3.	
8.		0.0%	Morphological Adaptation data in Remarks or on a	ons ¹ (Provide supporting
9.	0	0.0%		
10.	0	0.0%	Problematic Hydrophytic	c Vegetation ¹ (Explain)
11.	0	0.0%		
	100	= Total Cover	1 Indicators of hydric soil and be present, unless disturbed	
Woodv Vine Stratum (Plot size:	_)		be present, unless disturbed	problematic.
1	0	0.0%		
2				
		0.0%	Hydrophytic	
% Bare Ground in Herb Stratum: 0		= Total Cover	Vogotation	No ◉
Remarks:	0	= Total Cover	Vegetation	lo •
The area does not meet the vegetation criteria.	0	= Total Cover	Vegetation	lo •

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2	100%					Loam	
				-			-	
				-				
Typo: C-Con	contration D_Donlation		d Matrix, CS_Covere	d or Coate	d Sand Crair	ns 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					is -Lucat	-	
Ť		ie to ali ERR						oblematic Hydric Soils:3
J Histosol (/J Histic Epip	•		Sandy Redox (1 cm Muck (A9	
Black Hist			Stripped Matrix		1)		2 cm Muck (A1	, , ,
=	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	, ,
	_ayers (A5) (LRR C)		Loamy Gleyed		:)		Red Parent Mat	, ,
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		- /)			
Sandy Mu	ck Mineral (S1)		Redox depress				3 Indicators of hydronical properties of the second contract of t	rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	gy must be present.
estrictive La	yer (if present):							
	J. (1)							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	? Yes ○ No •
Depth (incl	nes): of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No O
Depth (incl demarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: Dindicators Dindicators Ydrology Vetland Hyd	of hydric soil.	one required	check all that app	oly)			,	? Yes No •
Depth (included like the property of the prope	of hydric soil. / rology Indicators: cators (minimum of c	one required	: check all that app				_Secondary I	
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of c	one required		11)			Secondary I	ndicators (2 or more required)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12)	(B13)		Secondary I	ndicators (2 or more required) irks (B1) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12) rtebrates (Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indi Surface W High Wate Saturation Water Mai	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (includer land land) Depth (includer l	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Wate Saturation Water Mai Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) (ks (B1) (Nonriverine) Deposits (B2) (Nonriver	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I	· (C1) along Living ron (C4)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation Water Man Sediment Drift depo Surface Screace Screace	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso Crayfish E Saturatio	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (incl demarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface So Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imag	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine) ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Remarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observa	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit (Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incle temarks: poindicators of indicators of indica	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Image ined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturation Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Dydrology Vetland Hyd Primary India Surface W High Water Saturation Water Sta Inundation Water-Sta Vield Observation Water Table Presented Presented Presented Staturation Presented Semarks Staturation Presented Presented Presented Presented Presented Presented Presented P	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Sydrology Vetland Hyd Primary India Surface Water Man Drift depo Surface Sc Inundation Water-Sta Sield Observator Water Table Prosaturation Presincludes capill	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators lydrology Vetland Hyd Primary India Surface W High Water Saturation Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta Field Observation Surface Water Vater Table Prosaturation Presincludes capill Describe Reco	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation Water Table Preaturation Presencludes capill Describe Rec	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta Veter Table Prestricted Water Vater Table Prestricted Seconds ield Observation Water-Sta Veter Table Prestricted Seconds Describe Recommarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No qauge, monit	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)

Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map shown the Hydrophytic Vegetation Present? Yes No Yes No Yes No Yes No Yes No Yes	e of year? Yes No Conficantly disturbed? Are "No Conficantly problematic? (If new	Convex, none): concave Long.: 4435555 NWI classification: PEM (If no, explain in Remarks.) clormal Circumstances" present? Yes No
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Peteetneet-Holdaway complex re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology naturate Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	Local relief (concave, of Lat.: 438442 e of year? Yes No Conficantly disturbed? Are "No conficantly problematic? (If new ving sampling point local po	Convex, none): concave Slope: 1.0 % / 0.6 Long.: 4435555 Datum: NAD83 NWI classification: PEM (If no, explain in Remarks.) clormal Circumstances" present? Yes No Oeeded, explain any answers in Remarks.)
Subregion (LRR): LRR D Soil Map Unit Name: Peteetneet-Holdaway complex re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map shown Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	e of year? Yes No Initionally disturbed? Are "Nurally problematic? (If new ving sampling point loc	Long.: 4435555 NWI classification: PEM (If no, explain in Remarks.) Jormal Circumstances" present? Yes No Oeeded, explain any answers in Remarks.)
Subregion (LRR): LRR D Soil Map Unit Name: Peteetneet-Holdaway complex re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map shown Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	e of year? Yes No Initionally disturbed? Are "Nurally problematic? (If new ving sampling point loc	Long.: 4435555 NWI classification: PEM (If no, explain in Remarks.) Jormal Circumstances" present? Yes No No
Goil Map Unit Name: Peteetneet-Holdaway complex re climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology sign. Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map show. Hydrophytic Vegetation Present? Yes No Hydrology Present? Wetland Hydrology Present? Yes No	e of year? Yes No No inificantly disturbed? Are "No urally problematic? (If new ving sampling point loc	NWI classification: PEM (If no, explain in Remarks.) Iormal Circumstances" present? Yes No eded, explain any answers in Remarks.)
re climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology	nificantly disturbed? Are "Nurally problematic? (If new	(If no, explain in Remarks.) lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)
Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No	nificantly disturbed? Are "Nurally problematic? (If new	lormal Circumstances" present? Yes No eded, explain any answers in Remarks.)
Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map shown the Hydrophytic Vegetation Present? Yes No Yes No Yes No Yes No Yes No Yes	urally problematic? (If new ving sampling point loc	eded, explain any answers in Remarks.)
Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Ves No V	ving sampling point loc	
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present? Yes No Yes No Yes No No Yes No Yes No No Yes No Yes No Yes No No Yes No		
Hydric Soil Present? Yes No Yes No	Is the Sampled A	
Wetland Hydrology Present? Yes No No	is the campica?	
5 .	within a Wetland	d? Yes ● No ○
Remarks: Palustrine emergent wetland.		
VEGETATION - Use scientific names of plants.	Dominant	
<u>'</u>	Species?	Dominance Test worksheet.
l	Absolute Rel.Strat. Indicator % Cover Cover Status	
1.	0 0.0%	Number of Dominant Species That are OBL, FACW, or FAC:1 (A)
2	0 0.0%	T. LIN . L CD . L L
3	0 0.0%	Total Number of Dominant Species Across All Strata: 1 (B)
4.	0 0.0%	
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1	0 0.0%	Prevalence Index worksheet:
2	0 0.0%	Total % Cover of: Multiply by:
3	0 0.0%	0BL species <u>85</u> x 1 = <u>85</u>
4. 5.	0 0.0%	FACW species 0 x 2 = 0
<u>. </u>	0 0.0%	FAC species x 3 =
(Plot size:	0 = Total Cover	FACU species x 4 =0
Herb Stratum (Plot size:)	85 ✓ 94.4% OBL	UPL species $\frac{5}{}$ x 5 = $\frac{25}{}$
Carex nebrascensis Agropyron elongatum	85	Column Totals:90_ (A)110_ (B)
3.	0 0.0%	Prevalence Index = B/A = 1.222
4.	0 0.0%	Hydrophytic Vegetation Indicators:
5.	0 0.0%	✓ Dominance Test is > 50%
6.	0 0.0%	✓ Prevalence Index is ≤3.0 ¹
7.	0 0.0%	Morphological Adaptations ¹ (Provide supporting
8. 9.	0 0.0%	data in Remarks or on a separate sheet)
10.	0 0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0 0.0%	
	0 0.0% 90 = Total Cover	¹ Indicators of hydric soil and wetland hydrology must
		be present, unless disturbed or problematic.
1.	0	
2.	0 0.0%	Hydrophytic
	0 = Total Cover	Vegetation Present? Yes No O
% Bare Ground in Herb Stratum: 10 % Cove	er of Biotic Crust 0	
Remarks:		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth need	led to document	the indic	cator or co	nfirm the	absence of indicators.)
Depth Matrix		ox Featu			
	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks
0-8 10YR 3/2 100%					Loam
8-20 10YR 3/1 100%					Clay Loam
		-			
1 Type: C=Concentration. D=Depletion. RM=Reduced	Matrix, CS=Covered	l or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRRs,	_)		Indicators for Problematic Hydric Soils: ³
Histosol (A1)	Sandy Redox (S				1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky N				Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed I		2)		Red Parent Material (TF2)
1 cm Muck (A9) (LRR D)	Depleted Matrix				Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Sur				
☐ Thick Dark Surface (A12)	Depleted Dark		F7)		
Sandy Muck Mineral (S1)	Redox depressi				³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Vernal Pools (F	9)			wetland hydrology must be present.
Restrictive Layer (if present):					
Type:					
Depth (inches):					Hydric Soil Present? Yes ● No ○
Remarks:	_				
	are but the soils	aro satu	rated at th	o surface	during the dry season, meeting the definition of a
hydric soil.	ors, but the sons	are satu	ii ateu at ti	ie surrace	during the dry season, meeting the definition of a
Hydrology					
Wetland Hydrology Indicators:					
	book all that ann	1)			Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; c	Salt Crust (B1				Water Marks (B1) (Riverine)
✓ High Water Table (A2)	Biotic Crust (I	•			Sediment Deposits (B2) (Riverine)
✓ Saturation (A3)	Aquatic Inver		(B13)		Drift Deposits (B3) Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sul				Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhiz			a Roots (C3	
Drift deposits (B3) (Noneriverine)	Presence of R	-	-	3	Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron F			Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su	rface (C7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explai	n in Rema	arks)		FAC-neutral Test (D5)
Field Observations:					
Surface Water Present? Yes O No •	Depth (inch	es):			
Water Table Present? Yes • No •	Depth (inch		8	_	
				Wetla	and Hydrology Present? Yes No
(includes capillary fringe) Yes No	Depth (inch	es):	0	_	
Describe Recorded Data (stream gauge, monitor	well, aerial phot	os, prev	ious inspe	ctions), if	available:
Remarks:					
The soils were saturated at the surface with a sh	nallow water table	e. Poter	ntially from	ririgation	

State: UT Sampling Point: 16
ıship, Range: S 4 T 9S R 2E
ncave, convex, none): flat Slope:2.0 % / 1.
Long.: 4435550 Datum: NAD83
NWI classification: Upland
F
(If needed, explain any answers in Remarks.) nt locations, transects, important features, etc.
mpled Area
_{Wetland?} Yes ○ No ●
dicator Dominance Test worksheet:
Number of Dominant Species
That are OBL, FACW, or FAC: O (A)
Total Number of Dominant
Species Across All Strata: 2 (B)
Descent of deminant Charles
Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species 5 x 1 = 5
FACW species5 x 2 =10
FAC species x 3 = 0
FACU species $\underline{20}$ x 4 = $\underline{80}$
UPL species $\frac{70}{}$ x 5 = $\frac{350}{}$
PL Column Totals: 100 (A) 445 (B)
ACW Prevalence Index = B/A = 4.450
DI .
Hydrophytic Vegetation Indicators: Dominance Test is > 50%
Prevalence Index is ≤3.0 ¹
Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
1 Indicators of hydric soil and wetland hydrology must
be present, unless disturbed or problematic.
Hydrophytic
Vegetation Var O Na 🔊
Present? Yes No S

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth nee	ded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth Matrix		ox Featu				
(inches) Color (moist) %	Color (moist)	%	Tvpe 1	Loc ²		Remarks
0-20 10YR 3/2 100%					Loam	
1 Type: C=Concentration. D=Depletion. RM=Reduced	Matrix, CS=Covered	d or Coate	d Sand Gra	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Applicable to all LRRs	, unless otherwise	noted.)			Indicators for Problematic Hydric	Soils 3
Histosol (A1)	Sandy Redox (1 cm Muck (A9) (LRR C)	30113.
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucky N)		Reduced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed				Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C)	Depleted Matri:				Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Su				other (Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Dark	Surface (F	7)			
Thick Dark Surface (A12)	Redox depressi	ons (F8)			3	
Sandy Muck Mineral (S1)	Vernal Pools (F	9)			Indicators of hydrophytic vegetation wetland hydrology must be presen	and t
Sandy Gleyed Matrix (S4)					wettand flydrology flidst be presen	
Restrictive Layer (if present):						
Type:					Undei- Cail Brannet	No •
Depth (inches):	_				Hydric Soil Present? Yes	NO S
Remarks:						
No indicators of hydric soil.						
Hydrology						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required;	check all that app	lv)			Secondary Indicators (2 or r	nore required)
Surface Water (A1)	Salt Crust (B				Water Marks (B1) (Riverine)	
☐ High Water Table (A2)	☐ Biotic Crust (B12)			Sediment Deposits (B2) (Riv	verine)
Saturation (A3)	Aquatic Inver	tebrates (B13)		Drift Deposits (B3) Riverine))
☐ Water Marks (B1) (Nonriverine)	Hydrogen Su	lfide Odor	(C1)		Drainage Patterns (B10)	
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhiz	ospheres	along Livin	g Roots (C3	B) Dry Season Water Table (C2	2)
☐ Drift deposits (B3) (Noneriverine)	Presence of F	Reduced Ir	on (C4)		Crayfish Burrows (C8)	
Surface Soil Cracks (B6)	Recent Iron F	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial	Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su	ırface (C7))		Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	Other (Explai	n in Rema	ırks)		FAC-neutral Test (D5)	
Field Observations:						
Surface Water Present? Yes O No •	Depth (inch	nes):				
Water Table Present? Yes No •	Depth (inch			-		
				Wetla	and Hydrology Present? Yes	No 💿
Saturation Present? (includes capillary fringe) Yes No No	Depth (inch	nes):		-		
Describe Recorded Data (stream gauge, monito	or well, aerial pho	tos, previ	ious inspe	ctions), if	available:	
Remarks:						
No indicators of wetland hydrology.						

-	erchange EIS	C	ity/County:	Payson/Utal	h	Sampl	ing Date: <u>13-0</u>	Oct-15
Applicant/Owner: Utah Department of Tra	ansportation				State: UT	San	npling Point:	17
Investigator(s): Todd Sherman			Section, To	wnship, Ra	ange: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.): Va	alley bottom		Local relief	(concave, d	convex, none): fla	t	Slope:	2.0 % / 1.
		Lat.: 437	7834		Long.: 4434672		 Datun	n: NAD83
oil Map Unit Name: McBeth silt loam					NWI	classification	: Unland	
e climatic/hydrologic conditions on the	e site typical for this	time of year?	Yes	● No ○		ain in Remar		
		significantly		Are "N	ormal Circumstan			No O
-		naturally prob			eded, explain any a	•		
Summary of Findings - Atta								itures, etc.
Hydrophytic Vegetation Present?	Yes O No •		latha	Communicat A				
Hydric Soil Present?	Yes O No 🗨			Sampled A	Vac O Na			
Wetland Hydrology Present?	Yes O No 💿		within	a Wetland	_{l?} res ∪ No			
Remarks: Mesic upland in the borro	ow area between the	interstate and	the railroad					
Mesic upiand in the borre	JW area between the	interstate and	i trie raili oau	•				
VEGETATION - Use scientif	fic names of plar	nts.	Dominant					
		Absolute	—Species? Rel.Strat.	Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)	% Cover		Status	Number of Domina	ant Species		
1		0	0.0%		That are OBL, FAC	•	1_	(A)
2		0	0.0%		Total Number of D	ominant		
3		0	0.0%		Species Across All		3	(B)
4		0	0.0%		Percent of domin	nant Species		
)	0	= Total Cove	er	That Are OBL, F			% (A/B)
1.		0	0.0%		Prevalence Index	v workshoot		
2.			0.0%		Total % Co		Multiply by:	
3.			0.0%		OBL species	10		10
4.		0	0.0%		FACW species	30		60
5.		0	0.0%		FAC species	0		0
		0	= Total Cove	er	FACU species	20		80
Herb Stratum (Plot size:)				UPL species	30		50
1. Phalaris arundinacea			33.3%	FACW	Column Totals	. 90		800 (B)
•			22.2%	UPL				
Cirsium arvense Carex nebrascensis			22.2%	FACU	Prevalence	Index = B/A	= 3.33	3_
5. Convolvulus arvensis			11.1%	UPL OBL	Hydrophytic Veg			
6.		0	0.0%	UPL	_	Test is > 50 Index is ≤ 3 .		
7.		0	0.0%					
8.		0	0.0%				ons ¹ (Provide separate shee	
9.		0	0.0%				c Vegetation ¹	
10.		0	0.0%		Troblematic	, riyaropilyti	o vegetation	(Explain)
11.		0	0.0%		1			
		90	= Total Cove	er	1 Indicators of h			
(Plot size:)		_		• ·		•	
1.		0	0.0%					
		0	0.0%		Hydrophytic			
2.					Vegetation	_		
			= Total Cove	er	Vegetation Present?	Yes O	lo •	
	10 %			er		Yes O	lo •	
2.	10 %	0		er		Yes O N	lo •	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth ne	eded to document the indi	cator or confirm th	ne absence of indicators.)	
Depth Matrix	Redox Feat			
(inches) Color (moist) %	Color (moist) %	Type 1 Loc2		Remarks
0-20 10YR 2/2 100%			Loam	
1 Type: C=Concentration. D=Depletion. RM=Reduce	d Matrix, CS=Covered or Coat	ed Sand Grains ² Lo	cation: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Applicable to all LRR	s, unless otherwise noted.)	Indicators for Problema	tic Hydric Soils: ³
Histosol (A1)	Sandy Redox (S5)		1 cm Muck (A9) (LRR	•
Histic Epipedon (A2)	Stripped Matrix (S6)		2 cm Muck (A10) (LRR	•
☐ Black Histic (A3)	Loamy Mucky Mineral (F	F1)	Reduced Vertic (F18)	,
Hydrogen Sulfide (A4)	Loamy Gleyed Matrix (F	2)	Red Parent Material (T	F2)
Stratified Layers (A5) (LRR C)	Depleted Matrix (F3)		Other (Explain in Rem	•
1 cm Muck (A9) (LRR D)	Redox Dark Surface (F6)	_ ``	•
Depleted Below Dark Surface (A11)	Depleted Dark Surface ((F7)		
Thick Dark Surface (A12)	Redox depressions (F8)		³ Indicators of hydrophytic	
Sandy Muck Mineral (S1)	Vernal Pools (F9)		wetland hydrology mus	t be present.
Sandy Gleyed Matrix (S4)				
Restrictive Layer (if present):				
Type:			Hydric Soil Present?	Yes ○ No •
Depth (inches):				163 0 110 0
Remarks:				
No indicators of hydric soil.				
Llydrology				
Hydrology				
Wetland Hydrology Indicators:				
Primary Indicators (minimum of one required	; check all that apply)		Secondary Indicate	ors (2 or more required)
Surface Water (A1)	Salt Crust (B11)		Water Marks (B1) (Riverine)
☐ High Water Table (A2)	Biotic Crust (B12)		<u> </u>	ts (B2) (Riverine)
Saturation (A3)	Aquatic Invertebrates		Drift Deposits (B	3) Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Sulfide Odd	or (C1)	Drainage Patterr	s (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizosphere			
Drift deposits (B3) (Noneriverine)	Presence of Reduced		Crayfish Burrows	
Surface Soil Cracks (B6)	Recent Iron Reduction			e on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Surface (C		Shallow Aquitard	
☐ Water-Stained Leaves (B9)	U Other (Explain in Rem	narks)	FAC-neutral Test	(D5)
Field Observations:				
Surface Water Present? Yes No No	' ' _			
Water Table Present? Yes No •	Depth (inches):			
Saturation Present? (includes capillary fringe) Yes O No •	Depth (inches):		tland Hydrology Present?	Yes ○ No ●
Describe Recorded Data (stream gauge, moni	tor well, aerial photos, pre	vious inspections),	if available:	
Remarks:				
No indicators of wetland hydrology.				

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson	/Utah	Sampling Date: 13-Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT	Sampling Point: 18
nvestigator(s): Todd Sherman	Section, Township	p, Range: S 5 T 95	R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (conca	ve, convex, none): flat	Slope: 2.0 % / 1.
ubregion (LRR): LRR D	Lat.: 437601	Long.: 4434394	Datum: NAD83
pil Map Unit Name: McBeth silt loam		— NWI classifi	cation: Upland
e climatic/hydrologic conditions on the site typical for	this time of year? Yes N		
re Vegetation . , Soil . , or Hydrology .	- -	e "Normal Circumstances" pr	esent? Yes No
re Vegetation		f needed, explain any answer	
Summary of Findings - Attach site map	•	•	
Hydrophytic Vegetation Present? Yes No •			
Hydric Soil Present? Yes O No •	Is the Sampl	Vac O Na 📵	
Wetland Hydrology Present? Yes ○ No •	within a Wet	land? res 🔾 NO 😊	
Remarks: Mesic upland in the borrow area between	the interstate and the railroad. The	area supports willows with a	n upland understory.
VEGETATION - Use scientific names of p	Janta D		
vegetation - ose scientific fiames of p	Species? ——		
Tree Stratum (Plot size:)	Absolute Rel.Strat. Indica	s	
1	0 0.0%	Number of Dominant Spec That are OBL, FACW, or F	
2	0	Total Number of Dominan	†
3	0	Species Across All Strata:	
4	0	Percent of dominant Sp	nocios
Sapling/Shrub Stratum (Plot size:)	= Total Cover	That Are OBL, FACW, of	
1. Salix exigua	100 🗹 100.0% FACW	Prevalence Index work	sheet.
2.	0 0.0%	Total % Cover of	
3.	0 0.0%		0 x 1 = 0
4.	0 0.0%	FACW species 1	00 x 2 = 200
5.	0	FAC species	0 x 3 = 0
(District)	100 = Total Cover	FACU species5	<u>50</u> x 4 = <u>200</u>
Herb Stratum (Plot size:)	50 100 004 54011	OF L Species ===	0 x 5 = 0
1. Cirsium arvense 2.	<u>50</u> <u> </u>	Column Totals: 1	50 (A) 400 (B)
2. 3.		Prevalence Index =	= B/A = 2.667
4.	0.0%	Hydrophytic Vegetation	Indicators:
5.	0.0%	Dominance Test is	
6.	0	Prevalence Index	is ≤3.0 ¹
7. 8.	0 0.0%	Morphological Ada	ptations ¹ (Provide supporting
9.	0		r on a separate sheet)
10.	0 <u> 0.0%</u>	Problematic Hydro	phytic Vegetation ¹ (Explain)
11.	0 0.0%		
	50 = Total Cover		soil and wetland hydrology must
		be present, unless dist	urbed or problematic.
Woody Vine Stratum (Plot size:)			
	0		
	0 0.0%	Hydrophytic	
1,		Hydrophytic Vegetation Present? Yes	No ●
1 2	0 0.0%	Vegetation	O No ⊙

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Texture Remarks
Pore Lining. M=Matrix
cators for Problematic Hydric Soils: ³
1 cm Muck (A9) (LRR C)
2 cm Muck (A10) (LRR B)
Reduced Vertic (F18)
Red Parent Material (TF2)
Other (Explain in Remarks)
licators of hydrophytic vegetation and
etland hydrology must be present.
: Soil Present? Yes O No 💿
Secondary Indicators (2 or more required)
Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) Riverine)
Drainage Patterns (B10)
Dry Season Water Table (C2)
Crayfish Burrows (C8)
Saturation Visible on Aerial Imagery (C9)
Shallow Aquitard (D3)
FAC-neutral Test (D5)
FAC-Heutiai Test (D3)
ology Present? Yes O No 💿
<u>:</u>
<u>: </u>
<u>:</u>
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roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 13-Oct-15
pplicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 19
nvestigator(s):_Todd Sherman	Section, Township, Range: S 5 T 9S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): concave Slope: 1.0 % /
ubregion (LRR): LRR D	Lat.: 437561 Long.: 4434621 Datum: NAD83
oil Map Unit Name: McBeth silt loam	NWI classification: PEM
e climatic/hydrologic conditions on the site typical for thi	
re Vegetation	significantly disturbed? Are "Normal Circumstances" present? Yes No
	,
re Vegetation	naturally problematic? (If needed, explain any answers in Remarks.) Nowing sampling point locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes No	Is the Sampled Area Within a Wotland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
Remarks: Palustrine emergent wetland adjacent to Ma	Street
raidstille effergent wettand adjacent to Ma	i street.
VEGETATION - Use scientific names of pla	
	Species? Absolute Rel.Strat. Indicator Dominance Test worksheet:
(Plot size:)	% Cover Cover Status Number of Dominant Species
1	O That are OBL, FACW, or FAC: (A)
2	
3. 4.	O Species Across All Strata: 1 (B)
<u> </u>	
Sapling/Shrub Stratum (Plot size:)	
1.	_0 0.0% Prevalence Index worksheet:
2.	
3.	0 0.0% 0BL species 85 x 1 = 85
4.	0 0.0% FACW species 15 x 2 = 30
5.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0 = Total Cover FACU species 0 x 4 = 0
Herb Stratum (Plot size:)	UPL species $0 \times 5 = 0$
1. Typha latifolia	
2. Phragmites australis	10
Epilobium ciliatum Carex rostrata	5 5 60% ON
5.	5
6.	
7.	0 0.0% Morphological Adaptations 1 (Provide supporting
8.	
9.	0.0% Problematic Hydrophytic Vegetation 1 (Explain)
10. 11.	
	100 - Total Cover
(0)	= Total Cover be present, unless disturbed or problematic.
Woodv Vine Stratum (Plot size:)	0 000
1. 2.	
- ·	Hydrophytic
	0 = Total Cover Present? Yes ● No ○
% Bare Ground in Herb Stratum: () %	Cover of Biotic Crust n

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix Redox Features Loam
Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains
1 Type: C-Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Type: C-Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) 1 stripped Matrix (S6) 2 cm Muck (A10) (LRR B) 1 slack Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) 1 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 3 cm Muck (A9) (LRR C) 2 cm Muck (A9) (LRR C) 3 cm Muck (A11) 3 cm Muck (A9) (LRR C) 3 cm Muck (A11) 3 cm Muck (A9) (LRR C) 4 cm Muck (A9) (LRR C) 4 cm Muck (A11) 2 cm Muck (A11) 3 cm M
Histic Epipedon (A2)
Black Histic (A3)
Hydrogen Sulfide (A4)
Stratified Layers (A5) (LRR C)
□ 1 cm Muck (A9) (LRR D) □ Redox Dark Surface (F6) □ Depleted Below Dark Surface (A11) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ Redox depressions (F8) □ Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Restrictive Layer (if present): Type: □ Depleted Dark Surface (A12) □ Redox depressions (F8) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: □ Depth (inches): □ Hydric Soil Present? Yes No □ Remarks: Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Depleted Below Dark Surface (A11) Depleted Dark Surface (F6) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Sandy Gleyed Matrix (S4) Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Remarks: Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
□ Thick Dark Surface (A12) □ Redox depressions (F8) □ Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Restrictive Layer (if present): Type: □ Depth (inches): □ Hydric Soil Present? Yes No □ Remarks: Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required: check all that apply) Secondary Indicators (2 or more required)
Sandy Muck Mineral (S1)
Restrictive Layer (if present): Type: Depth (inches): Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Wetland hydrology must be present. Hydric Soil Present? Yes No No Secondary Indicators (2 or more required)
Restrictive Layer (if present): Type: Depth (inches): Remarks: Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Type:
Depth (inches):
Remarks: Soils emit a hydrogen sulfide odor when excavated. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required)
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine)
✓ High Water Table (A2) ☐ Biotic Crust (B12) ☐ Sediment Deposits (B2) (Riverine) ✓ Saturation (A3) ☐ Aquatic Invertebrates (B13) ☐ Drift Deposits (B3) Riverine)
Water Marks (B1) (Nonriverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)
□ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3)
Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ✓ FAC-neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
X 8 N O
Wetland Hydrology Present? Yes No
Saturation Present? (includes capillary fringe) Yes No Depth (inches):0
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:
Remarks:

Project/Site: 1-15 Payson Main Street Interchange EIS	City/County: Payson/L	nan .	Sampling Date: 13-Oct-15
Applicant/Owner: Utah Department of Transportation		State: UT	Sampling Point: 20
Investigator(s): Todd Sherman	Section, Township,	Range: S 5 T 95	S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave	e, convex, none): flat	Slope: 1.0 % / 0.
Subregion (LRR): LRR D	Lat.: 437560	Long.: 4434614	Datum: NAD83
Soil Map Unit Name: McBeth silt loam		NWI classifi	cation: Upland
re climatic/hydrologic conditions on the site typical for	this time of year? Yes No	(If no, explain in F	Remarks.)
Are Vegetation . , Soil . , or Hydrology	significantly disturbed? Are	"Normal Circumstances" pr	esent? Yes No
Are Vegetation, Soil, or Hydrology [naturally problematic? (If i	needed, explain any answer	s in Remarks.)
Summary of Findings - Attach site map	•		
Hydrophytic Vegetation Present? Yes No			<u> </u>
Hydric Soil Present? Yes O No •)	Vac O Na 📵	
Wetland Hydrology Present? Yes ○ No ●	within a Wetla	ind? Tes C NO C	
Remarks: Upland area adjacent to SP-19.			
opiana area adjacent to 31 17.			
VEGETATION - Use scientific names of	olants. Dominant Species?		
(0)	Absolute Rel.Strat. Indicat	or Dominance Test works	heet:
	% Cover Cover Status	Number of Dominant Spec	
1 2.		_ That are OBL, FACW, or F	AC: (A)
3.	0	Total Number of Dominan	
4.	0 0.0%	Species Across All Strata:	1(B)
	0 = Total Cover	Percent of dominant Sp	
Sapling/Shrub Stratum (Plot size:)		That Are OBL, FACW, o	or FAC: <u>0.0%</u> (A/B)
1	0 0.0%	Prevalence Index work	sheet:
2	0 0.0%	Total % Cover of	: Multiply by:
3	0	OBL species	0 x 1 = 0
4. 5.	0	FACW species	<u>0</u> x 2 = <u>0</u>
J	0	FAC species	<u>0</u> x 3 = <u>0</u>
(Plot size:	0 = Total Cover	FACU species	<u>0</u> x 4 = <u>0</u>
Herb Stratum (Plot size:)	100 🔽 100 00/ 1101	UPL speci es1	<u>00</u> x 5 = <u>500</u>
1. Agropyron elongatum 2.		Column Totals: <u>1</u>	00 (A) <u>500</u> (B)
2 3		Prevalence Index =	= B/A = 5.000
4.	0 0.0%	 Hydrophytic Vegetation 	
5	0 0.0%	Dominance Test is	
6	0	Prevalence Index	is ≤3.0 ¹
7.	0	Morphological Ada	ptations ¹ (Provide supporting
8. 9.	0	data in Remarks o	r on a separate sheet)
10.	0 0.0%	Problematic Hydro	pphytic Vegetation ¹ (Explain)
11.	0 0.0%	_	
-	100 = Total Cover	1 Indicators of hydric s	soil and wetland hydrology must
Woody Vine Stratum (Plot size:)		be present, unless dist	urbed or problematic.
1	0 0.0%		
2.	0	- Hydrophytic	
	0 = Total Cover	Vegetation Present? Yes	○ No •
% Bare Ground in Herb Stratum: ()	% Cover of Biotic Crust 0	rieseit!	
, o Dai o Orbana ni Herb Juatuill. ()	Jove or blotte ordat ()		
Remarks:			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Texture Remarks
Pore Lining. M=Matrix
cators for Problematic Hydric Soils: ³
1 cm Muck (A9) (LRR C)
2 cm Muck (A10) (LRR B)
Reduced Vertic (F18)
Red Parent Material (TF2)
Other (Explain in Remarks)
licators of hydrophytic vegetation and
etland hydrology must be present.
: Soil Present? Yes O No 💿
Secondary Indicators (2 or more required)
Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) Riverine)
Drainage Patterns (B10)
Dry Season Water Table (C2)
Crayfish Burrows (C8)
Saturation Visible on Aerial Imagery (C9)
Shallow Aquitard (D3)
FAC-neutral Test (D5)
FAC-Heutiai Test (D3)
ology Present? Yes O No 💿
<u>:</u>
<u>: </u>
<u>:</u>
į

Landform (hillslope, terrace, etc.): Valley bottom Lat:: 43752' Soil Map Unit Name: Sunset loam are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No Irbed? Are " natic? (If no ling point lo Is the Sampled within a Wetlar	Long.: 4434693 NWI classification: PEM (If no, explain in Remarks.) Ploor and a company answers in Remarks.) Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Datum: NAD83 NAD83 Datum: NAD83 No O Attain NAD83 No O PEM No O No O Attain Name Name Name Name Name Name Name Name
Landform (hillslope, terrace, etc.): Valley bottom Lat.: 43752' Soil Map Unit Name: Sunset loam re climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No Irbed? Are " natic? (If no ling point lo Is the Sampled within a Wetlar stock pond. Denominant decies? Status 0.0% 0.0% 0.0% 0.0% Detail Cover 0.0%	Long.: 4434693 NWI classification: PEM (If no, explain in Remarks.) Ploor and a company answers in Remarks.) Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Datum: NAD83 NAD83 Datum: NAD83 No O Attain NAD83 No O PEM No O No O Attain Name Name Name Name Name Name Name Name
Subregion (LRR): LRR D Lat.: 43752' coli Map Unit Name: Sunset loam colimatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No Irbed? Are " natic? (If no ling point lo Is the Sampled within a Wetlar stock pond. Deminant secies? Indicato Status 0.0% 0.0% 0.0% 0.0% cotal Cover 0.0%	NWI classification: PEM (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceeded, explain any answers in Remarks.) Cations, transects, important features, etc. Area and? Yes No Ceeded. Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
oil Map Unit Name: Sunset loam e climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No Irbed? Are " natic? (If no ling point lo Is the Sampled within a Wetlar stock pond. Denominant secies? Status 0.0% 0.0% 0.0% 0.0% cotal Cover	NWI classification: PEM (If no, explain in Remarks.) 'Normal Circumstances" present? Yes No leeded, explain any answers in Remarks.) (Cations, transects, important features, etc.) I Area Ind? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
e climatic/hydrologic conditions on the site typical for this time of year? In e Vegetation	Is the Sampled within a Wetlar stock pond. Description of the control of the con	(If no, explain in Remarks.) 'Normal Circumstances" present? Yes No eeded, explain any answers in Remarks.) Ocations, transects, important features, etc. Area Ind? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
re Vegetation	Is the Sampled within a Wetlar stock pond. Description of the control of the con	Promise Circumstances" present? Yes No ceeded, explain any answers in Remarks.) Pocations, transects, important features, etc. Area I Area Or Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Absolute Restratum (Plot size:) Sapling/Shrub Stratum (Plot size:) Sapling/Shrub Stratum (Plot size:) Leteb Stratum (Plot size:	Is the Sampled within a Wetlar stock pond.	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: New Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Summary of Findings - Attach site map showing samp Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No Hydrology Present? Yes No No No Hydrology Present? Yes No No No No Hydrology Present? Yes No	Is the Sampled within a Wetlar stock pond. Description of the color o	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Summary of Findings - Attach site map showing samp Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No Hydrology Present? Yes No No No Hydrology Present? Yes No No No No Hydrology Present? Yes No	Is the Sampled within a Wetlar stock pond. Description of the color o	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No No Hydric Soil Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No	Is the Sampled within a Wetlar stock pond. Description of the certain stock pond. De	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Hydric Soil Present? Wetland Hydrology Present? Palustrine emergent wetland fringe around a small open water WEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) 2.	within a Wetlar stock pond. print the secies? el.Strat. 0.0% 0.0% 0.0% 0.0% cotal Cover 0.0%	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Wetland Hydrology Present? Yes ● No ○ Remarks: Palustrine emergent wetland fringe around a small open water VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolute % Cover or compared to a small open water 1 0	ominant lecies? el.Strat. 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Palustrine emergent wetland fringe around a small open water	ominant secies? el.Strat. 0.0% 0.0% 0.0% 0.0% otal Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
VEGETATION - Use scientific names of plants. Signature Stratum (Plot size:) Absolute Response Resp	ominant secies? el.Strat. 0.0% 0.0% 0.0% 0.0% otal Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Tree Stratum (Plot size:) Absolute Response Respo	Indicato Indicato Status	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Tree Stratum (Plot size:)	Indicato Indicato Status	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Tree Stratum (Plot size:) Absolute % Cover Rec Cover 1. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 5. 0 □ Herb Stratum (Plot size:) 1. Juncus balticus 30 ✓ 2. Carex nebrascensis 35 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	Indicato Status	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	That are OBL, FACW, or FAC: 4 (A) Total Number of Dominant Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
2. 0 □ 3. 0 □ 4. 0 □ 1. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 5. 0 □ Herb Stratum (Plot size:) 1. Juncus balticus 30 ✓ 2. Carex nebrascensis 35 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	0.0% 0.0% 0.0% btal Cover	Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
3.	0.0% 0.0% otal Cover	Species Across All Strata: 4 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
4.	0.0% otal Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:)	0.0%	That Are OBL, FACW, or FAC: 100.0% (A/B)
Sapling/Shrub Stratum (Plot size:	0.0%	That Are OBL, FACW, or FAC: 100.0% (A/B)
1.		Dravalance Index worksheet
3.	0.0%	Prevalence Index worksheet:
4. 0 □ 5. 0 □ Herb Stratum (Plot size:) 1. Juncus balticus 30 ✓ 2. Carex nebrascensis 25 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	0,0	Total % Cover of: Multiply by:
5. 0 □ Herb Stratum (Plot size:) 1. Juncus balticus 30 ✓ 2. Carex nebrascensis 25 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	0.0%	OBL species 70 x 1 = 70
Description	0.0%	FACW species 30 x 2 = 60
Herb Stratum (Plot size:) 1. Juncus balticus 30 ✓ 2. Carex nebrascensis 25 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	0.0%	FAC species0 x 3 =0
1. Juncus balticus 30 ✓ 2. Carex nebrascensis 25 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	otal Cover	FACU species $0 \times 4 = 0$
2. Carex nebrascensis 25 ✓ 3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □		UPL species $0 \times 5 = 0$
3. Eleocharis palustris 25 ✓ 4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	30.0% FACW	Column Totals:100 (A)130 (B)
4. Mentha spicata 20 ✓ 5. 0 □ 6. 0 □ 7. 0 □	25.0% OBL	Prevalence Index = B/A = 1.300
5.	25.0% OBL OBL	-
6. 0 0 7.	0.0%	Hydrophytic Vegetation Indicators: Dominance Test is > 50%
7. 0	0.0%	Dominance Test is > 50% Prevalence Index is ≤3.0 1
	0.0%	
8. 0	0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9. 0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10.	0.0%	_
	0.0%	_ 1, , , , , , , , , , , , , , , , , , ,
		¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)	otal Cover	
1	otal Cover	
2	0.0%	
= T		Hydrophytic Vegetation
% Bare Ground in Herb Stratum: 0 % Cover of Biotic Cro	0.0%	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descrip	otion: (Describe to	the depth nee	eded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth _	Matrix			lox Featu				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture	Remarks
0-20	10YR 2/1	100%					Loam	
				-				
7.	•					ins ² Loca	tion: PL=Pore Lining. M=Mat	rix
	dicators: (Applicat	ole to all LRRs)		Indicators for Problem	natic Hydric Soils: ³
Histosol (A1	•		Sandy Redox (1 cm Muck (A9) (LRI	R C)
Histic Epipe Black Histic	, ,		Stripped Matri				2 cm Muck (A10) (LF	RRB)
✓ Hydrogen S	, ,		Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		2)		Red Parent Material	• •
l —	(A9) (LRR D)		Depleted Matr	` ,			Other (Explain in Re	marks)
Depleted Be	elow Dark Surface (A1	1)	Redox Dark Su					
☐ Thick Dark	Surface (A12)		Depleted Dark Redox depress		F/)			
Sandy Muck	Mineral (S1)		Vernal Pools (³ Indicators of hydrophy	tic vegetation and
Sandy Gleye	ed Matrix (S4)		vernal i oois (i	7)			wetland hydrology m	ust be present.
Restrictive Lay	er (if present):							
Type:								
Depth (inche	es):		_				Hydric Soil Present?	Yes ● No ○
Remarks:								
Soils emit a hyd	drogen sulfide odor	when excava	nted.					
_	-							
Hydrology								
Wetland Hydro	ology Indicators:							
Primary Indica	ators (minimum of	one required;	check all that app	oly)			Secondary Indica	ators (2 or more required)_
Surface Wat	ter (A1)		Salt Crust (B	11)			Water Marks (E	31) (Riverine)
✓ High Water	Table (A2)		☐ Biotic Crust	(B12)			Sediment Depo	sits (B2) (Riverine)
Saturation ((A3)		Aquatic Inve	rtebrates	(B13)		☐ Drift Deposits	(B3) Riverine)
Water Mark	s (B1) (Nonriverine)		✓ Hydrogen Su				Drainage Patte	rns (B10)
	eposits (B2) (Nonrive		Oxidized Rhi	zospheres	along Livin	g Roots (C3	B) Dry Season Wa	ter Table (C2)
	ts (B3) (Noneriverine)		Presence of				Crayfish Burrov	
Surface Soil			Recent Iron			Soils (C6)		ole on Aerial Imagery (C9)
	Visible on Aerial Imag	jery (B7)	Thin Muck S				Shallow Aquita	
Water-Stain	ed Leaves (B9)		U Other (Expla	in in Rem	arks)		FAC-neutral Te	st (D5)
Field Observat		O @						
Surface Water Pi			Depth (inc	hes):		_		
Water Table Pres	sent? Yes	● No ○	Depth (inc	hes):	4			Yes ● No ○
Saturation Prese	YAC	● No ○	Depth (inc	hes):	0	Wetla	and Hydrology Present?	Yes ● No ○
(includes capillar Describe Reco	rded Data (stream		•		/ious insna	ctions) if	available:	
20301100 11000	. aca bata (stredili	gaago, mont	S. Won, donar pric	pi o (5.15113 <i>)</i> , 11	a randono.	
Remarks:								
	drogen sulfide odo	r when excav	ated, and were sa	turated a	at the surfa	ice with a	shallow water table.	
	<u> </u>							

roject/Site: 1-15 Payson Main Street Interchange EIS	City/County: Payson/L	tah Sampling D	Date: 13-Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT Samplin	g Point: 22
nvestigator(s): Todd Sherman	Section, Township,	Range: S 5 T 9S R	2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave	, convex, none): flat	Slope:1.0 % /_0
ubregion (LRR): LRR D	Lat .: 437518	Long.: 4434689	Datum: NAD83
oil Map Unit Name: Sunset loam		NWI classification: Up	 bland
e climatic/hydrologic conditions on the site typical	or this time of year? Yes No	(If no, explain in Remarks.)	
re Vegetation, Soil, or Hydrology	significantly disturbed? Are	'Normal Circumstances" present?	Yes ● No ○
re Vegetation , Soil , or Hydrology	naturally problematic? (If r	eeded, explain any answers in Rema	rks.)
Summary of Findings - Attach site m	ap showing sampling point lo	cations, transects, import	ant features, etc.
Hydrophytic Vegetation Present? Yes No	•	•	•
Hydric Soil Present? Yes O No		Vac O Na 📵	
Wetland Hydrology Present? Yes O No	within a Wetla	nd? Tes UNU @	
Remarks: Upland area adjacent to SP-21.			
opiana area adjacem to 31 21.			
VEGETATION - Use scientific names of	f plants. Dominant Species?		
- (Dietrie)	Absolute Rel.Strat. Indicat	Dominance Test worksheet:	
Tree Stratum (Plot size:)	<u>% Cover Cover Status</u> 0 □ 0.0%	Number of Dominant Species	0 (4)
1 2.		That are OBL, FACW, or FAC:	(A)
3.	0	Total Number of Dominant Species Across All Strata:	1 (B)
4.	0 0.0%	Species Across Air Strata.	(b)
Sapling/Shrub Stratum (Plot size:	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC:	0.0% (A/B)
1	0 0.0%	Prevalence Index worksheet:	
2	0	Total % Cover of: Mul	tiply by:
3	0 0.0%	OBL species x	1 = 0
4. 5.	0	FACW species 0 x :	2 =
	0	FAC species 0 x:	B = <u>0</u>
Herb Stratum (Plot size:)	0 = Total Cover	FACU species 100 x	
1. Festuca pratensis	100 🗹 100.0% FACU	UPL species $\frac{0}{x}$	5 =
2.		Column Totals: 100 (A)	
3.	0	Prevalence Index = B/A =	4.000
4	0	Hydrophytic Vegetation Indicator	s:
5	0	Dominance Test is > 50%	
6. 7.	0 0.0%	Prevalence Index is ≤3.0 ¹	
8.	0 0.0%	Morphological Adaptations ¹ data in Remarks or on a sepa	(Provide supporting
9.	0 0.0%	•	
10.	0 0.0%	Problematic Hydrophytic Veg	getation (Explain)
11.	0 0.0%		
	100 = Total Cover	1 Indicators of hydric soil and we be present, unless disturbed or p	
Woodv Vine Stratum (Plot size:)		, ,, , , , , , , , , , , , , , , , , ,	-
1			
2	0 0.0%	Hydrophytic Vegetation	.
	0 = Total Cover	Present? Yes No)
Of Dana Cassard in Hank Charles	% Cover of Biotic Crust ()		
% Bare Ground in Herb Stratum: 0	70 00101 01 210110 01 401 <u>0</u>		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Texture Remarks
Pore Lining. M=Matrix
cators for Problematic Hydric Soils: ³
1 cm Muck (A9) (LRR C)
2 cm Muck (A10) (LRR B)
Reduced Vertic (F18)
Red Parent Material (TF2)
Other (Explain in Remarks)
licators of hydrophytic vegetation and
etland hydrology must be present.
: Soil Present? Yes O No 💿
Secondary Indicators (2 or more required)
Water Marks (B1) (Riverine)
Sediment Deposits (B2) (Riverine)
Drift Deposits (B3) Riverine)
Drainage Patterns (B10)
Dry Season Water Table (C2)
Crayfish Burrows (C8)
Saturation Visible on Aerial Imagery (C9)
Shallow Aquitard (D3)
FAC-neutral Test (D5)
FAC-Heutiai Test (D3)
ology Present? Yes O No 💿
<u>:</u>
<u>: </u>
<u>:</u>
į

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah	Sampling Date: 13-Oct-15
pplicant/Owner: Utah Department of Transportation	State: UT	Sampling Point: 23
nvestigator(s): Todd Sherman	Section, Township, Range: S 4 T	9S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): conca	ve Slope: 1.0 % / 0.0
ubregion (LRR): LRR D	Lat.: 437840 Long.: 4434527	Datum: NAD83
oil Map Unit Name: McBeth silt loam		ssification: PEM
e climatic/hydrologic conditions on the site typical for this		
	gnificantly disturbed? Are "Normal Circumstances"	
		F. 555
re Vegetation	aturally problematic? (If needed, explain any ans	
Hydrophytic Vegetation Present? Yes No		
Hydric Soil Present? Yes • No •	Is the Sampled Area	
Wetland Hydrology Present? Yes ● No ○	within a Wetland? Yes No	,
	h an the cost side of 1.15	
Remarks: Palustrine emergent wetland in the borrow di	n on the east side of 1-15.	
VEGETATION - Use scientific names of plan		
	Species? Absolute Rel.Strat. Indicator Dominance Test wo	orksheet:
Tree Stratum (Plot size:)	% Cover Cover Status Number of Dominant	
1,	0 0.0% That are OBL, FACW,	or FAC:3(A)
2. 3.	0 0.0% Total Number of Dom	
4.	0 0.0% Species Across All Stra	ata: <u>3</u> (B)
	Percent of dominan	t Species
Sapling/Shrub Stratum (Plot size:)	= Total Cover That Are OBL, FAC\	
1.	0 0.0% Prevalence Index w	orksheet:
2.	0 0.0% Total % Cove	
3.	0 0.0% OBL species	35 x 1 = 35
4.	FACW species	65 x 2 = 130
5.	FAC speciles	0 x 3 =0
	0 = Total Cover FACU speci es	<u> </u>
Herb Stratum (Plot size:)	UPL species	0 x 5 = 0
1. Polypogon monspeliensis	35	
2. Carex rostrata	35 <u>V</u> 35.0% OBL	
Phalaris arundinacea Agrostis stolonifera	10 10 00/ 540/	
5.	U 10.0% FACW Hydrophytic Vegeta 0 0.0% Dominance Tes	
6.	0 0.0% Prevalence Inc	
7.	n noc	
8.		Adaptations ¹ (Provide supporting s or on a separate sheet)
9.	0	/drophytic Vegetation ¹ (Explain)
10. 11.	0 0.0%	, and produce the contraction of
11.	0 0.0%	ric soil and wetland hydrology must
		ric soil and wetland nydrology must disturbed or problematic.
Woodv Vine Stratum (Plot size:)		
1,	0 0.0%	
2	Hydrophytic Vegetation	
	0 = Total Cover Present? Ye	s • No O
	over of Biotic Crust n	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth nee	ded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth Matrix		lox Featu				
(inches) Color (moist) %	Color (moist)	<u>%</u>	Tvpe 1	Loc2	Texture	Remarks
0-20 10YR 2/2 95%	5YR 4/6	5%	C	M	Loam	
1 Type: C=Concentration. D=Depletion. RM=Reduced				ns ² Loca	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Applicable to all LRRs					Indicators for Problematic	: Hydric Soils: ³
Histosol (A1)	Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3) Hydrogen Sulfide (A4)	Loamy Mucky				Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)	Loamy Gleyed		2)		Red Parent Material (TF2))
1 cm Muck (A9) (LRR D)	Depleted Matri				Other (Explain in Remark	s)
Depleted Below Dark Surface (A11)	Redox Dark Su					
Thick Dark Surface (A12)	Depleted Dark		7)			
Sandy Muck Mineral (S1)	Redox depress				³ Indicators of hydrophytic ve	egetation and
Sandy Gleyed Matrix (S4)	Vernal Pools (I	F9)			wetland hydrology must b	
Restrictive Layer (if present):						
Type:						
Depth (inches):					Hydric Soil Present? Yes	s • No O
Remarks:						
Soils meet the criteria for redox dark surface.						
Hydrology						
Wetland Hydrology Indicators:						
	about all that any	SIA)			Cocondon, Indicators	(2 or more required)
Primary Indicators (minimum of one required; Surface Water (A1)	Salt Crust (B					(2 or more required)
High Water Table (A2)	Biotic Crust	•			Sediment Deposits	·
Saturation (A3)	Aquatic Inve		(B13)		Drift Deposits (B3)	
Water Marks (B1) (Nonriverine)	Hydrogen Su				Drainage Patterns (,
Sediment Deposits (B2) (Nonriverine)	✓ Oxidized Rhi			Roots (C3		·
Drift deposits (B3) (Noneriverine)	Presence of	•	•	(Crayfish Burrows (C	, ,
Surface Soil Cracks (B6)	Recent Iron			oils (C6)		n Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck S			(,	Shallow Aquitard (D	3 , , ,
Water-Stained Leaves (B9)	Other (Expla				✓ FAC-neutral Test (D	
Field Observations:					<u> </u>	
Surface Water Present? Yes No •	Depth (inc	hes):				
Water Table Present? Yes • No			Λ			
	Depth (inc	nes):	4	Wetla	and Hydrology Present? Y	es No
(includes capillary fringe) Yes No	Depth (inc	hes):	0			
_Describe Recorded Data (stream gauge, monitor	or well, aerial pho	otos, prev	ious inspec	tions), if	available:	
Remarks:						
I .						
Soils exhibit oxidized rhizospheres.						

applicant/Owner: Utah Department of T				, ,	Payson/Utal		Sairipi	ing Date: <u>13-0</u>	JCT-15
	ransportation	1				State: UT	Sam	pling Point:	24
nvestigator(s): Todd Sherman				Section, To	wnship, Ra	ange: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.): V	alley bottor	n		Local relief	(concave, c	convex, none): flat	t -	Slope:	1.0 % / 0.
ubregion (LRR): LRR D			Lat .: 43	7845		Long.: 4434525		 Datur	n: NAD83
oil Map Unit Name: McBeth silt loam						NWI	classification	: Upland	•
e climatic/hydrologic conditions on the	he site typi	cal for this tin	ne of year	? Yes	s ● No ○		ain in Remar		
are Vegetation ☐ , Soil ☐ ,	or Hydrolo	gy 🗌 sig	nificantly	disturbed?	Are "N	ormal Circumstand	ces" present	yes ●	No \bigcirc
-	or Hydrolo		turally pro	blematic?		eded, explain any a	•		
Summary of Findings - Att									ntures, etc.
Hydrophytic Vegetation Present?	Yes O	No 💿		ls the	Sampled A	roo			
Hydric Soil Present?	Yes \bigcirc	No 💿			Sampled A	Vac O Na			
Wetland Hydrology Present?	Yes \bigcirc	No 💿		within	a Wetland	l? res ∪ No	•		
Remarks: Upland area adjacent to									
opiana area adjacent to	7 31 -23.								
VEGETATION - Use scient	ific name	s of plants		Dominant					
			Absolute	— Species? Rel.Strat.	Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)		% Cover	Cover	Status	Number of Domina	nt Species		
1				0.0%		That are OBL, FAC	W, or FAC:	0	(A)
2			0	0.0%		Total Number of D	ominant		
3. 4.				0.0%		Species Across All	Strata:	2	(B)
4.			0	0.0%		Percent of domin	nant Snocios		
Sapling/Shrub Stratum (Plot size: _)	0	= Total Cove	er	That Are OBL, FA			6 (A/B)
1.			0	0.0%		Prevalence Index	worksheet:		
2.			0	0.0%		Total % Co		Multiply by:	
3.			0	0.0%		OBL species	10		10
4.			0	0.0%		FACW species	10		20
5.			0	0.0%		FAC species	0		0
			0	= Total Cove	er	FACU species	80		320
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Trifolium fragiferum			40	40.0%	FACU	Column Totals:	100		350 (B)
2. Festuca pratensis			30	30.0%	FACU				
3. Taraxacum officinale			10	10.0%	FACU	Prevalence I	ndex = B/A	= 3.50	0_
4. Carex nebrascensis				10.0%	OBL	Hydrophytic Veg	etation Indic	ators:	
5. Juncus balticus6.				10.0%	FACW		Test is > 50		
7.			0	0.0%	-		Index is ≤3.		
8.			0	0.0%		Morphologic	cal Adaptatio	ons ¹ (Provide separate shee	supporting
9.			0	0.0%					•
10.			0	0.0%		Problematio	Hydrophyti	c Vegetation ¹	(Explain)
11.			0	0.0%					
			100	= Total Cove	er	1 Indicators of h			
Woody Vine Stratum (Plot size:)				be present, unie	ss distuibed	or probleman	<u>. </u>
1			0	0.0%					
2.			0	0.0%		Hydrophytic			
			0	= Total Cove	or.	Vegetation	Yes O	o	
				- Total Cove	-1	Present?	res U	U	
% Bare Ground in Herb Stratum:	0	% Cov	er of Bioti		21	Present?	tes 🔾 in	0 🕓	
% Bare Ground in Herb Stratum:	0	% Cov				Present?	res O N		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2	100%					Loam	
				-			-	
				-				
Typo: C-Con	contration D_Donlation		d Matrix, CS_Covere	d or Coate	d Sand Crair	ns 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					is -Lucat	-	
Ť		ie to ali ERR						oblematic Hydric Soils:3
J Histosol (/J Histic Epip	•		Sandy Redox (1 cm Muck (A9	
Black Hist			Stripped Matrix		1)		2 cm Muck (A1	, , ,
=	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	, ,
	_ayers (A5) (LRR C)		Loamy Gleyed		:)		Red Parent Mat	, ,
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		- /)			
Sandy Mu	ck Mineral (S1)		Redox depress				3 Indicators of hydronical properties of the second contract of t	rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	gy must be present.
estrictive La	yer (if present):							
	J. (1)							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	? Yes ○ No •
Depth (incl	nes): of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No O
Depth (incl demarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: Dindicators Dindicators Ydrology Vetland Hyd	of hydric soil.	one required	check all that app	oly)			,	? Yes No •
Depth (included like the property of the prope	of hydric soil. / rology Indicators: cators (minimum of c	one required	: check all that app				_Secondary I	
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of c	one required		11)			Secondary I	ndicators (2 or more required)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12)	(B13)		Secondary I	ndicators (2 or more required) irks (B1) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12) rtebrates (Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indi Surface W High Wate Saturation Water Mai	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (includer land land) Depth (includer l	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Wate Saturation Water Mai Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) (ks (B1) (Nonriverine) Deposits (B2) (Nonriver	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I	· (C1) along Living ron (C4)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation Water Man Sediment Drift depo Surface Screace Screace	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso Crayfish E Saturatio	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (incl demarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface So Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imag	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine) ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Remarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observa	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit (Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incle temarks: poindicators of indicators of indica	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Image ined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturation Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Dydrology Vetland Hyd Primary India Surface W High Water Saturation Water Sta Inundation Water-Sta Vield Observation Water Table Presented Presented Presented Staturation Presented Semarks Staturation Presented Presented Presented Presented Presented Presented Presented P	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Sydrology Vetland Hyd Primary India Surface Water Man Drift depo Surface Sc Inundation Water-Sta Sield Observator Water Table Prosaturation Presincludes capill	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators lydrology Vetland Hyd Primary India Surface W High Water Saturation Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta Field Observation Surface Water Vater Table Prosaturation Presincludes capill Describe Reco	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation Water Table Preaturation Presencludes capill Describe Rec	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta Veter Table Prestricted Water Vater Table Prestricted Seconds ield Observation Water-Sta Veter Table Prestricted Seconds Describe Recommarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No qauge, monit	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)

	bottom e typical for this vdrology vdrology site map sl No No No No No	Lat.: 43 s time of year? significantly d	Yes • I listurbed? All	Long.: 4434495 NWI cl (If no, explair e "Normal Circumstance f needed, explain any ar locations, transe	T_9S lassification: _L in in Remarks.; es" present? esmswers in Remetects, impor	Datum: Datum:	No O
Landform (hillslope, terrace, etc.): Valley be Subregion (LRR): LRR D Soil Map Unit Name: Logan silty clay loam re climatic/hydrologic conditions on the site Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes	e typical for this odrology site map sl No No No No 6.	Lat.: 43 s time of year? significantly d	Yes Is the Samp	Long.: 4434495 NWI cl (If no, explair e "Normal Circumstance f needed, explain any ar locations, transe	in in Remarks, per present? es present? es nswers in Remets, impor	Slope: Datum:	NAD83
Subregion (LRR): LRR D Soil Map Unit Name: Logan silty clay loam re climatic/hydrologic conditions on the site Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present?	e typical for this odrology site map sl No No No No 6.	Lat.: 43 s time of year? significantly d	Yes Identification of the Samp	Long.: 4434495 NWI cl (If no, explain e "Normal Circumstance f needed, explain any ar locations, transe	in in Remarks.; es" present? eswers in Rem ects, impor	Datum: Datum:	NAD83
Soil Map Unit Name: Logan silty clay loam re climatic/hydrologic conditions on the site Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	vdrology	s time of year? significantly d	Yes Isturbed? An Albiematic? (Impling point	NWI cl	in in Remarks.; es" present? eswers in Rem ects, impor	yes •	No O
re climatic/hydrologic conditions on the site Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes	vdrology	significantly d	isturbed? An olematic? (I mpling point ls the Samp	(If no, explain e "Normal Circumstance for needed, explain any arborations, transed ed Area	in in Remarks.; es" present? eswers in Rem ects, impor	Yes •	
re climatic/hydrologic conditions on the site Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Wetland Hydrology Present? Yes	vdrology	significantly d	isturbed? An olematic? (I mpling point ls the Samp	(If no, explain e "Normal Circumstance for needed, explain any arborations, transed ed Area	in in Remarks.; es" present? eswers in Rem ects, impor	Yes •	
Are Vegetation , Soil , or Hy Are Vegetation , Soil , or Hy Summary of Findings - Attach : Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	vdrology	significantly d	isturbed? An olematic? (I mpling point ls the Samp	f needed, explain any ar locations, transe	nswers in Rem	arks.)	
Summary of Findings - Attach s Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	site map sl		npling point Is the Samp	f needed, explain any ar locations, transe	nswers in Rem		ures, etc.
Summary of Findings - Attach s Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	site map sl		mpling point	locations, transe	ects, impor		ures, etc.
Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present? Yes	No		Is the Samp	ed Area			
Wetland Hydrology Present? Yes	○ No			Vac O Na (
, ,,	6.		within a We	land? res \bigcirc No			
Remarks: Upland area adjacent to SP-2					9		
opiana area adjacent to 31 -21							
VEGETATION - Use scientific n	ames of pla	nts.	Dominant				
		Absolute	Species? ——— Rel.Strat. Indic	ator Dominance Test v	worksheet:		
<u>Tree Stratum</u> (Plot size:)		% Cover	Cover Statu	Number of Dominar	nt Species		
1		_	0.0%	That are OBL, FACW	V, or FAC:	0	(A)
2			0.0%	Total Number of Do	minant		
34.			0.0%	Species Across All S	trata:	1_	_ (B)
		0	0.0%	Percent of domina	ant Species		
_Sapling/Shrub Stratum (Plot size:)	0	= Total Cover	That Are OBL, FA		0.0%	(A/B)
1.		0	0.0%	Prevalence Index	worksheet:		
2.			0.0%	Total % Cov		ultiply by:	
3.		0	0.0%	OBL species		_	
4.		0	0.0%	FACW species	x		
5.		0	0.0%	FAC species	10 x	3 = 30)
		0	= Total Cover	FACU species	90 x	4 = 36	0
Herb Stratum (Plot size:))			UPL species	x	5 =0	
1. Festuca pratensis			✓ 70.0% FACU	Column Totals:	100 (/	A)39	0 (B)
2. Poa pratensis			10.0% FAC				
Trifolium repens Hordeum murinum			10.0% FACU	Prevalence Ir		3.900	
5.		0	0.0%	Hydrophytic Vege		ors:	
6.			0.0%	_	est is > 50% ndex is ≤3.0 ¹		
7.		0	0.0%			1	
8.		0	0.0%		al Adaptations arks or on a se		
9.		0	0.0%		Hydrophytic Ve		
10. 11.		0	0.0%	_			
· · · · · · · · · · · · · · · · · · ·		0	0.0%	_ 1			
		100	= Total Cover	Indicators of hy be present, unles			
Woodv Vine Stratum (Plot size:)			-		<u>-</u>	
1			0.0%	_			
2		0	0.0%	Hydrophytic Vegetation			
		0	= Total Cover	Present?	res O No 🤇	•)	
% Bare Ground in Herb Stratum: 0	%	Cover of Biotic	Crust_0				
Remarks:	<u></u>					·	
The area does not meet the vegetation crit	teria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/4	100%					Loam	
				-				
				-				
Euros C. Con	contration D. Donlation		d Matrix CS Covers	d or Coata	d Cand Crain	21 ocat		atriv
J.	ndicators: (Applicab					S -LUCAT		
Histosol (ile to all LKK	Sandy Redox (ematic Hydric Soils: ³
	pedon (A2)		Stripped Matrix				1 cm Muck (A9) (L	•
Black Hist			Loamy Mucky i		1)		2 cm Muck (A10)	,
7	Sulfide (A4)		_				Reduced Vertic (F	•
	Layers (A5) (LRR C)		Loamy Gleyed Depleted Matri)		Red Parent Materia	• •
_	k (A9) (LRR D)		Redox Dark Su				Other (Explain in F	Remarks)
Depleted	Below Dark Surface (A1	1)			-7\			
_	k Surface (A12)		Depleted Dark Redox depress		- /)			
Sandy Mu	ck Mineral (S1)		•				3 Indicators of hydropl	
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrology	must be present.
estrictive L	ayer (if present):							
Type:	ayo. (p. ccc).							
Type: Depth (inc							Hydric Soil Present?	Yes ○ No ●
Depth (inc	nes):of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (inclemarks:	nes): of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (inclemarks: o indicators	nes): of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (included per	nes): of hydric soil.						Hydric Soil Present?	Yes O No O
Depth (includer property) Depth (includer pr	of hydric soil.	one required;	check all that app	oly)				Yes No •
Depth (inclemarks: indicators	of hydric soil. y rology Indicators: cators (minimum of o	one required;	: check all that app				_Secondary Ind	
Depth (inclemants: indicators ydrology etland Hyd rimary Indi Surface W	of hydric soil. y rology Indicators: cators (minimum of o	one required;		11)			Secondary Ind	cators (2 or more required)
Depth (inclease with the content of	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2)	one required;	Salt Crust (B	11) (B12)	(B13)		Secondary Ind Water Marks Sediment De	icators (2 or more required) (B1) (Riverine)
Depth (inclemants: Dindicators	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2)	one required;	Salt Crust (B	11) (B12) rtebrates (Secondary Ind Water Marks Sediment De	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (inclements: Dindicators ydrology fetland Hydrimary Indi Surface W High Wate Saturatior Water Ma	of hydric soil. rology Indicators: cators (minimum of clater (A1) er Table (A2) n (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary Ind Sediment De Drift Deposit Drainage Pal	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (incleanance) emarks: indicators ydrology fetland Hyd rimary Indi Surface W High Wate Saturatior Water Ma Sediment	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Ind Sediment De Drift Deposit Drainage Pal	icators (2 or more required) (B1) (Riverine) sposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)
Depth (inclease and inclease an	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II	(C1) along Living ron (C4)		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V	icators (2 or more required) (B1) (Riverine) sposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)
Depth (includer includer inclu	rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9)
pepth (incleanance) population of the percentage of the percentag	of hydric soil. rology Indicators: cators (minimum of cator (A1) er Table (A2) a (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation V	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer includer inclu	rology Indicators: cators (minimum of otater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) bil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck So	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer line) Permarks: Dindicators Pydrology Petland Hyde Primary Indi Surface W High Water Ma Sediment Drift depc Surface Sc Inundatio Water-Sta ield Observ	rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations:	rine) ery (B7)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer in the content of th	rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) cists (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includermarks: principle indicators of indicators o	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) Deposits (B2) (Nonriverine) Deposits (B3) (Noneriverine) Dil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So	oils (C6)	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incl Remarks: o indicators ydrology Vetland Hyd Primary Indi Surface W High Wate Saturatior Water Ma Sediment Drift depc Surface Se Inundatio	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	oils (C6)	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (inclease Marks:	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (inci Remarks: D indicators ydrology Vetland Hyd Primary Indi Surface W High Water Saturatior Water Ma Sediment Drift depc Surface Sc Inundatio Water-Sta ield Observ urface Water Vater Table Praturation Preincludes capil	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incidemarks: Dindicators of indicators of indicator	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incleaded permarks: Depth (incleaded perm	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No O No O No O qauge, monit	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)

Project/Site: I-15 Payson Main Street	Interchange EIS		City/County: Payson/Uta	h	Sampling	Date: <u>11-Ma</u>	ay-16
Applicant/Owner: Utah Department o	f Transportation		-	State: UT	Sampl	ing Point:	26
Investigator(s): Todd Sherman			Section, Township, R	ange: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Swale		Local relief (concave,	convex, none): CO	ncave	Slope:	
Subregion (LRR): LRR D		 Lat.: 4;		Long.: 4434498		Datum:	: NAD83
	. In one		50002				
Soil Map Unit Name: <u>Logan silty clav</u> re climatic/hydrologic conditions or			? Yes ● No ○		classification:		
	J.			(ain in Remarks		No O
	, or Hydrology			lormal Circumstan	•		140 🔾
Are Vegetation	, or Hydrology ttach site ma		•	eded, explain any a			tures, etc.
Hydrophytic Vegetation Present?	Yes No						
Hydric Soil Present?	Yes No		Is the Sampled A				
Wetland Hydrology Present?	Yes • No		within a Wetland	_{d?} Yes 🖲 No	, ()		
Remarks: Palustrine emergent	wetland in a graze	d pasture.					
VEGETATION - Use scien	atific names of	Folants	Dominant				
VEGETATION - Use scien	Titlic Hallies Of	piants.	Dominant —Species? ————	1			
Tree Stratum (Plot size:)	Absolute % Cover		Dominance Test			
1.		0	0.0%	Number of Domina That are OBL, FAC		1	(A)
2			0.0%	That are OBE, The	, or 1710.		_ (,,
3.			0.0%	Total Number of D Species Across All		1	(B)
4.			0.0%	Species Acioss Aii	Strata.		_ (b)
Sapling/Shrub Stratum (Plot size	:)	0	= Total Cover	Percent of domi That Are OBL, F		100.0%	6 (A/B)
1.		0	0.0%	Prevalence Inde	x worksheet:		
2		0	0.0%	Total % C	over of: N	fultiply by:	
3.		0	0.0%	OBL species			5
4.		0	0.0%	FACW species	×	. 2 =)
5			0.0%	FAC species	x	. 3 =)
		0	= Total Cover	FACU species	0x	. 4 =)
Herb Stratum (Plot size:)			UPL species	0x	5 =)
1. Typha latifolia			✓ 58.8% OBL	Column Totals		(A) 8	5 (B)
2. Eleocharis palustris			11.8% OBL				
3. Schoenoplectus pungens			11.8% OBL		Index = B/A =	_1.000	_
Nasturtium officinale Carex nebrascensis			11.8% OBL	Hydrophytic Veg			
6.			5.9% OBL 0.0%	✓ Dominance			
7.			0.0%	_	Index is ≤3.0		
8.			0.0%		ical Adaptations narks or on a se		
9.			0.0%				
10.			0.0%	Problemation	c Hydrophytic V	regetation (Explain)
11.		0	0.0%				
		85	= Total Cover	1 Indicators of I be present, unle			
Woodv Vine Stratum (Plot size: _)						
1			0.0%				
2			0.0%	Hydrophytic Vegetation			
		0	= Total Cover	Present?	Yes No	\bigcirc	
% Bare Ground in Herb Stratum	n:_ <u>15</u>	% Cover of Bioti	c Crust 0				
Remarks:							
100% obligate vegetation.							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	ription: (De	scribe to	the depth n	eeded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth	Color (Matrix			lox Featu		Las?	Tourtum	Domonko
(inches) 0-5	10YR	moist) 2/1	<u>%</u> 100%	Color (moist)	<u>%</u>	_Tvpe ¹	Loc ²	Texture	Remarks
5-20	10YR	3/1	100%					Loam	
3-20								Loam	
								_	
1 Type: C=Cor	centration D	 =Depletion	n RM=Reduc	ed Matrix, CS=Covere	d or Coate	ed Sand Gra	ins 2l oca	tion: PL=Pore Lining. M=Ma	
, , , , , , , , , , , , , , , , , , ,				Rs, unless otherwis			2004	Indicators for Proble	
Histosol (Ç		Sandy Redox (,		1 cm Muck (A9) (LF	
	pedon (A2)			Stripped Matrix				2 cm Muck (A10) (L	•
Black Hist				Loamy Mucky		1)		Reduced Vertic (F1)	•
	Sulfide (A4)			Loamy Gleyed				Red Parent Materia	•
_	Layers (A5) (Depleted Matri				Other (Explain in R	• •
l —	k (A9) (LRR [Redox Dark Su	urface (F6))			•
l — ·	Below Dark S	•	1)	Depleted Dark	Surface (F7)			
l —	k Surface (A1	•		Redox depress	sions (F8)			³ Indicators of hydroph	utio vegetation and
l	ck Mineral (S eyed Matrix (S	•		Vernal Pools (I	F9)			wetland hydrology n	nust be present.
	•								
Restrictive L	ayer (II pres	sent):							
Type: Depth (inc	hos):							Hydric Soil Present?	Yes ● No ○
Remarks:	1103)								-
		le: da adam							
Soils emit a h	iyarogen su	ilide odor	wnen exca	/ated.					
Hydrolog	y								
Wetland Hyd	rology Indi	cators:							
Primary Indi	cators (min	imum of	one required	l; check all that app	olv)			Secondary India	cators (2 or more required)
✓ Surface W				Salt Crust (B					(B1) (Riverine)
✓ High Wat	er Table (A2)			☐ Biotic Crust	(B12)			Sediment Dep	posits (B2) (Riverine)
✓ Saturation	n (A3)			Aquatic Inve	rtebrates	(B13)		☐ Drift Deposits	s (B3) Riverine)
☐ Water Ma	rks (B1) (Nor	riverine)		Hydrogen Su	ılfide Odo	r (C1)		☐ Drainage Patt	erns (B10)
Sediment	Deposits (B2) (Nonrive	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3	B) Dry Season W	Vater Table (C2)
Drift depo	osits (B3) (No	neriverine)		Presence of	Reduced	Iron (C4)		Crayfish Burro	ows (C8)
	oil Cracks (B6			Recent Iron			Soils (C6)		sible on Aerial Imagery (C9)
	n Visible on A	•	ery (B7)	Thin Muck S				Shallow Aquit	
☐ Water-Sta	ined Leaves	(B9)		Other (Expla	iin in Rem	arks)		✓ FAC-neutral T	est (D5)
Field Observ	ations:		<u> </u>						
Surface Water	Present?	Yes			hes):	11	_		
Water Table P	resent?	Yes	No C	Depth (inc	hes):	0			V (A) N- (
Saturation Pre (includes capil		Yes	● No C	Depth (inc	hes):	0	Wetla _	and Hydrology Present?	Yes ● No ○
Describe Rec	corded Data	(stream	gauge, mon	itor well, aerial pho	itos, prev	vious inspe	ctions), if	available:	
Remarks:									
	hydrogen si	ılfide odo	r when even	vated, and were in	undatad				
Julia Citill d l	nyurogen st	aniue uuu	WINELL EXCO	vateu, anu were illi	unuatëü.				

Project/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 11-May-16	
Applicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 27	7
Investigator(s): Todd Sherman	Section, Township, Range: S 4 T 9S R 2E	
Landform (hillslope, terrace, etc.): Swale	Local relief (concave, convex, none): concave Slope: 0.0 9	%/ 0.0
Gubregion (LRR): LRR D	Lat.: 438875 Long.: 4434578 Datum: NAD8	33
oil Map Unit Name: Logan silty clay loam	NWI classification: PEM	
e climatic/hydrologic conditions on the site typical for th		
Are Vegetation, Soil, or Hydrology	significantly disturbed? Are "Normal Circumstances" present? Yes No)
Are Vegetation $\ oxdot$, Soil $\ oxdot$, or Hydrology $\ oxdot$ Summary of Findings - Attach site map s	naturally problematic? (If needed, explain any answers in Remarks.) nowing sampling point locations, transects, important features	s, etc.
Hydrophytic Vegetation Present? Yes No		<u>-</u>
Hydric Soil Present? Yes ● No ○	Is the Sampled Area	
Wetland Hydrology Present? Yes • No •	within a Wetland? Yes No	
5 .		
Remarks: Palustrine emergent wetland in a grazed pa	ure.	
VEGETATION - Use scientific names of pla	nts. Dominant	
	Species? Absolute Rel.Strat. Indicator Dominance Test worksheet:	
	% Cover Cover Status Number of Dominant Species	
1,		(A)
2		
3	0 0 00/	(B)
4		
Sapling/Shrub Stratum (Plot size:)	Percent of dominant Species That Are OBL, FACW, or FAC: 75.0%	(A/B)
1		
2		
3	0	
4. 5.	0 0.0\% FACW species 60 x 2 =120	
5		
(DL) of a	= Total Cover FACU species $_{\underline{20}}$ x 4 = $_{\underline{80}}$	
Herb Stratum (Plot size:)	UPL species $0 \times 5 = 0$	
1. Juncus balticus	40 40.0% FACW Column Totals: 100 (A) 220	(B)
Carex praegracilis Carex nebrascensis	20 20.0% FACW 20 20.0% OBL Prevalence Index = B/A = 2.200	
4. Festuca pratensis	20 20 20 5401	
5.	Hydrophytic Vegetation Indicators:	
6.	0 0.0% Prevalence Index is ≤ 3.0 1	
7.	0 0.0% Morphological Adaptations ¹ (Provide supporti	
8.	Morphological Adaptations (Provide supportion of the control of the contr	ing
9.	0 0.0% Problematic Hydrophytic Vegetation 1 (Explain	n)
10. 11.		,
11.		
	100 = Total Cover 1 Indicators of hydric soil and wetland hydrology rules be present, unless disturbed or problematic.	must
Woody Vine Stratum (Plot size:)		
1		
2	O O0% Hydrophytic Vegetation	
% Bare Ground in Herb Stratum: 0 %	Cover of Biotic Crust n	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Des	cribe to	the depth ne	eeded to document	the indi	cator or co	onfirm the	absence of indicators.)	
Depth		Matrix			lox Featu				
(inches)	Color (<u>%</u>	Color (moist)	<u>%</u>	Tvpe	Loc ²	Texture	Remarks
0-5	10YR	3/2	100%					Loam	
5-20	10YR	4/1	100%		-			Loam	
		-							
1 Type: C=Con		=Depletio	n. RM=Reduc	ed Matrix. CS=Covere	d or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Mat	rix
				Rs, unless otherwis				Indicators for Problem	
Histosol (A		C		Sandy Redox (,		1 cm Muck (A9) (LRI	-
	pedon (A2)			Stripped Matrix				2 cm Muck (A10) (LF	·
Black Hist				Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18	,
_ ` `	Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)		Red Parent Material	·
	Layers (A5) (•		✓ Depleted Matri	ix (F3)			Other (Explain in Re	. ,
	k (A9) (LRR D		4)	Redox Dark Su	ırface (F6))			
	Below Dark S k Surface (A1	•	1)	Depleted Dark		F7)			
	ck Mineral (S	•		Redox depress	` '			³ Indicators of hydrophy	tic vegetation and
I — ·	yed Matrix (S			Vernal Pools (I	F9)			wetland hydrology m	ust be present.
Restrictive La									
Type:	ayer (ii pres	city.							
Depth (incl	nes):							Hydric Soil Present?	Yes ● No ○
Remarks:									
Soils meet the	e criteria for	denleter	l matrix						
00110 111000 1110	, or red re	шорлого							
Hydrology	<i>y</i>								
Wetland Hyd	rology Indi	cators:							
Primary Indi	cators (mini	mum of	one required	l; check all that app	oly)			Secondary Indica	ators (2 or more required)_
Surface W	ater (A1)			Salt Crust (B	311)			Water Marks (E	31) (Riverine)
High Wate	er Table (A2)			Biotic Crust	(B12)			Sediment Depo	osits (B2) (Riverine)
✓ Saturation				Aquatic Inve				Drift Deposits	(B3) Riverine)
	rks (B1) (Non			☐ Hydrogen Su				☐ Drainage Patte	
	Deposits (B2)			Oxidized Rhi	•	Ü	g Roots (C3		` '
	sits (B3) (No			Presence of		, ,	Caila (C()	Crayfish Burrov	` '
_	oil Cracks (B6 n Visible on A		iony (P7)	Recent Iron Thin Muck S			SUIIS (CD)	Saturation visi	ble on Aerial Imagery (C9)
	ined Leaves (ler y (b7)	Other (Expla				FAC-neutral Te	, ,
Field Observa		/						- The neutral re	.st (50)
Surface Water		Yes	O No 🖲	Depth (inc	hes):				
Water Table Pi		Yes	○ No				_		
Saturation Pres		Yes				10	Wetla	and Hydrology Present?	Yes ● No ○
(includes capill						10			
Describe Rec	orded Data	(stream	gauge, mon	itor well, aerial pho	itos, prev	nous inspe	ections), if	available:	
Remarks:									
Soils are satu	ırated in the	Upner n	rofile						
Jons are sate	4.04 111 1110	appoi p							

Applicant/Owner: Utah Department of Tr Investigator(s): Todd Sherman Landform (hillslope, terrace, etc.): Value of the Value of True			Section, Township, R	State: UT ange: S 4 T	Sampling Point:	28
Landform (hillslope, terrace, etc.): Value of the Value o	alley bottom		Section, Township, R	ange: S 4 T	OC D OF	
Subregion (LRR): LRR D	alley bottom			_	9S R _2E	
		I	ocal relief (concave,	convex, none): convex	Slope:	0.0 % / 0.0
oil Map Unit Name: Logan silty clay lo		Lat.: 438	8870	Long.: 4434575	Datum	n: NAD83
	am			NWI class	ification: Upland	
e climatic/hydrologic conditions on th		s time of year?	Yes No			
Are Vegetation, Soil,	or Hydrology	significantly di	sturbed? Are "N	Iormal Circumstances"	present? Yes •	No \bigcirc
Are Vegetation, Soil,	or Hydrology	naturally probl		eded, explain any answ	•	
Summary of Findings - Atta			•			tures, etc.
	Yes O No •				•	
Hydric Soil Present?	Yes O No 💿		Is the Sampled I	Vac O Na 📵		
Wetland Hydrology Present?	Yes O No 💿		within a Wetland	d? res O NO O		
Remarks: Upland area adjacent to	SP-27					
Opiana area adjacent to	51 -27.					
VEGETATION - Use scienti	fic names of pla	nts.	Dominant			
		Absolute	Species? ————————————————————————————————————	Dominance Test wor	ksheet:	
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Dominant Sp	pecies	
1,				That are OBL, FACW, or	FAC: 0	(A)
2				Total Number of Domin	ant	
3. 4.				Species Across All Strata	a: <u>1</u>	(B)
		0	0.0%	Percent of dominant	Species	
Sapling/Shrub Stratum (Plot size:)	=	= Total Cover	That Are OBL, FACW		(A/B)
1.		о [0.0%	Prevalence Index wo	rksheet:	
2.			0.0%	Total % Cover		
3.		0	0.0%	OBL species		0
4.		0	0.0%			10
5.			0.0%	FAC species		0
		0 =	= Total Cover	FACU species	80 x 4 = 3	20
Herb Stratum (Plot size:)		_	UPL species	0 x 5 =	0
1. Festuca pratensis			✓ 80.0% FACU	Column Totals:	100 (A) 3	60 (B)
•			10.0% FACW			
3. Juncus balticus 4.			10.0% FACW	Prevalence Index	c = B/A = 3.600	<u>) </u>
4 5.				Hydrophytic Vegetati		
6.		<u>0</u> [0.0%	☐ Dominance Test		
7.		[0.0%	Prevalence Inde		
8.		0	0.0%	☐ Morphological A	daptations ¹ (Provide s or on a separate shee	supporting t)
9.		0	0.0%		Irophytic Vegetation ¹	
10.		0	0.0%	Froblematic riye	iopriytic vegetation	(Explain)
11.			0.0%	1		
		100=	= Total Cover		c soil and wetland hyd sturbed or problemation	
Woody Vine Stratum (Plot size:)					
1			0.0%			
2		0	0.0%	Hydrophytic Vegetation		
		=	= Total Cover	Present? Yes	○ No ●	
% Bare Ground in Herb Stratum: _	0 %	Cover of Biotic	Crust 0			
Remarks:				,		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/4	100%					Loam	
				-				
				-				
Euros C. Con	contration D. Donlation		d Matrix CS Covers	d or Coata	d Cand Crain	21 ocat		atriv
J.	ndicators: (Applicab					S -LUCAT		
Histosol (ile to all LKK	Sandy Redox (ematic Hydric Soils: ³
	pedon (A2)		Stripped Matrix				1 cm Muck (A9) (L	•
Black Hist			Loamy Mucky i		1)		2 cm Muck (A10)	,
7	Sulfide (A4)		_				Reduced Vertic (F	•
	Layers (A5) (LRR C)		Loamy Gleyed Depleted Matri)		Red Parent Materia	• •
_	k (A9) (LRR D)		Redox Dark Su				Other (Explain in F	Remarks)
Depleted	Below Dark Surface (A1	1)			-7\			
_	k Surface (A12)		Depleted Dark Redox depress		- /)			
Sandy Mu	ck Mineral (S1)		•				3 Indicators of hydropl	
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrology	must be present.
estrictive L	ayer (if present):							
Type:	ayo. (p. ccc).							
Type: Depth (inc							Hydric Soil Present?	Yes ○ No ●
Depth (inc	nes):of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (inclemarks:	nes): of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (inclemarks: o indicators	nes): of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (included per	nes): of hydric soil.						Hydric Soil Present?	Yes O No O
Depth (includer property) Depth (includer pr	of hydric soil.	one required;	check all that app	oly)				Yes No •
Depth (inclemarks: indicators	of hydric soil. y rology Indicators: cators (minimum of o	one required;	: check all that app				_Secondary Ind	
Depth (inclemants: indicators ydrology etland Hyd rimary Indi Surface W	of hydric soil. y rology Indicators: cators (minimum of o	one required;		11)			Secondary Ind	cators (2 or more required)
Depth (inclease with the content of	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2)	one required;	Salt Crust (B	11) (B12)	(B13)		Secondary Ind Water Marks Sediment De	icators (2 or more required) (B1) (Riverine)
Depth (inclemants: Dindicators	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2)	one required;	Salt Crust (B	11) (B12) rtebrates (Secondary Ind Water Marks Sediment De	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (inclements: Dindicators ydrology fetland Hydrimary Indi Surface W High Wate Saturatior Water Ma	of hydric soil. rology Indicators: cators (minimum of clater (A1) er Table (A2) n (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary Ind Sediment De Drift Deposit Drainage Pal	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (incleanance) emarks: indicators ydrology fetland Hyd rimary Indi Surface W High Wate Saturatior Water Ma Sediment	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Ind Sediment De Drift Deposit Drainage Pal	icators (2 or more required) (B1) (Riverine) sposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)
Depth (inclease and inclease an	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II	(C1) along Living ron (C4)		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V	icators (2 or more required) (B1) (Riverine) sposits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2)
Depth (includer includer inclu	rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pai Dry Season V	icators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9)
pepth (incleanance) population of the percentage of the percentag	of hydric soil. rology Indicators: cators (minimum of cator (A1) er Table (A2) a (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation V	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer includer inclu	rology Indicators: cators (minimum of otater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) bil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck So	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer line) Permarks: Dindicators Pydrology Petland Hyde Primary Indi Surface W High Water Ma Sediment Drift depc Surface Sc Inundatio Water-Sta ield Observ	rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations:	rine) ery (B7)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includer in the content of th	rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) cists (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)		Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (includermarks: principle indicators of indicators o	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) n (A3) Deposits (B2) (Nonriverine) Deposits (B3) (Noneriverine) Dil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So	oils (C6)	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incl Remarks: o indicators ydrology Vetland Hyd Primary Indi Surface W High Wate Saturatior Water Ma Sediment Drift depc Surface Se Inundatio	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	oils (C6)	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Pal Dry Season V Crayfish Burr Saturation V Shallow Aqu	icators (2 or more required) (B1) (Riverine) (Posits (B2) (Riverine) (S (B3) Riverine) (Sterns (B10) (Water Table (C2) (Fows (C8) (Sible on Aerial Imagery (C9) (Stard (D3)
Depth (inclease Marks:	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (inci Remarks: D indicators ydrology Vetland Hyd Primary Indi Surface W High Water Saturatior Water Ma Sediment Drift depc Surface Sc Inundatio Water-Sta ield Observ urface Water Vater Table Praturation Preincludes capil	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incidemarks: Dindicators of indicators of indicator	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)
Depth (incleaded permarks: Depth (incleaded perm	of hydric soil. rology Indicators: cators (minimum of of ater (A1) er Table (A2) n (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? yes ary fringe) Yes	ery (B7) No O No O No O qauge, monit	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Ind Water Marks Sediment De Drift Deposit Drainage Par Organish Burn Saturation V Shallow Aqu FAC-neutral	icators (2 or more required) (B1) (Riverine) (posits (B2) (Riverine) s (B3) Riverine) tterns (B10) Water Table (C2) rows (C8) sible on Aerial Imagery (C9) itard (D3) Test (D5)

	Lat.: 4396 e of year? nificantly di	Yes No sturbed? Are "N	convex, none): concave Slope: 1.0 % / Long.: 4433593 Datum: NAD83 NWI classification: PEM	<u>/ 0.0</u>
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this tim Are Vegetation , Soil , or Hydrology , sign Are Vegetation , Soil , or Hydrology , naturally naturally summary of Findings - Attach site map show	Lat.: 4396 e of year? nificantly di	ocal relief (concave, of 685 Yes No sturbed? Are "N	Convex, none): Concave Slope: 1.0 % / Long.: 4433593 Datum: NAD83 NWI classification: PEM (If no, explain in Remarks.) Dormal Circumstances" present? Yes No	<u>/0.</u>
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this tim Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map show	e of year? nificantly di	Yes No sturbed? Are "N	Long.: 4433593 NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No	<u>/0.</u>
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this tim Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map show	e of year? nificantly di urally probl	Yes No C	NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No	_
Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this tim Are Vegetation , Soil , or Hydrology , sign Are Vegetation , Soil , or Hydrology , naturally Summary of Findings - Attach site map show	e of year? nificantly di urally probl	Yes No C	NWI classification: PEM (If no, explain in Remarks.) ormal Circumstances" present? Yes No	
re climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology signered states , soil	nificantly di urally probl	sturbed? Are "N	(If no, explain in Remarks.) ormal Circumstances" present? Yes ● No ○	
Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nate Summary of Findings - Attach site map show	nificantly di urally probl	sturbed? Are "N	ormal Circumstances" present? Yes No	
Are Vegetation , Soil , or Hydrology nature. Summary of Findings - Attach site map show	urally probl		F	
Summary of Findings - Attach site map show		ematic? (If nee	ded, explain any answers in Remarks.)	
		npling point loc	ations, transects, important features, e	etc.
hydrophytic vegetation Present? Tes S INO S			·	
Hydric Soil Present? Yes No		Is the Sampled A		
Wetland Hydrology Present? Yes ● No ○		within a Wetland	? Yes ● No ○	
5 1				
Remarks: Palustrine emergent wetland in a grazed pasture.				
VEGETATION - Use scientific names of plants.		Dominant		
·	Absolute	Species? ————————————————————————————————————	Dominance Test worksheet:	
		Cover Status	Number of Dominant Species	
1	0	0.0%	That are OBL, FACW, or FAC:3(A)	
2	_0_	0.0%	Total Number of Dominant	
3		0.0%	Species Across All Strata:3(B)	
4		0.0%	Dercent of deminent Chesics	
Sapling/Shrub Stratum (Plot size:)		Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC:100.0% (A/B	<i>i</i>)
1	0	0.0%	Prevalence Index worksheet:	
2	_0	0.0%	Total % Cover of: Multiply by:	
3	_0_	0.0%	OBL species50 x 1 =50	
4.	0	0.0%	FACW species	
5.	0	0.0%	FAC species <u>40</u> x 3 = <u>120</u>	
	0 =	Total Cover	FACU species $0 \times 4 = 0$	
Herb Stratum (Plot size:)	F	•	UPL species $0 \times 5 = 0$	
1. Schoenoplectus pungens		✓ 50.0% OBL	Column Totals: 100 (A) 190 (B))
Distichlis spicata Hordeum jubatum		20.0% FAC FAC	Prevalence Index = B/A = 1.900	
4. Muhlenbergia asperifolia	20 10	20.0% FAC 10.0% FACW		
5.	0	0.0%	Hydrophytic Vegetation Indicators: Dominance Test is > 50%	
6.	0	0.0%	✓ Prevalence Index is ≤3.0 ¹	
7.	0	0.0%	Morphological Adaptations ¹ (Provide supporting	_
8.	0	0.0%	data in Remarks or on a separate sheet)	ı
9.	_0_	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)	
10. 11.	_0			
	0	0.0%	¹ Indicators of hydric soil and wetland hydrology mus	
	100=	Total Cover	be present, unless disturbed or problematic.	st
	_			
1				
2	0		Hydrophytic Vegetation	
		Total Cover	Present? Yes No	
% Bare Ground in Herb Stratum: 0 % Cove	er of Biotic	Crust 0		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth ne	eded to document	the indic	cator or co	nfirm the	absence of indicators.)
Depth Matrix		ox Featu			-
(inches) Color (moist) %	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	TextureRemarks
0-8 10YR 2/2 100%					Loam
8-20 10YR 6/2 100%					Clay Loam
		-			
1 Type: C=Concentration. D=Depletion. RM=Reduce				ins ² Loca	tion: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRR					Indicators for Problematic Hydric Soils: ³
Histosol (A1)	Sandy Redox (1 cm Muck (A9) (LRR C)
Histic Epipedon (A2) Black Histic (A3)	Stripped Matrix				2 cm Muck (A10) (LRR B)
Hydrogen Sulfide (A4)	Loamy Mucky N				Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed		2)		Red Parent Material (TF2)
1 cm Muck (A9) (LRR D)	✓ Depleted Matri:	` ,			Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Su				
Thick Dark Surface (A12)	Depleted Dark		-/)		
Sandy Muck Mineral (S1)	Redox depressi				³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Vernal Pools (F	9)			wetland hydrology must be present.
Restrictive Layer (if present):					
Туре:					
Depth (inches):					Hydric Soil Present? Yes ● No ○
Remarks:					
Soils meet the criteria for depleted matrix.					
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required)	check all that app	lv)			Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B				Water Marks (B1) (Riverine)
☐ High Water Table (A2)	☐ Biotic Crust (B12)			Sediment Deposits (B2) (Riverine)
✓ Saturation (A3)	Aquatic Inver	tebrates	(B13)		☐ Drift Deposits (B3) Riverine)
Water Marks (B1) (Nonriverine)	Hydrogen Su	lfide Odor	(C1)		Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhizospheres along Living Roots (C3)				B) Dry Season Water Table (C2)
Drift deposits (B3) (Noneriverine)	Presence of F	Reduced I	ron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron F	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su	ırface (C7)		Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9)	Other (Explai	n in Rema	arks)		FAC-neutral Test (D5)
Field Observations:					
Surface Water Present? Yes O No •	Depth (inch	ies):		_	
Water Table Present? Yes No •	Depth (inch	ies):			
Saturation Present? (includes conillary frings) Yes No	Depth (inch	ies):	11	Wetla	and Hydrology Present? Yes ● No ○
(includes capillary fringe) Describe Recorded Data (stream gauge, monit				ctions) if	available:
	or wen, acriai prio	os, piev	тоиз пізре	caons), II	available.
Remarks:					
Soils are saturated in the upper profile.					
22 2 5 catal atoa the appear promo.					

Applicant/Owner: Utah Department of Transportation Investigator(s): Todd Sherman Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam Are climatic/hydrologic conditions on the site typical for the same vegetation , soil , or Hydrology Are Vegetation , soil , or Hydrology Summary of Findings - Attach site map so Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantage of the same vegetation Tree Stratum (Plot size:) 1	Local relief (conc. Lat.: 439679 nis time of year? Yes significantly disturbed? A naturally problematic? (conc. Showing sampling point Is the Samp within a We ants. Dominant Species? Absolute Rel.Strat. Cover Cover State 0 0.0%	re "Normal Circumstances" present? Yes No Clf needed, explain any answers in Remarks.) I locations, transects, important features, etc. Deled Area etland? Yes No Dominance Test worksheet:
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam Are climatic/hydrologic conditions on the site typical for the Are Vegetation , Soil , or Hydrology , or Hydrology , or Hydrology , or Hydrology Summary of Findings - Attach site map so Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantal site in the stream of the strea	Local relief (conc. Lat.: 439679 nis time of year? Yes significantly disturbed? A naturally problematic? (conc. Showing sampling point Is the Samp within a We ants. Dominant Species? Absolute Rel.Strat. Cover Cover State 0 0.0%	ave, convex, none): flat Long.: 4433587 NWI classification: Upland No (If no, explain in Remarks.) re "Normal Circumstances" present? Yes No If needed, explain any answers in Remarks.) Locations, transects, important features, etc. pled Area etland? Yes No Dominance Test worksheet:
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam The Climatic Phydrologic conditions on the site typical for the sare Vegetation	Lat.: 439679 nis time of year? Yes significantly disturbed? A naturally problematic? ((showing sampling point Is the Samp within a We Absolute Rel.Strat. Indic % Cover Cover Statu	NWI classification: Upland No (If no, explain in Remarks.) re "Normal Circumstances" present? Yes No If needed, explain any answers in Remarks.) I locations, transects, important features, etc. Poled Area Petland? Yes No Dominance Test worksheet:
Soil Map Unit Name: Vineyard fine sandy loam are climatic/hydrologic conditions on the site typical for the Are Vegetation	ants. Absolute Absolute Absolute Accover Dominant Species? Absolute Absolute Cover Dominant Species? Absolute Cover Dominant Species? Absolute Cover Cover Cover Dominant Species? Absolute Absolute Cover	NWI classification: Upland No (If no, explain in Remarks.) re "Normal Circumstances" present? Yes No If needed, explain any answers in Remarks.) I locations, transects, important features, etc. pled Area etland? Yes No Dominance Test worksheet:
re climatic/hydrologic conditions on the site typical for the Are Vegetation	significantly disturbed? naturally problematic? (Showing sampling point Is the Samp within a We ants. Dominant Species? Absolute % Cover Cover 0 0.0%	No (If no, explain in Remarks.) re "Normal Circumstances" present? Yes No If needed, explain any answers in Remarks.) I locations, transects, important features, etc. Poled Area Petland? Yes No Dominance Test worksheet:
re climatic/hydrologic conditions on the site typical for the Are Vegetation , Soil , or Hydrology	significantly disturbed? naturally problematic? (Showing sampling point Is the Samp within a We ants. Dominant Species? Absolute % Cover Cover 0 0.0%	re "Normal Circumstances" present? Yes No Clf needed, explain any answers in Remarks.) I locations, transects, important features, etc. Deled Area etland? Yes No Dominance Test worksheet:
Are Vegetation , Soil , or Hydrology Are Vegetation , Soil , or Hydrology Summary of Findings - Attach site map so Hydrophytic Vegetation Present? Yes No Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantage of the Stratum (Plot size:) 1	significantly disturbed? naturally problematic? (Showing sampling point Is the Samp within a We ants. Dominant Species? Absolute % Cover Cover 0 0.0%	If needed, explain any answers in Remarks.) I locations, transects, important features, etc. Deled Area Petland? Yes No Dominance Test worksheet:
Summary of Findings - Attach site map s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantage of the stratum (Plot size:) 1	ants. Dominant Species? Absolute Rel. Strat. Output Output Absolute Rel. Strat. Output Output	If needed, explain any answers in Remarks.) I locations, transects, important features, etc. Doled Area etland? Yes O No Dominance Test worksheet:
Summary of Findings - Attach site map s Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantage of the stratum (Plot size:) 1	ants. Absolute % Cover 0 0.0%	I locations, transects, important features, etc. Died Area etland? Yes O No O Cator Dominance Test worksheet:
Hydrophytic Vegetation Present? Yes No No Wetland Soil Present? Yes No Wetland Hydrology Present? Yes No No Vegetation Hydrology Present? Yes No No Vegetation Area adjacent to SP-29. VEGETATION - Use scientific names of plants of the Stratum (Plot size:) 1	ants. Dominant Species? Absolute Rel.Strat. Indic Cover Statu	oled Area etland? Yes No Cator Dominance Test worksheet:
Wetland Hydrology Present? Yes No No Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of plantage of the North Property of the N	ants. Dominant Species? Absolute Rel.Strat. Indic Cover Statu	etland? Yes O No O
Remarks: Upland area adjacent to SP-29. VEGETATION - Use scientific names of pla Tree Stratum (Plot size:) 1 2.	Absolute Rel.Strat. Indic Cover Statu	cator Dominance Test worksheet:
VEGETATION - Use scientific names of plantage of plant	Absolute % Cover State 0 0.0%	
VEGETATION - Use scientific names of planting (Plot size:) 1	Absolute % Cover State 0 0.0%	
	Absolute % Cover State 0 0.0%	
	Absolute % Cover State 0 0.0%	
1 2	Absolute Rel.Strat. Indic % Cover Statu	
1 2	0 0.0%	
2.		Number of Dominant Species
-		That are OBL, FACW, or FAC:1(A)
.)		Total Number of Dominant
4.	0 0.0%	Species Across All Strata: 2 (B)
1.	0	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, FACW, or FAC: 50.0% (A/B)
1.	0 0.0%	Prevalence Index worksheet:
2.	0 0.0%	Total % Cover of: Multiply by:
3.	0 0.0%	0BL species 0 x 1 = 0
4.	0 0.0%	FACW species 0 x 2 = 0
5.	0	FAC species 60 x 3 = 180
	0 = Total Cover	FACU species x 4 =40
Herb Stratum (Plot size:)		UPL species $30 \times 5 = 150$
1. Hordeum jubatum	60	Column Totals: 100 (A) 370 (B)
2. Atriplex micrantha		
Trifolium fragiferum 4.		
5.	0 0.0%	Hydrophytic Vegetation Indicators:
6.	0 0.0%	Dominance Test is > 50% Prevalence Index is ≤3.0 ¹
7.	0 0.0%	
8.	0 0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	0 0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10. 11.	0	
11.	0 0.0%	
	100 = Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woodv Vine Stratum (Plot size:)		
1	0	
2	0	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No •
% Bare Ground in Herb Stratum: 0	% Cover of Biotic Crust _0	
Remarks:		
The area does not meet the vegetation criteria.		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	'							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

Applicant/Owner: Utah Department of			_ `	only/ County:	Payson/Utal	n	Sampli	ng Date: <u>14-C</u>	Oct-15
tppilcarit/ Owner. Otali Departinent of	f Transportation	1				State: UT	Sam	pling Point:	31
Investigator(s): Todd Sherman				Section, To	wnship, Ra	ange: S 10	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Valley botton	n		Local relief	(concave, c	convex, none): COI	ncave	Slope:	
Subregion (LRR): LRR D			 . at .: 43	9569		Long.: 4433740			n: NAD83
oil Map Unit Name: Vineyard fine s	andy loam			,,,,,,			classification		
re climatic/hydrologic conditions on		cal for this time	of voor	2 Yes	● No ○		ain in Remarl		
Are Vegetation, Soil	or Hydrolog,		-	disturbed?		ormal Circumstan			No O
							-		110 0
Are Vegetation	or Hydrolog ttach site	<u> </u>		oblematic? Impling po		eded, explain any a ations, trans			ntures, etc.
Hydrophytic Vegetation Present?		No O	- J						
Hydric Soil Present?	_	No O		Is the	Sampled A				
Wetland Hydrology Present?		No O		within	a Wetland	_{l?} Yes 🖲 No	O		
Remarks: Palustrine emergent v	wetland create	ed by an artesian	well pi	ipe.					
VECETATION	. +: C:								
VEGETATION - Use scier	ntific name:	s of plants.		Dominant — Species?		1			
Tree Stratum (Plot size:)		osolute o Cover		Indicator Status	Dominance Test	worksheet:		
1.			0	0.0%	Status	Number of Domina That are OBL, FAC	•	4	(A)
2			0	0.0%		That are OBL, FAC	W, OI FAC.	4_	(A)
3			0	0.0%		Total Number of D			(D)
4.			0	0.0%		Species Across All	Strata:	4_	(B)
		, -	0	= Total Cove	er	Percent of domin		100.0	% (A/B)
Sapling/Shrub Stratum (Plot size:			0	0.0%					
1 2.						Prevalence Index			
3.			0	0.0%		Total % Co		Multiply by:	
4.			0	0.0%		OBL species	30		30
5.			0	0.0%		FACW species	70		40
-			0	0.0%		FAC species	0		0
Herb Stratum (Plot size:)	_	0	= Total Cove	er	FACU species	0		0
1. Juncus balticus			30	3 0.0%	FACW	UPL species	0	x 5 =	0
Eleocharis palustris			25	✓ 25.0%	OBL	Column Totals	:100	(A) <u>1</u>	70 (B)
3. Phalaris arundinacea			20	20.0%	FACW	Prevalence	Index = B/A :	= 1.70	0
4. Polypogon monspeliensis			20	20.0%	FACW	Hydrophytic Veg			
5. Schoenoplectus pungens			5	5.0%	OBL	✓ Dominance			
6.			0	0.0%			Index is ≤3.0		
7.			0	0.0%					
8.			0	0.0%				ns ¹ (Provide separate shee	
9.			0	0.0%				· : Vegetation ¹	
10.			0	0.0%		Troblematic	, riyaropiiya	vegetation	(Explain)
11.			0	0.0%		4			
		_	100	= Total Cove	er	1 Indicators of h be present, unle			
Woodv Vine Stratum (Plot size:)							
1			0	0.0%					
			0	0.0%		Hydrophytic Vegetation			
2					·r		Yes N	- ()	
2			0	= Total Cove	;1	Present?	res 🙂 N	o O	
2 % Bare Ground in Herb Stratum	n: <u>0</u>	% Cover		= Total Cove		Present?	Yes S IN	.	
	n: <u>0</u>	% Cover				Present?	Yes © N	0	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix Redox Features
1 Type: C=Concentration. D=Depletion. RM=Reduced Matrix, CS=Covered or Coated Sand Grains
Type: C-Concentration. D-Depletion. RM-Reduced Matrix. CS-Covered or Coated Sand Grains
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Historsoi (A1)
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Red Parent Material (TF2) Tom Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Bark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Redox depressions (F8) Indicators of hydrophytic vegetation and wetland hydrology must be present. Permarks: Peplete (Inches): Peplete
Histosol (A1) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Red Parent Material (TF2) Tom Muck (A9) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Matrix (F3) Other (Explain in Remarks) Tom Muck (A9) (LRR D) Pepleted Bark Surface (F7) Thick Dark Surface (A12) Redox Dark Surface (F7) Redox depressions (F8) Indicators of hydrophytic vegetation and wetland hydrology must be present. Permarks: Peplete (Inches): Peplete
Histic Epipedon (A2) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Black Histic (A3) Loamy Mucky Mineral (F1) Reduced Vertic (F18) Hydrogen Sulfide (A4) Loamy Gleyed Matrix (F2) Red Parent Material (TF2) Tem Muck (A9) (LRR D) Redox Dark Surface (F3) Other (Explain in Remarks) Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Redox depressions (F8) 3 Indicators of hydrophytic vegetation and welland hydrology must be present. Restrictive Layer (if present): Type:
Black Histic (A3)
Hydrogen Sulfide (Ad)
Startaffied Layers (A5) (LRR C)
1 cm Muck (A9) (LRR D)
□ Thick Dark Surface (A12) □ Depleted Dark Surface (F1) □ Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Pool
Thick Dark Surface (A12)
Sandy Gleyed Matrix (S4) Vertial Pouls (P9) wetland hydrology must be present. Restrictive Layer (if present): Type: Depth (inches): Hydric Soil Present? Yes No
Restrictive Layer (if present): Type: Depth (inches):: Remarks: Soils meet the criteria for redox dark surface. Hydric Soil Present? Yes No No No Hydric Soil Present? Yes No
Type:
Remarks: Soils meet the criteria for redox dark surface. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dry Season Water Table (C2)
Remarks: Soils meet the criteria for redox dark surface. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Dry Season Water Table (C2)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Wetland Hydrology Indicators (2 or more required) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B2) (Riverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Proceedings Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2)
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Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Primary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) Riverine) Drainage Patterns (B10) Dry Season Water Table (C2)
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Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) ✓ High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) ✓ Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) ✓ Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)
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✓ Saturation (A3) ☐ Aquatic Invertebrates (B13) ☐ Drift Deposits (B3) Riverine) ☐ Water Marks (B1) (Nonriverine) ☐ Hydrogen Sulfide Odor (C1) ☐ Drainage Patterns (B10) ☐ Sediment Deposits (B2) (Nonriverine) ✓ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry Season Water Table (C2)
Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) ✓ Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2)
☐ Drift deposits (B3) (Noneriverine) ☐ Presence of Reduced Iron (C4) ☐ Crayfish Burrows (C8)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)
☐ Inundation Visible on Aerial Imagery (B7) ☐ Thin Muck Surface (C7) ☐ Shallow Aquitard (D3)
☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ✓ FAC-neutral Test (D5)
Field Observations:
Surface Water Present? Yes No Depth (inches):
Water Table Present? Yes No Depth (inches): 6
Saturation Present? Yes • No
Saturation Present? (includes capillary fringe) Yes No Depth (inches):3
THE WAY IND () LIGHTH (INCHES): 3
(includes capillary fringe) Yes No Depth (inches):3
(includes capillary fringe) Yes No Depth (inches):3
(includes capillary fringe) Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:

are Vegetation	Lat.: 43956 ime of year? gnificantly distaturally problet	Yes • No C	convex, none): flat Long.: 4433738 NWI cl	T 9S assification: n in Remarks es" present?	Datum:	32
Landform (hillslope, terrace, etc.): Valley bottom subregion (LRR): LRR D oil Map Unit Name: Vineyard fine sandy loam e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology , single Vegetation , soil , single Vegetation , single Vegetat	Lat.: 43956 ime of year? gnificantly distaturally problet	Yes No Curbed?	Long.: 4433738 NWI cl (If no, explain	assification: n in Remarks es" present?	Slope: Datum Upland	: NAD83
cubregion (LRR): LRR D coil Map Unit Name: Vineyard fine sandy loam e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology	Lat.: 43956 ime of year? gnificantly dist	Yes No Curbed? Are "No	Long.: 4433738 NWI cl. (If no, explainormal Circumstance	n in Remarks	Datum Upland	: NAD83
cubregion (LRR): LRR D coil Map Unit Name: Vineyard fine sandy loam e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology	ime of year? gnificantly dist	Yes • No C	NWI cl. (If no, explai	n in Remarks	Upland s.)	
oil Map Unit Name: Vineyard fine sandy loam e climatic/hydrologic conditions on the site typical for this to the Vegetation , Soil , or Hydrology single site Vegetation , Soil , or Hydrology not some summary of Findings - Attach site map shows	ime of year? gnificantly dist	Yes • No C	NWI cl. (If no, explai	n in Remarks	Upland s.)	
e climatic/hydrologic conditions on the site typical for this to the Vegetation	gnificantly dist	urbed? Are "No	(If no, explai	n in Remarks	s.)	No O
Are Vegetation	gnificantly dist	urbed? Are "No	ormal Circumstance	es" present?		No O
Are Vegetation, Soil, or Hydrology	aturally proble			•		INCL 🗸
Summary of Findings - Attach site map sho		matic? (If nee	eded, explain any an			110
		pling point loc				tures, etc.
Hydrophytic Vegetation Present? Yes O No 💿		1				
Hydric Soil Present? Yes O No 💿		Is the Sampled A	rea 2 Yes O No (
Wetland Hydrology Present? Yes No		within a Wetland	? Yes \bigcirc NO \bigcirc	9		
Remarks: Upland area adjacent to SP-31.						
opiand area adjacent to 31-31.						
VEGETATION - Use scientific names of plant	S. D	Oominant				
<u> </u>		pecies? ———— Rel.Strat. Indicator	Dominance Test v	vorksheet:		
Tree Stratum (Plot size:)		over Status	Number of Dominan			
1	_0 _	0.0%	That are OBL, FACW	•	0	(A)
2	_ 0	0.0%	Total Number of Do	minant		
3	_0	0.0%	Species Across All St		1_	(B)
4		0.0%	Percent of domina	ant Species		
Sapling/Shrub Stratum (Plot size:)	= 7	Total Cover	That Are OBL, FAG		0.0%	(A/B)
1.	0	0.0%	Dravalanas Indov	urankahaat.		
2.	0	0.0%	Prevalence Index		Multiply by:	
3.	0	0.0%	OBL species)
4.	0	0.0%	FACW species)
5.	0	0.0%	FAC species)
	0 = 7	Total Cover	FACU species			00
Herb Stratum (Plot size:)	_		UPL species	0	x 5 =)
1. Festuca pratensis	_100 🔽	100.0% FACU	Column Totals:			00 (B)
2	0	0.0%				
3	0	0.0%	Prevalence In			
5.	0 🗆	0.0%	Hydrophytic Veget			
6.	0 🗆	0.0%	Dominance T Prevalence In			
7.	0	0.0%	_			
8.	0	0.0%			s ¹ (Provide s eparate sheet	
9.	_0 _	0.0%	Problematic I	Hydrophytic \	Vegetation 1	(Explain)
10. 11.	_0	0.0%		, , ,		
		0.0%	¹ Indicators of hy	dria cail and	watland bude	ology must
	100 = 7	Total Cover	be present, unless			
Woodv Vine Stratum (Plot size:)	. —					
1 2.		0.0%	Undroub			
۷-	_0	0.0%	Hydrophytic Vegetation	· · · ·		
		Total Cover	Present? Y	'es O No	•	
% Bare Ground in Herb Stratum: 0 % Co	over of Biotic Cr	rust_0				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	_Tvpe ¹	Loc2	Texture	Remarks
0-20	10YR 4/3	100%					Loam	
	-							
				-				
				-				
Evno: C. Concord	tration D. Donlation		Matrix CS Cayoro	d or Coato	d Cand Crain	s 21 ocot	tion: PL=Pore Lining. M=Matrix	
<u> </u>	cators: (Applicab					is -Lucai		
Histosol (A1)	cators: (Applicab	ile to all ERRS	Sandy Redox (Indicators for Problemati	c Hydric Soils:
Histic Epipedo	nn (A2)		Stripped Matrix				1 cm Muck (A9) (LRR C)	
Black Histic (A			Loamy Mucky		1)		2 cm Muck (A10) (LRR B)
Hydrogen Sulf	•						Reduced Vertic (F18)	
	ers (A5) (LRR C)		Loamy Gleyed Depleted Matri)		Red Parent Material (TF2	
1 cm Muck (A			Redox Dark Su				Other (Explain in Remark	(S)
Depleted Belo	w Dark Surface (A1	1)			-7\			
Thick Dark Su			Depleted Dark Redox depress		-1)			
Sandy Muck M	lineral (S1)		•				³ Indicators of hydrophytic v	
Sandy Gleyed	Matrix (S4)		Vernal Pools (I	-9)			wetland hydrology must b	pe present.
estrictive Layer	r (if present):							
Type:	(p , .							
	:						Hydric Soil Present? Ye	s O No 💿
Remarks:								
	nydric soil.							
	Tydire 30ii.							
	Tyune son.							
ydrology								
ydrology /etland Hydrolo		one required;	check all that app	oly)			Secondary Indicators	s (2 or more required)
ydrology etland Hydrolo	ogy Indicators: ors (minimum of c	one required;	check all that app				Secondary Indicators Water Marks (B1) (
ydrology /etland Hydrolo	ogy Indicators: ors (minimum of o	one required;		11)				Riverine)
ydrology etland Hydrolo rimary Indicato	ogy Indicators: ors (minimum of o	one required;	Salt Crust (B	11) (B12)	(B13)		Water Marks (B1) (Riverine) (B2) (Riverine)
ydrology Vetland Hydrolo rimary Indicato Surface Water High Water Ta	ogy Indicators: ors (minimum of o	one required;	Salt Crust (B	11) (B12) rtebrates (Water Marks (B1) (Sediment Deposits	Riverine) (B2) (Riverine) Riverine)
ydrology Yetland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (ogy Indicators: ors (minimum of or (A1) able (A2)		Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ulfide Odor		Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns	Riverine) (B2) (Riverine) Riverine) (B10)
ydrology Yetland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	ogy Indicators: ors (minimum of ortification) (A1) able (A2) (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ulfide Odor zospheres	(C1) along Living	Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2)
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roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/	Utah Sampling Date: 14-Oct-15
applicant/Owner: Utah Department of Transportation		State: UT Sampling Point: 33
nvestigator(s): Todd Sherman	Section, Township	o, Range: S 9 T 9S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concav	/e, convex, none): flat
ubregion (LRR): LRR D	Lat.: 439562	Long.: 4433738 Datum: NAD83
	107002	NWI classification: Upland
oil Map Unit Name: <u>Vinevard fine sandy loam</u> e climatic/hydrologic conditions on the site typical for	this time of year? Yes No	
	¬	
	_	F
re Vegetation □ , Soil □ , or Hydrology □ Summary of Findings - Attach site mai	_	needed, explain any answers in Remarks.) ocations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes • No		·
Hydric Soil Present? Yes O No 🖲		Van O Na 📵
Wetland Hydrology Present? Yes O No 🗨	within a Wetl	and? Tes O NO G
years of imagery. It appears that the addry at the time of the delineation, and at	acent ditch needed cleaning, and it ha the same elevation as the adjacent up	recent 2105 Google imagery, but was never wet in previous and inundated this area for a short period. It was completely bland vegetation.
VEGETATION - Use scientific names of	olants. Dominant ————Species? ———	
(5)	Absolute Rel.Strat. Indicat	
	% Cover Cover Status	Number of Dominant Species
1 2.	0 0.0%	That are OBL, FACW, or FAC:1 (A)
3.		Total Number of Dominant
4.	0 0.0%	Species Across All Strata: (B)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
1	0 0.0%	Prevalence Index worksheet:
2	0 0.0%	Total % Cover of: Multiply by:
3	0 0.0%	OBL species 30 x 1 = 30
4. 5.	0	FACW species5 x 2 =10
5. 	0	FAC species0 x 3 =0
(District o	0 = Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:)		UPL species $0 \times 5 = 0$
Carex nebrascensis Muhlenbergia asperifolia	30 № 85.7% OBL	Column Totals: <u>35</u> (A) <u>40</u> (B)
3.	5 14.3% FACW 0 0.0%	Prevalence Index = B/A = 1.143
4.	0 0.0%	Hydrophytic Vegetation Indicators:
5.	0 0.0%	✓ Dominance Test is > 50%
6.	0 0.0%	Prevalence Index is ≤3.0 ¹
7.	0	Morphological Adaptations ¹ (Provide supporting
8. 9.	0	data in Remarks or on a separate sheet)
10.	0	 Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0	_
		Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woody Vine Stratum (Plot size:)		
1 2.	0 0.0%	
۷	0	Hydrophytic Vegetation
9/ Para Cround in Harb Stratum.	0 = Total Cover % Cover of Biotic Crust 0	Present? Yes No
% Bare Ground in Herb Stratum: 0		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Red	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/2	100%					Loam	
				-				
				-				
Tumos C. Como	controtion D. Donlatio	n DM Daduase	Matrix CC Cayara	d or Coata	d Cond Crair	21 000	tion. DI Doro Lining M Matrix	
"	•					is -Locat	tion: PL=Pore Lining. M=Matrix	2
_	ndicators: (Applicat	DIE TO AII LKKS					Indicators for Problemati	: Hydric Soils:3
│ Histosol (A │ Histic Epipe	•		Sandy Redox				1 cm Muck (A9) (LRR C)	
Black Histic			Stripped Matri		1)		2 cm Muck (A10) (LRR B)
7	Sulfide (A4)		Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed)		Red Parent Material (TF2	•
_	(A9) (LRR D)		Depleted Matr				Other (Explain in Remark	as)
Depleted B	Below Dark Surface (A1	1)			-7\			
_	Surface (A12)		Depleted Dark Redox depress		- /)			
Sandy Muc	k Mineral (S1)		Vernal Pools (³ Indicators of hydrophytic v	
Sandy Gley	yed Matrix (S4)		vernai Poois (-9)			wetland hydrology must b	e present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Ye	s O No 💿
Remarks:								
ydrology								
etland Hydr	ology Indicators:							
rimary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicators	(2 or more required)
Surface Wa	ater (A1)		Salt Crust (E	11)			Water Marks (B1) (Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates ((B13)		Drift Deposits (B3)	Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonrive	rine)	Oxidized Rh	zospheres	along Living	Roots (C3	B) Dry Season Water	Γable (C2)
Drift depos	sits (B3) (Noneriverine))	Presence of	Reduced I	ron (C4)		Crayfish Burrows (
Surface Soi	il Cracks (B6)		Recent Iron	Reduction	in Plowed So	oils (C6)	Saturation Visible of	n Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	jery (B7)	☐ Thin Muck S	urface (C7))		Shallow Aquitard (I	0 ,
☐ Water-Staii	ned Leaves (B9)		Other (Expla	in in Rema	arks)		✓ FAC-neutral Test (I	
eld Observa	tions:							·
	V	○ No ●	Depth (inc	hes):				
irfaco Mator E			•					
	esent? Yes		Depth (inc	hes):		Wetla	and Hydrology Present?	es O No 💿
ater Table Pre		\sim	Donth (inc	hes):		Wetla	and right ology Fresent:	C3 © 110 ©
/ater Table Pre aturation Pres		O No 💿	Depth (inc					
later Table Pre aturation Presoncludes capilla				tos, prev	ious inspec	tions), if	available:	
	ary fringe) Yes			itos, prev	ious inspec	tions), if	available:	
Vater Table Presaturation Presancludes capilla Describe Reco	ary fringe) Yes orded Data (stream	gauge, monit		tos, prev	ious inspec	tions), if	available:	
Vater Table Presaturation Presancludes capilla Describe Reco	ary fringe) Yes	gauge, monit		tos, prev	ious inspec	tions), if	available:	
ater Table Presidenturation Presidentudes capillates capillates Recommendates Recommendates:	ary fringe) Yes orded Data (stream	gauge, monit		itos, prev	ious inspec	tions), if	available:	

roject/Site: I-15 Payson Main Street Interchange EIS		ity/County: Payson/Uta	11	Sampl	ing Date: 14-0	Oct-15
pplicant/Owner: Utah Department of Transportation			State: UT	San	npling Point:_	34
nvestigator(s): Todd Sherman		Section, Township, R	ange: S 9	T_9S	R 2E	
Landform (hillslope, terrace, etc.): Valley bottom		Local relief (concave,	convex, none): CC	ncave	Slope:	1.0 % / 0
ubregion (LRR): LRR D	Lat.: 438	3863	Long.: 4434102	2	Datur	m: NAD83
pil Map Unit Name: Ironton loam			NWI	classification	—— າ: PEM	
e climatic/hydrologic conditions on the site typical for th	is time of year?	Yes No	(If no, exp	lain in Remar	ks.)	
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌	significantly of	listurbed? Are "N	lormal Circumstar	nces" present	? Yes ●	No \bigcirc
re Vegetation, Soil, or Hydrology	naturally prob	olematic? (If ne	eded, explain any	answers in R	emarks.)	
Summary of Findings - Attach site map s	howing sa					atures etc
Hydrophytic Vegetation Present? Yes ● No ○	Tio Willig Su			, , , , , , , , , , , , , , , , , , ,		
Hydric Soil Present? Yes • No		Is the Sampled A				
Wetland Hydrology Present? Yes No		within a Wetland	_{d?} Yes 💿 No	\circ		
Remarks: Palustrine emergent wetland created by a g	round water see	ep.				
VEGETATION - Use scientific names of pla	ints.	Dominant Species?				
(5)	Absolute	Rel.Strat. Indicator	Dominance Tes	t worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Domir		2	(4)
1			That are OBL, FA	CW, or FAC:	3	(A)
3.	0	0.0%	Total Number of		2	(D)
4.		0.0%	Species Across Al	i Strata:	3	(B)
Sapling/Shrub Stratum (Plot size:)	0	= Total Cover	Percent of dom That Are OBL, F)% (A/B)
1	0	0.0%	Prevalence Inde	x worksheet	:	
2	0	0.0%	Total % C	Cover of:	Multiply by:	
3.	0	0.0%	OBL species	90	x 1 =	90
4. 5.		0.0%	FACW species	10	x 2 =	20
J		0.0%	FAC species	0	x 3 =	0
Harb Charbana (Plot size:	0	= Total Cover	FACU species	0	x 4 =	0
Herb Stratum (Plot size:) 1. Eleocharis palustris	50	✓ 50.0% OBL	UPL species	0	x 5 =	0
2 Nacturtium officinals	20	✓ 20.0% OBL	Column Totals	s: <u>100</u>	(A)	110 (B)
3. Schoenoplectus pungens		✓ 20.0% OBL	Prevalence	Index = B/A	=1.10	00_
4. Polypogon monspeliensis	10	10.0% FACW	Hydrophytic Ve	getation Indic	cators:	
5	0	0.0%		e Test is > 50		
6.		0.0%	✓ Prevalence	Index is ≤3.	.o ¹	
7. 8.		0.0%			ons ¹ (Provide	
9.					separate shee	
10.		0.0%	Problemati	ic Hydrophyti	c Vegetation ¹	(Explain)
11.		0.0%				
		= Total Cover	1 Indicators of			
Woody Vine Stratum (Plot size:)			be present, unl	ess disturbed	or problemat	ic.
1	0	0.0%				
2.	0	0.0%	Hydrophytic			
	0	= Total Cover	Vegetation Present?	Yes N	lo O	
			1			
% Bare Ground in Herb Stratum: 0 %	Cover of Biotic	: Crust ₀				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (De	scribe to	the depth n	eeded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth (inches)	Color (Matrix moist)			dox Featu	res Tvpe 1	Loc2	Texture	Domarko
(inches) 0-5	10YR	3/2	<u>%</u> 100%	Color (moist)	<u>%</u>	TVDE	LUC-	Loam	Remarks
5-20	10YR	3/1	100%				-	Loam	
5-20	TOTK		100%					LOGIII	
									
					-				
							.—		
71		•					ins ² Loca	tion: PL=Pore Lining. M=Ma	
		(Applicat	le to all LRI	Rs, unless otherwis)		Indicators for Proble	
Histosol (Sandy Redox (1 cm Muck (A9) (LF	·
Black Hist	oedon (A2)			Stripped Matri				2 cm Muck (A10) (L	•
	Sulfide (A4)			Loamy Mucky				Reduced Vertic (F1	•
_ ` `	Layers (A5) (LRR C)		Loamy Gleyed		2)		Red Parent Materia	, ,
_	k (A9) (LRR [Depleted Matr	` ,			✓ Other (Explain in R	emarks)
	Below Dark S		1)	Redox Dark Su					
Thick Dar	k Surface (A1	2)		Depleted Dark		F/)			
Sandy Mu	ck Mineral (S	1)		Redox depress Vernal Pools (³ Indicators of hydroph	ytic vegetation and
Sandy Gle	yed Matrix (S	64)		vernai Poois (i	F9)			wetland hydrology n	nust be present.
Restrictive L	ayer (if pres	sent):							
Type:		•							
Depth (inc	nes):							Hydric Soil Present?	Yes ● No ○
Remarks:									
Soils do not e hydric soil.	xhibit any t	ypical hyd	dric soil indi	cators, but the soils	are satu	ırated at th	ne surface	during the dry season, m	eeting the definition of a
Hydrology	/ /								
Wetland Hyd	rology Indi	cators:							
_			nne require	d; check all that app	alv)			Secondary India	cators (2 or more required)
Surface W		iiiidiii oi v	one required	Salt Crust (B					(B1) (Riverine)
✓ High Wate	er Table (A2)			Biotic Crust	(B12)				posits (B2) (Riverine)
✓ Saturation	ı (A3)			Aquatic Inve	rtebrates	(B13)			s (B3) Riverine)
☐ Water Ma	rks (B1) (Nor	riverine)		Hydrogen Su	ulfide Odo	r (C1)		Drainage Patt	
Sediment	Deposits (B2) (Nonrive	rine)	Oxidized Rhi	izospheres	along Livin	g Roots (C3	B) Dry Season W	Vater Table (C2)
☐ Drift depo	sits (B3) (No	neriverine)		Presence of	Reduced	Iron (C4)		Crayfish Burro	ows (C8)
Surface So	oil Cracks (B6	o)		Recent Iron	Reduction	in Plowed	Soils (C6)	Saturation Vis	sible on Aerial Imagery (C9)
☐ Inundatio	n Visible on A	Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7	')		Shallow Aquit	ard (D3)
Water-Sta	ined Leaves	(B9)		Other (Expla	in in Rem	arks)		▼ FAC-neutral T	est (D5)
Field Observ	ations:								
Surface Water	Present?	Yes	O No 🤄	Depth (inc	hes):				
Water Table P	resent?	Yes	● No C) Depth (inc	hes):	4			
Saturation Pre (includes capil		Yes				0	Wetla	and Hydrology Present?	Yes ● No ○
Describe Rec	orded Data	(stream	gauge, mon	itor well, aerial pho	otos, prev	vious inspe	ections), if	available:	
Remarks:									
	a caturata	lat tho o	ırfaco with	a challow water tab	ام ا ما	tad balaw	an obvious	aroundwater seen	
THE SUITS WEI	o saturate0	י מו נווט 30	arace Willia	a siidiiow watei tab	ic. LUCA	ieu beiUW	an obvious	s groundwater seep.	

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/	Utah	Samplin	g Date: 14-0	ot-15
pplicant/Owner: Utah Department of Transportation		State: UT	Samp	oling Point:	35
nvestigator(s): Todd Sherman	Section, Township	, Range: S 9	T_9S	R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concav	ve, convex, none): flat		Slope:	1.0 % / 0
ubregion (LRR): LRR D	Lat.: 438864	Long.: 4434093		Datum	n: NAD83
oil Map Unit Name: Ironton loam		NWI c	lassification:	Upland	
e climatic/hydrologic conditions on the site typical for	this time of year? Yes N	o (If no, expla	in in Remark	s.)	
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🛭	significantly disturbed? Are	"Normal Circumstanc	es" present?	Yes	No \bigcirc
re Vegetation, Soil, or Hydrology _	naturally problematic? (If	needed, explain any a	nswers in Re	marks.)	
Summary of Findings - Attach site map				-	tures, etc.
Hydrophytic Vegetation Present? Yes No No			<u> </u>		
Hydric Soil Present? Yes O No 🗨		Vac O Na	•		
Wetland Hydrology Present? Yes O No 🗨	within a Wetl	and?	0		
Remarks: Upland area adjacent to SP-34.					
VEGETATION - Use scientific names of p	olants. Dominant Species?				
- (District	Absolute Rel.Strat. Indica		worksheet:		
Tree Stratum (Plot size:)	<u>% Cover Cover Status</u> 0 □ 0.0%	Number of Domina		0	(4)
1 2.		That are OBL, FAC	V, OF FAC:	0	(A)
3.	0 0.0%	Total Number of Do Species Across All S		2	(B)
4.	0 0.0%	Species Across Air s	otrata.		(Б)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of domin That Are OBL, FA		0.0%	(A/B)
1	0 0.0%	Prevalence Index	worksheet:		
2	0	Total % Co	ver of:	Multiply by:	
3	0 0.0%	OBL species	0	x 1 =	0
4. 5.	0 0.0%	FACW species	0	x 2 =	0
<u> </u>	0	_ FAC species			0
Herb Stratum (Plot size:)	0 = Total Cover	FACU species			00
1. Festuca pratensis	80 🗹 80.0% FACU	UPL species	0	x 5 =	0
2. Carduus nutans	20 20 000	Column Totals:	100	(A) <u>4</u>	<u>00</u> (B)
3.		Prevalence I	ndex = B/A =	4.00	0_
4	0	Hydrophytic Vege	tation Indica	tors:	
5	0		Test is > 50%		
6. 7.	0	Prevalence I	ndex is ≤3.0	1	
8.			al Adaptation		
9.	0 0.0%		arks or on a s		
10.	0 0.0%	—	Hydrophytic	Vegetation	(Explain)
11.	0 0.0%				
	100 = Total Cover	1 Indicators of h			
Woodv Vine Stratum (Plot size:)		Do present, unios	o distal bod o	n probleman	.
1	0 0.0%	_			
2	0	Hydrophytic Vegetation			
	0 = Total Cover	Present?	Yes 🔾 No	•	
	0/ 0f Bi-ti- 0t				
% Bare Ground in Herb Stratum: 0	% Cover of Biotic Crust 0	_			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Hydrogen Sutified (A1) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Strictive Layer (If present): Type: Hydric Soil Present? Yes No									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Hydrogen Sutified (A1) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Strictive Layer (If present): Type: Hydric Soil Present? Yes No									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Isidso (Art) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S1) Cosmy Gleyed Matrix (F2) Reduced Vertic (F18) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F2) Redox depressions (F8) Sandy Muck Mineral (S1) Strictive Layer (if present): Hydric Soil Present? Yes No					-				
ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. DI Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4) Clarmy (Gleyed Matrix (F2) Red Parent Material (F72) Red	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Hydric Soil Present?	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • • •							
Permarks: In indicators of hydric soil. In indicators of hydric soil. In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A2) Sulface Water (A3) Sulface (A3) Sulface Water (A3) Sul		nes).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water (A2) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Priff Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Priff Deposits (B3) Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Drainage Patterns (B10) D	ydrology	<i>'</i>							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

Project/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 14-Oct	-15
Applicant/Owner: Utah Department of Transportation	State: UT Sampling Point:	36
Investigator(s): Todd Sherman	Section, Township, Range: S 4 T 9S R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): CONCAVE Slope:	
Subregion (LRR): LRR D	Lat.: 438846 Long.: 4434271 Datum:	NAD83
soil Map Unit Name: Ironton loam	NWI classification: PEM	
re climatic/hydrologic conditions on the site typical for t		
Are Vegetation, Soil, or Hydrology	(**************************************	No O
	, p	.0
Are Vegetation $\;\;\sqcup\;\;$, Soil $\;\;\sqcup\;\;$, or Hydrology $\;\;\sqcup\;$ Summary of Findings - Attach site map	naturally problematic? (If needed, explain any answers in Remarks.) nowing sampling point locations, transects, important feati	ures, etc.
Hydrophytic Vegetation Present? Yes No		<u> </u>
Hydric Soil Present? Yes No	Is the Sampled Area Within a Westand? Yes No	
Wetland Hydrology Present? Yes No	within a Wetland? Yes No	
	aund water coop	
Palustrine emergent wetland created by a	ound water seep.	
VEGETATION - Use scientific names of pl	Nts. Dominant ————Species?	
	Absolute Rel.Strat. Indicator Dominance Test worksheet:	
1.	% Cover Cover Status Number of Dominant Species 0 0.0% That are OBL FACW, or FAC: 3	(4)
·		(A)
3.	Total Number of Dominant	(D)
4.	Species Across All Strata: 3	(B)
	Percent of dominant Species	(A /D)
Sapling/Shrub Stratum (Plot size:)	That Are OBL, FACW, or FAC: 100.0%	(A/B)
1	0 0.0% Prevalence Index worksheet:	
2		
3	00.0% OBL species100 x 1 =100)
4. 5.	0 \square FACW species0 x 2 =0	_
J	- 0 $0.0%$ FAC species 0 x 3 = 0	
(Plot cizo:	0 = Total Cover FACU species 0 x 4 = 0	_
Herb Stratum (Plot size:)		
Schoenoplectus americanus Eleocharis palustris	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	(B)
3. Carex nebrascensis	20 ✓ 20.0% OBL	
4.	0 0.0% Hydrophytic Vegetation Indicators:	•
5.		
6.	0 0.0% Prevalence Index is ≤3.0 1	
7.	0	innortina
8. 9.	data in Remarks or on a separate sheet)	.pp=9
10.	0	Explain)
11.		
		logy must
	be present, unless disturbed or problematic.	
1.	0	
2.	0 0.0% Hydrophytic	
	0 = Total Cover Vegetation Present? Yes No	
	FIGSCIIL:	
% Bare Ground in Herb Stratum: ∩	Cover of Biotic Crust 0	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (De	scribe to	the depth n	eeded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth	Color (Matrix			dox Featu		1002	Tourtumo	Down only
(inches) 0-5	10YR	moist) 2/2	<u>%</u> 100%	Color (moist)	<u>%</u>	_Tvpe ¹	Loc ²	Texture	Remarks
5-20	10YR	3/1	100%					Loam	
J-20								Loan	
								_	
					-				
1 Type: C=Con		 =Depletion	n RM=Reduc	ed Matrix, CS=Covere	d or Coate	ed Sand Gra	ins 2l oca	tion: PL=Pore Lining. M=Ma	trix
3.		•		Rs, unless otherwis				Indicators for Proble	
Histosol (A		(.pp		Sandy Redox (,		1 cm Muck (A9) (LF	
	pedon (A2)			Stripped Matri				2 cm Muck (A10) (L	•
Black Hist	ic (A3)			Loamy Mucky		1)		Reduced Vertic (F1)	·
Hydrogen	Sulfide (A4)			Loamy Gleyed				Red Parent Materia	
l —	Layers (A5) (Depleted Matr		•		✓ Other (Explain in R	, ,
l <u>—</u>	k (A9) (LRR [Redox Dark Su	urface (F6))		Other (Explain in te	ernarksy
	Below Dark S	•	1)	Depleted Dark	Surface (F7)			
_	k Surface (A1	•		Redox depress	sions (F8)			3	
l ´	ck Mineral (S	•		Vernal Pools (F9)			³ Indicators of hydroph wetland hydrology n	ytic vegetation and oust be present
	yed Matrix (S								
Restrictive La	ayer (if pres	sent):							
Type:								Hydric Soil Present?	Yes ● No ○
Depth (incl	hes):							riyuric 30ii Fresent:	les 🕓 No 🔾
Remarks:									
	xhibit any t	ypical hyd	dric soil indi	cators, but the soils	are satu	ırated at th	ne surface	during the dry season, m	eeting the definition of a
hydric soil.									
Hydrology									
Wetland Hyd	rology Indi	cators:							
		imum of o	one require	d; check all that app				Secondary Indic	cators (2 or more required)
Surface W				Salt Crust (B	•				(B1) (Riverine)
✓ High Wate				☐ Biotic Crust		()			posits (B2) (Riverine)
✓ Saturation				Aquatic Inve					(B3) Riverine)
	rks (B1) (Nor		dma)	☐ Hydrogen St			a De -+: /01	Drainage Patt	
	Deposits (B2			Oxidized Rhi	•	Ü	ig Roots (C3		/ater Table (C2)
	osits (B3) (No oil Cracks (B6			Presence of		, ,	Soils (C()	Crayfish Burro	• •
	•	•	on. (P7)	Recent Iron Thin Muck S			SOIIS (C6)		sible on Aerial Imagery (C9)
	n Visible on A	-	ery (B7)		•	•		☐ Shallow Aquit ✓ FAC-neutral T	
	ined Leaves	(D9)		U Other (Expla	iiii iii Reiii	arks)		✓ FAC-neutral T	est (D5)
Field Observa		Yes	O No @)	hoo).				
Surface Water				' '	nes):		_		
Water Table Pr		Yes	● No C	Depth (inc	hes):	8	- Wotl	and Hydrology Present?	Yes ● No ○
Saturation Pres (includes capill		Yes	No C	Depth (inc	hes):	2	_	and mydrology Fresent:	103 0 110 0
		(stream	gauge, mor	itor well, aerial pho	otos, prev	vious inspe	ections), if	available:	
Remarks:									
The soils wer	re saturated	I near the	surface wit	h a shallow water t	able. Lo	cated belo	w an obvid	ous groundwater seep.	

oject/Site: I-15 Payson Main Street Interchange EIS	City/County: Paysor	n/Utan	Sampling	Date: 14-0c	t-15
oplicant/Owner: Utah Department of Transportation		State: UT	Samplir	ng Point:	37
nvestigator(s): Todd Sherman	Section, Townsh	ip, Range: S 4	T_9S F	2E	_
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (conc	ave, convex, none): flat		Slope:	1.0 % / 0
ubregion (LRR): LRR D	Lat .: 438851	Long.: 4434265		Datum:	NAD83
oil Map Unit Name: Ironton loam		NWI o	lassification: U	— oland	
climatic/hydrologic conditions on the site typical for thi	s time of year? Yes Yes	No (If no, expla	in in Remarks.)		
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌	significantly disturbed?	re "Normal Circumstand	es" present?	Yes	No \bigcirc
re Vegetation , Soil , or Hydrology	naturally problematic? (If needed, explain any a	nswers in Rema	ırks.)	
ummary of Findings - Attach site map s	howing sampling point	locations, transe	ects, impor	tant feat	ures, etc.
Hydrophytic Vegetation Present? Yes O No No	Is the Samp	aled Area			
Hydric Soil Present? Yes No •		Vaa O Na	(•)		
Netland Hydrology Present? Yes ○ No ●	within a We	etland?	0		
Remarks: Upland area adjacent to SP-36.					
opiana area adjucent to or so.					
VEGETATION - Use scientific names of pla	Nts. Dominant Species?				
- Oliver in the control of the contr	Absolute Rel.Strat. Indic	1	worksheet:		
Tree Stratum (Plot size:)	<u>% Cover Cover Statu</u> 0 □ 0.0%	Number of Domina		1	(4)
1		That are OBL, FAC	N, or FAC:	1_	_ (A)
3.	0 0.0%	Total Number of D		2	(D)
4.	0 0.0%	Species Across All S	Strata:	2	_ (B)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of domir That Are OBL, FA		50.0%	(A/B)
1.	0 0.0%	Prevalence Index	worksheet:		
2.	0 0.0%	Total % Co		Itiply by:	
3.	0 0.0%	OBL species			<u> </u>
4.	0 0.0%	FACW species	0x	2 =0	
5	0	FAC species	<u>50</u> x	3 = <u>15</u>	0
(No. 1 constant)	0 = Total Cover	FACU species	50 x	4 =	0
Herb Stratum (Plot size:)	🗖	UPL speci es	x	5 =0	
1. Festuca pratensis	50 ✓ 50.0% FACU 50 ✓ 50.0% FACU	Column Totals:	100 (A)35	<u>0</u> (B)
2. Poa pratensis 3.		Prevalence I	ndex = B/A =	3.500	
4.	0 0.0%	Hydrophytic Vege			
5.	0 0.0%		Test is > 50%	3.	
6.	0 0.0%		Index is ≤3.0 ¹		
7.	0		al Adaptations	Provide s	upporting
8. 9.	0	data in Rem	arks or on a sep	arate sheet)
10.	0	Problematic	Hydrophytic Ve	getation ¹ (Explain)
11.	0				
	0 0.0%	1 Indicators of h	ydric soil and w	etland hydr	ology must
Woody Vine Stratum (Plot size:)	100 = Total Cover	be present, unles			
	0				
1	0 0.0%				
	0 = Total Cover	Vogotation	Yes O No G		
		Fresent?	. 35 - 110 -		
% Bare Ground in Herb Stratum: 0 %	Cover of Biotic Crust 0				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2	100%					Loam	
				-			-	
				-				
Typo: C-Con	contration D_Donlation		d Matrix, CS_Covere	d or Coate	d Sand Crair	ns 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					is -Lucat	-	
Ť		ie to all LRR						oblematic Hydric Soils:3
J Histosol (/J Histic Epip	•		Sandy Redox (1 cm Muck (A9	
Black Hist			Stripped Matrix		1)		2 cm Muck (A1	
=	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	, ,
	_ayers (A5) (LRR C)		Loamy Gleyed		:)		Red Parent Mat	, ,
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		- /)			
Sandy Mu	ck Mineral (S1)		Redox depress				3 Indicators of hydromath	rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	gy must be present.
estrictive La	yer (if present):							
	J. (1)							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	? Yes ○ No •
Depth (incl	nes): of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No O
Depth (incl demarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: Dindicators Dindicators Ydrology Vetland Hyd	of hydric soil.	one required	check all that app	oly)			,	? Yes No •
Depth (included like the property of the prope	of hydric soil. / rology Indicators: cators (minimum of c	one required	: check all that app				_Secondary I	
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of c	one required		11)			Secondary I	ndicators (2 or more required)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12)	(B13)		Secondary I	ndicators (2 or more required) irks (B1) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12) rtebrates (Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indi Surface W High Wate Saturation Water Mai	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (includer land land) Depth (includer l	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Wate Saturation Water Mai Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) (ks (B1) (Nonriverine) Deposits (B2) (Nonriver	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I	· (C1) along Living ron (C4)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation Water Man Sediment Drift depo Surface Scr	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso Crayfish E Saturatio	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (incl demarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface So Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imag	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine) ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Remarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observa	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit (Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incle temarks: poindicators of indicators of indica	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Image ined Leaves (B9) ations: Present? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturation Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Dydrology Vetland Hyd Primary India Surface W High Water Saturation Water Sta Inundation Water-Sta Vield Observation Water Table Presented Presented Presented Staturation Presented Semarks Staturation Presented Presented Presented Presented Presented Presented Presented P	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No • No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)	pils (C6)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators Sydrology Vetland Hyd Primary India Surface Water Man Water-Sta Sturface Water Vater Table Presented on the staturation Presented Sturface Staturation Presented Sturface Water Table Presented Sturface Staturation Presented Sturface Staturation Presented Sturface Staturation Presented Sturface Staturation Presented S	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) oil Cracks (B6) on Visible on Aerial Imagonined Leaves (B9) ations: Present? Yes esent? Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: o indicators lydrology Vetland Hyd Primary India Surface W High Water Saturation Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta Field Observation Surface Water Vater Table Prosaturation Presincludes capill Describe Reco	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation Water Table Preaturation Presencludes capill Describe Rec	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observationation Water Table Preservationation Presincludes capill Describe Recommarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes ary fringe) Yes	ery (B7) No No No No qauge, monit	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	along Living along Living ron (C4) in Plowed So) arks)	oils (C6) Wetla	Secondary I Water Ma Sediment Drift Dep Drainage Crayfish E Saturatio Shallow A FAC-neut	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9) equitard (D3) ral Test (D5)

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 14-Oct-15	
pplicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 3	38
nvestigator(s): Todd Sherman	Section, Township, Range: S 4 T 9S R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): concave Slope: 1.0	%/ 0.0
ubregion (LRR): LRR D		D83
oil Map Unit Name: Ironton loam	NWI classification: PEM	
e climatic/hydrologic conditions on the site typical for thi		
re Vegetation . , Soil . , or Hydrology .	significantly disturbed? Are "Normal Circumstances" present? Yes No	
	,	
re Vegetation U , Soil U , or Hydrology U Summary of Findings - Attach site map s	naturally problematic? (If needed, explain any answers in Remarks.) Owing sampling point locations, transects, important feature:	s, etc.
Hydrophytic Vegetation Present? Yes • No		
Hydric Soil Present? Yes No	Is the Sampled Area Within a Watland? Yes No	
Wetland Hydrology Present? Yes No	within a Wetland?	
Remarks: Palustrine emergent wetland created by a gr	und water coop	
Palustime emergent wettand created by a gr	unu water seep.	
VEGETATION - Use scientific names of pla	ts. Dominant	
	Species? Absolute Rel.Strat. Indicator Dominance Test worksheet:	
Tree Stratum (Plot size:)	% Cover Cover Status Number of Dominant Species	
1	O That are OBL, FACW, or FAC:	(A)
2		
3	Species Across All Strata:	(B)
4		
Sapling/Shrub Stratum (Plot size:)	= Total Cover Percent of dominant Species That Are OBL, FACW, or FAC:100.0%	(A/B)
1.	_00.0%Prevalence Index worksheet:	
2.	0 0.0% Total % Cover of: Multiply by:	
3.	0 0.0% OBL species 95 x 1 = 95	
4.	0	
5.		
	0 = Total Cover FACU species $0 \times 4 = 0$	
Herb Stratum (Plot size:)	UPL species x 5 =0	
1. Schoenoplectus americanus	50 <u>V 50.0% OBL</u> Column Totals: 100 (A) 105	(B)
2. Eleocharis palustris	40	ζ- /
Polypogon monspeliensis Ranunculus sceleratus	5 5.0% FACW Prevalence Index = B/A = 1.050	
5.	5 OBL Hydrophytic Vegetation Indicators: O □ 0.0% Pominance Test is > 50%	
6.	0	
7.	0 00%	
8.	Morphological Adaptations ¹ (Provide suppor data in Remarks or on a separate sheet)	rting
9.	- 0 0.0% Problematic Hydrophytic Vegetation 1 (Expla	nin)
10.	0 0.0%)
11.	0	
	100 = Total Cover Indicators of hydric soil and wetland hydrology be present, unless disturbed or problematic.	must
Woodv Vine Stratum (Plot size:)		
1		
2	O O0% Hydrophytic Vegetation	
	Cover of Biotic Crust O	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Descri	be to the	depth need	ed to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth		trix			lox Featu				
(inches)	Color (mo			Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture	Remarks
0-8	10YR	2/2 10	00%					Loam	
8-20	10YR	3/1 10	00%					Loam	
	-								
1 Type: C=Con	centration. D=De	epletion. RI	/I=Reduced I	Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matr	ix
				unless otherwis				Indicators for Problem	_
Histosol (A	-	•	[Sandy Redox (1 cm Muck (A9) (LRR	•
Histic Epip	•			Stripped Matri:				2 cm Muck (A10) (LR	· ·
Black Histi	ic (A3)			Loamy Mucky		1)		Reduced Vertic (F18)	,
Hydrogen	Sulfide (A4)			Loamy Gleyed				Red Parent Material (
Stratified I	Layers (A5) (LRR	C)	[Depleted Matri				✓ Other (Explain in Ren	· ·
1 cm Muck	k (A9) (LRR D)		[Redox Dark Su				Other (Explain in Ker	nuiks)
Depleted F	Below Dark Surfa	ice (A11)	[Depleted Dark	Surface (I	F7)			
_	k Surface (A12)		[Redox depress				2	
l — ,	ck Mineral (S1)		[Vernal Pools (I				Indicators of hydrophyt wetland hydrology mu	ic vegetation and
Sandy Gle	yed Matrix (S4)							wettand frydrology frid	ist be present.
Restrictive La	ayer (if present	t):							
Type:									
Depth (inch	nes):			_				Hydric Soil Present?	Yes ● No ○
Remarks:									
Soils do not e	xhibit any typic	al hydric	soil indicate	ors, but the soils	are satu	rated at th	ne surface	during the dry season, mee	eting the definition of a
hydric soil.	3 31	,		,				3 3	3
Hydrology	/								
	rology Indicate	ore.							
					. 1. 4			Consequence locality	
Surface W		m or one	requirea; c	heck all that app Salt Crust (B					tors (2 or more required)
✓ Surface W	,				•			Water Marks (B	, , , , , , , , , , , , , , , , , , ,
✓ Flight Water ✓ Saturation				Biotic Crust		/D12\			sits (B2) (Riverine)
	rks (B1) (Nonrive	rino)		Aquatic Inve				Drift Deposits (,
_	Deposits (B2) (N			Oxidized Rhi			a Poots (C2	Drainage Patter	
	sits (B3) (Noneri			Presence of	•	-	g Roots (Cs	,	` '
	oil Cracks (B6)	verifie)		Recent Iron			Soils (CA)	Crayfish Burrow	ole on Aerial Imagery (C9)
	n Visible on Aeria	ıl İmagery i	R7)	Thin Muck S			30113 (CO)	Shallow Aquitar	
	ined Leaves (B9)		D7)	Other (Expla				FAC-neutral Tes	
				Other (Expla		urks)		TAC-fleutial Tes	st (D3)
Field Observa		Yes	No O	D		4			
Surface Water	Present?			Depth (inc	nes):	1	_		
Water Table Pr	resent?	Yes	No O	Depth (inc	hes):	0			Yes ● No ○
Saturation Pres		Yes	No \bigcirc	Depth (inc	hes):	0	- Wetla	and Hydrology Present?	res 🙂 No 🔾
(includes capill		ream dau	ne monitor	well, aerial pho	itos nrev	inus insna	ctions) if	available:	
PC3CLINE KEC	oraca Data (St	i carri yau	, monitul	won, acriai pilu	ros, prev	ious irispe	ouona), II	available.	
Remarks:									
	o loundatad								
The soils wer	e munaatea.								

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/U	tah	Sampl	ing Date: <u>14-</u> 0	Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT	San	npling Point:_	39
nvestigator(s): Todd Sherman	Section, Township,	Range: S 4	T _9S	R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave	e, convex, none): fla	t	Slope:	1.0 % / 0
ubregion (LRR): LRR D	Lat.: 438851	Long.: 4434401		Datur	n: NAD83
oil Map Unit Name: Ironton loam		NWI	classification	n:_Upland	
e climatic/hydrologic conditions on the site typical for	this time of year? Yes No	(If no, expl	ain in Remar	ks.)	
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🛭	significantly disturbed? Are	"Normal Circumstan	ces" present	? Yes ⊙	No \bigcirc
re Vegetation, Soil, or Hydrology [naturally problematic? (If n	needed, explain any a	answers in R	emarks.)	
Summary of Findings - Attach site map	showing sampling point lo	ocations, trans	ects, imp	ortant fea	atures, etc.
Hydrophytic Vegetation Present? Yes No 🗨	Is the Samples	I Aron			
Hydric Soil Present? Yes O No 🗨		Vec O Ne			
Wetland Hydrology Present? Yes O No 🗨	within a Wetla	nd? fes ○ No			
Remarks: Upland area adjacent to SP-38.					
opidita died dajacent to 51 50.					
VEGETATION - Use scientific names of p	olants. Dominant Species?				
- O (Diet size)	Absolute Rel.Strat. Indicate	or Dominance Test	worksheet:		
Tree Stratum (Plot size:)	<u>% Cover </u>	Number of Domina		0	(4)
1 2.		_ That are OBL, FAC	W, OF FAC:	0	(A)
3.	0 0.0%	Total Number of D		1	(B)
4.	0 0.0%	Species Across All	Strata.		(b)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of domi That Are OBL, F.			% (A/B)
1	0 0.0%	Prevalence Inde	x worksheet:		
2	0	Total % Co	over of:	Multiply by:	
3	0	OBL species	0	x 1 =	0
4. 5.	0	FACW species	0	x 2 =	0
	0	FAC species	0	x 3 =	0
Herb Stratum (Plot size:)	= Total Cover	FACU species	100	x 4 =	100
1. Festuca pratensis	100 🗹 100.0% FACU	UPL speci es	0	x 5 =	0
2		Column Totals	:100	(A)	100 (B)
3.	0	Prevalence	Index = B/A	= 4.00	0
4	0	Hydrophytic Veg	etation Indic	cators:	
5	0	_	Test is > 50		
6. 7.		Prevalence	Index is ≤3.	o ¹	
8.	0 0.0%	Morphologi	cal Adaptatio	ons ¹ (Provide separate she	supporting
9.	0 0.0%			•	•
10.	0 0.0%	- Problemation	Hydrophyti	c Vegetation ¹	(Explain)
11.	0 0.0%	_			
	100 = Total Cover	Indicators of home be present, unle			
Woodv Vine Stratum (Plot size:)	_			• • • • • • • • • • • • • • • • • • • •	
1	0	_			
2	0 0.0%	Hydrophytic Vegetation			
	0 = Total Cover	Present?	Yes O	lo 💿	
	% Cover of Biotic Crust ()				
% Bare Ground in Herb Stratum: 0	70 GOVER OF BIOTIC OF GOV				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2	100%					Loam	
				-			-	
				-				
Typo: C-Con	contration D_Donlation		d Matrix, CS_Covere	d or Coate	d Sand Crair	ns 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					is -Lucat	-	
Ť		ie to all LRR						oblematic Hydric Soils:3
J Histosol (/J Histic Epip	•		Sandy Redox (1 cm Muck (A9	
Black Hist			Stripped Matrix		1)		2 cm Muck (A1	
=	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	, ,
	_ayers (A5) (LRR C)		Loamy Gleyed		:)		Red Parent Mat	, ,
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		- /)			
Sandy Mu	ck Mineral (S1)		Redox depress				3 Indicators of hydromach	rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	gy must be present.
estrictive La	yer (if present):							
	J. (1)							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	? Yes ○ No •
Depth (incl	nes): of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No O
Depth (incl demarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No •
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Landform (hillslope, terrace, etc.): Valley bottom Lat.: 438742 Soli Map Unit Name: Vineyard fine sandy loam Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No No Probed? Are "No atic? (If ne ling point local l	Convex, none): concave Slope: 1.0 % / 0.6 Long.: 4434550 Datum: NAD83 NWI classification: PEM (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) Cations, transects, important features, etc. Area d? Yes No Ceded
Landform (hillslope, terrace, etc.): Valley bottom Loc. Subregion (LRR): LRR D Lat.: 438742 Soil Map Unit Name: Vinevard fine sandy loam Are climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturbly di	Yes No Thed? Are "No atic? (If ne ling point loc Is the Sampled A within a Wetland r seep. The seep. The sampled A within a Wetland r seep. The sampled A within a Wetland r seep.	Convex, none): concave Long.: 4434550 NWI classification: PEM (If no, explain in Remarks.) Normal Circumstances" present? Yes No Reded, explain any answers in Remarks.) Cations, transects, important features, etc. Area d? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Joan Number of Dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Joan Number of Dominant Species That Are OBL, FACW, or FAC: Number of Dominant Species That Are OBL, FACW, or FAC: Number of Dominant Species That Are OBL, FACW, or FAC: Multiply by:
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam tre climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	Yes No No Probed? Are "No atic? (If ne ling point local l	NWI classification: PEM (If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Area Id? Yes No Cededa, explain any answers in Remarks.) Cations, transects, important features, etc. Id. No Cededa, explain any answers in Remarks.) Id. No Cededa, explain any answers
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Soil Map Unit Name: Vineyard fine sandy loam tre climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation , Soil , or Hydrology significantly disturated Vegetation , Soil , or Hydrology naturally problem Summary of Findings - Attach site map showing samp Hydrophytic Vegetation Present? Yes No Hydrology No Hydrology Present? Yes No Hydrology Pre	Yes No No rbed? Are "Natic? (If ne ling point loc lis the Sampled A within a Wetland r seep. Matic? (If ne ling point loc lis the Sampled A within a Wetland r seep.	NWI classification: PEM (If no, explain in Remarks.) Normal Circumstances" present? Yes No reded, explain any answers in Remarks.) cations, transects, important features, etc. Area d? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total Number of Dominant Species That Are OBL, FACW, or FAC: Total % Cover of: Multiply by:
re climatic/hydrologic conditions on the site typical for this time of year? Are Vegetation	rbed? Are "Natic? (If ne ling point loc ls the Sampled Awithin a Wetland r seep. minant ecies? I.Strat. Indicator ver Status 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(If no, explain in Remarks.) Normal Circumstances" present? Yes No ceded, explain any answers in Remarks.) Cations, transects, important features, etc. Area d? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
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Summary of Findings - Attach site map showing samp Hydrophytic Vegetation Present? Yes No Hydric Soil Present? Yes No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No No Wetland Hydrology Present? Yes No Wetland Hydrology Present? Yes No Wetland Created by a hillslope ground water Palustrine emergent wetland created by a hillslope ground water Palustrine emerg	Is the Sampled A within a Wetland r seep. minant ecies? I.Strat. Indicator Status 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Cations, transects, important features, etc. Area d? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: Total % Cover of: Multiply by:
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Wetland Hydrology Present? Yes ● No ○ Remarks: Palustrine emergent wetland created by a hillslope ground water of plants. VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolute % Cover Co 1	minant ecies? I.Strat. Indicator status 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: Total % Cover of: Multiply by:
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VEGETATION - Use scientific names of plants.	minant ecies? I.Strat. Indicator Status 0.0% 0.0% 0.0% 0.0% 0.0% otal Cover	Number of Dominant Species That are OBL, FACW, or FAC:3
VEGETATION - Use scientific names of plants. Tree Stratum (Plot size:) Absolute % Cover Co 1	minant ecies? I.Strat. Indicator Status 0.0% 0.0% 0.0% 0.0% 0.0% otal Cover	Number of Dominant Species That are OBL, FACW, or FAC:3
Tree Stratum (Plot size:)	Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC:3
Tree Stratum (Plot size:	I.Strat. Indicator Status	Number of Dominant Species That are OBL, FACW, or FAC:3
1. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 1. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 5. 0 □ Herb Stratum (Plot size: □) 1. Schoenoplectus acutus 40 ✓ 2. Carex nebrascensis 35 ✓ 3. Eleocharis palustris 20 ✓ 4. Polypogon monspeliensis 5 □ 5. 0 □ 6. 0 □ 7. 0 □ 8. 0 □	0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	That are OBL, FACW, or FAC: 3 (A) Total Number of Dominant Species Across All Strata: 3 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
2.	0.0% 0.0% 0.0% 0.0% 0.0%	Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet: Total % Cover of: Multiply by:
3.	0.0% 0.0% vtal Cover 0.0%	Species Across All Strata:3(B) Percent of dominant Species That Are OBL, FACW, or FAC:100.0%(A/B) Prevalence Index worksheet:Total % Cover of:Multiply by:
4.	0.0% 0.0% 0.0%	Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet: Total % Cover of: Multiply by:
Sapling/Shrub Stratum (Plot size:	0.0% 0.0%	That Are OBL, FACW, or FAC:100.0% (A/B) Prevalence Index worksheet:Total % Cover of: Multiply by:
1. 0 □ 2. 0 □ 3. 0 □ 4. 0 □ 5. 0 □ Herb Stratum (Plot size: □) 1. Schoenoplectus acutus 40 ✓ 2. Carex nebrascensis 35 ✓ 3. Eleocharis palustris 20 ✓ 4. Polypogon monspeliensis 5 □ 5. 0 □ 6. 0 □ 7. 0 □ 8. 0 □	0.0%	Total % Cover of: Multiply by:
3.		
4.	0.00/	
5.	0.0%	1 20 00 70 N I - 70
Herb Stratum (Plot size:)	0.0%	FACW species x 2 =10
Herb Stratum (Plot size:) 1. Schoenoplectus acutus 40 2. Carex nebrascensis 35 3. Eleocharis palustris 20 4. Polypogon monspeliensis 5 5. 0 6. 0 7. 0 8. 0	0.0%	FAC species0 x 3 =0
1. Schoenoplectus acutus 40 ✓ 2. Carex nebrascensis 35 ✓ 3. Eleocharis palustris 20 ✓ 4. Polypogon monspeliensis 5 □ 5. 0 □ 6. 0 □ 7. 0 □ 8. 0 □	otal Cover	FACU species x 4 =0
2. Carex nebrascensis 35 3. Eleocharis palustris 20 4. Polypogon monspeliensis 5 5. 0 6. 0 7. 0 8. 0		UPL speci es x 5 =0
3. Eleocharis palustris 20 ✓ 4. Polypogon monspeliensis 5 □ 5. 0 □ 6. 0 □ 7. 0 □ 8. 0 □	40.0% OBL	Column Totals: 100 (A) 105 (B)
4. Polypogon monspeliensis 5 5. 0 6. 0 7. 0 8. 0	35.0% OBL	
5. 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	20.0% OBL 5.0% FACW	Prevalence Index = B/A =1.050_
6. 0 0 0 0 0 8. 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0%	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
7. 0 □ 0 □ 0 □ 0 □ 0 □ 0 □ 0 □ 0 □ 0 □ 0	0.0%	✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 1
	0.0%	
	0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9. 0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10.	0.0%	Problematic Hydrophytic vegetation (Explain)
11	0.0%	1
	otal Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
1		
2	0.0%	
	0.0%	Hydrophytic Vegetation
% Bare Ground in Herb Stratum: 0 % Cover of Biotic Cru	0.0% ctal Cover	Hydrophytic Vegetation Present? Yes No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .		Matrix	·		Red	ox Featu	res		absence of in			
(inches)	Color (r		%	Color (m		%	Tvpe 1	Loc2	Text	ure	R	emarks
0-6	10YR	2/2	100%						Peat			
6-20	10YR	3/2	95%	5YR	4/6	5%	С	М	Loam	_		
lydric Soil Ir Histosol (A Histic Epipe Black Histic Hydrogen S Stratified L 1 cm Muck Depleted B Thick Dark	ndicators: A1) edon (A2)	LRR C) o) urface (A11	e to all LRF	Rs, unless o Sandy Stripp Loamy Loamy Deple Redox Redox	therwise Redox (Seed Matrix y Mucky N y Gleyed ted Matrix C Dark Su ted Dark C depressi	e noted.) S5) ((S6) Wineral (F') Matrix (F2) x (F3) rface (F6) Surface (F8)	1)	ns ²Loca	1 cm l 2 cm l Reduc Red P Other	s for Problet Muck (A9) (LR Muck (A10) (L ted Vertic (F18 arent Material (Explain in Re	matic Hydric RR C) RR B) B) I (TF2) emarks)	and
	•	,		Verna	l Pools (F	·9)			Ŭ Indicato wetlan	rs ot hydrophy d hydrology m	ytic vegetation nust be present	and :.
_ Sandy Gley	yed Matrix (S	44)									<u> </u>	
Type:		sent):							Uvdria Sail	Drocont?	Vac 📵	No O
	nes):	sent):		_					Hydric Soil	Present?	Yes •	No O
Type: Depth (inch emarks:	nes):e criteria for	sent):		_					Hydric Soil	Present?	Yes •	No O
Type: Depth (inch emarks: ils meet the	nes):e criteria for	redox dar							Hydric Soil	Present?	Yes •	No O
Type:	rology Indicators (miniater (A1)	cators: imum of or inverine)) (Nonriverine) neriverine))	rk surface. ne requirec	d; check all salt Biot Aqu Hyd V Oxic Pres	Crust (Bic Crust (Bic Crust (Bic Crust (Bic Crust)) Compared the compared to the compared to the crust (Bic Crust) Comp	11) (B12) rtebrates (Ifide Odor zospheres Reduced I	along Living ron (C4) in Plowed S		Sec.	ondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro	cators (2 or m (B1) (Riverine) posits (B2) (Riv (B3) Riverine) erns (B10) vater Table (C2 pws (C8) ible on Aerial I ard (D3)	nore required)_ erine)
Type:	rology Indicators (miniater (A1) er Table (A2) (A3) eks (B1) (Noniber (B2) sits (B3) (Noribil Cracks (B6) en Visible on A	cators: imum of or inverine)) (Nonriverine) neriverine)) verial Image (B9)	ne requirec	d; check all : Salt Biot Aqu Hyd V Oxic Pres Recc Thir	Crust (Bic Crust (Bic Crust (Bic Crust (Bic Crust)) Compared the compared to the compared to the crust (Bic Crust) Comp	11) (B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7	along Living ron (C4) in Plowed S		Sec.	ondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry Season W Crayfish Burro Saturation Vis Shallow Aquit	cators (2 or m (B1) (Riverine) posits (B2) (Riv (B3) Riverine) erns (B10) vater Table (C2 pws (C8) ible on Aerial I ard (D3)	nore required)_ erine)
Type:	rology Indicators (minimater (A1) er Table (A2) (A3) ks (B1) (Noniber Table (B2) sits (B3) (Noribil Cracks (B6) n Visible on A dined Leaves (B4) esent? esent? esent? early fringe)	cators: imum of ol riverine)) (Nonriverin neriverine)) Aerial Image (B9) Yes Yes	ne required ne) No No No No No	d; check all Salt Biot Aqu Hyd V Oxio Pres Reco Thir Oth	Crust (B crust (I cru	ntl) B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Goils (C6)	Section 1	ondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry Season W Crayfish Burro Saturation Vis Shallow Aquit: FAC-neutral Ti	cators (2 or m (B1) (Riverine) posits (B2) (Riv (B3) Riverine) erns (B10) vater Table (C2 pws (C8) ible on Aerial I ard (D3)	nore required) erine)
Type:	rology Indicators (minimater (A1) er Table (A2) (A3) ks (B1) (Noniber Table (B2) sits (B3) (Noribil Cracks (B6) n Visible on A dined Leaves (B4) esent? esent? esent? early fringe)	cators: imum of ol riverine)) (Nonriverin neriverine)) Aerial Image (B9) Yes Yes	ne required ne) No No No No No	d; check all Salt Biot Aqu Hyd V Oxio Pres Reco Thir Oth	Crust (B crust (I cru	ntl) B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Goils (C6)	Section 1	ondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry Season W Crayfish Burro Saturation Vis Shallow Aquit: FAC-neutral Ti	cators (2 or m (B1) (Riverine) posits (B2) (Riv (B3) Riverine) erns (B10) vater Table (C2 pws (C8) ible on Aerial I ard (D3) est (D5)	nore required) erine)) magery (C9)
Type:	rology Indicators (minimater (A1) er Table (A2) (A3) ks (B1) (Nonible (B2) sits (B3) (Norible on A dined Leaves (B4) attions: Present? esent? early fringe)	cators: imum of ol riverine)) (Nonriverin neriverine)) Aerial Image (B9) Yes Yes	ne required ne) No No No No No	d; check all Salt Biot Aqu Hyd V Oxio Pres Reco Thir Oth	Crust (B crust (I cru	ntl) B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	(C1) along Living ron (C4) in Plowed S) arks)	Goils (C6)	Section 1	ondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patte Dry Season W Crayfish Burro Saturation Vis Shallow Aquit: FAC-neutral Ti	cators (2 or m (B1) (Riverine) posits (B2) (Riv (B3) Riverine) erns (B10) vater Table (C2 pws (C8) ible on Aerial I ard (D3) est (D5)	nore required) erine)) magery (C9)

Applicant/Owner: Utah Department of Tolerants	ransportatio								
nvestigator(s): Todd Sherman		JH				State: UT	San	pling Point:_	41
Toda chemian				Section, To	wnship, Ra	ange: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.): V	alley botto	om		Local relief	(concave, c	convex, none): flat	-	Slope:	1.0 % / 0.
Subregion (LRR): LRR D			Lat.: 438	752		Long.: 4434543		 Datur	n: NAD83
oil Map Unit Name: Vineyard fine san	dv loam					NWI	lassification	: Upland	
e climatic/hydrologic conditions on the		ical for this	time of year?	Yes	. ● No C	(If no, expla	in in Remar	ks.)	
Are Vegetation, Soil,	or Hydrol	ogy 🗌	significantly d	isturbed?	Are "N	ormal Circumstand	es" present	yes ●	No O
-	or Hydrol	ogy 🗆	naturally prob	lematic?		eded, explain any a	•		
Summary of Findings - Atta									itures, etc.
Hydrophytic Vegetation Present?	Yes O	No 💿		Is the	Sampled A	lron.			
Hydric Soil Present?	Yes \bigcirc	No 💿			Sampled A	Vaa O Na			
Wetland Hydrology Present?	Yes \bigcirc	No 💿		within	a Wetland	i? res ∪ No	•		
Remarks: Upland area adjacent to	SP-40								
Opiana area adjacent to	31 -40.								
VEGETATION - Use scienti	ific nam	es of plar	nts.	Dominant					
			Absolute	Species? Rel.Strat.	Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)		% Cover	Cover	Status	Number of Domina	nt Species		
1,				0.0%		That are OBL, FAC	W, or FAC:	0	(A)
2				0.0%		Total Number of D	ominant		
3. 4.			_ 0	0.0%		Species Across All S	Strata:	1	(B)
			0	0.0%		Percent of domir	ant Species		
Sapling/Shrub Stratum (Plot size:)		= Total Cove	er	That Are OBL, FA		: 0.09	6 (A/B)
1.			0	0.0%		Prevalence Index	worksheet		
2.				0.0%		Total % Co		Multiply by:	
3.			0 [0.0%		OBL species	0		0
4.			0	0.0%		FACW species	10		20
5.				0.0%		FAC species	10		30
			0 :	= Total Cove	er	FACU species	80	x 4 = 3	320
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Festuca pratensis				80.0%	FACU	Column Totals:	100	(A) 3	370 (B)
2. Juncus balticus				10.0%	FACW				
3. Poa pratensis 4.				0.0%	FAC	Prevalence I			<u>U</u>
5.			0 [0.0%		Hydrophytic Vege			
6.			0 [0.0%		Dominance Prevalence			
7.			0	0.0%					
8.			0	0.0%		☐ Morphologic	al Adaptation	ons ¹ (Provide separate shee	supporting et)
9.			0[0.0%				c Vegetation ¹	
10.			0[0.0%			,	o rogotation.	(Explain)
11.				0.0%		1			
			100	= Total Cove	er	1 Indicators of h			
Woodv Vine Stratum (Plot size:		_)		_				<u> </u>	
1			0	0.0%					
2			0	0.0%		Hydrophytic Vegetation			
			0 :	= Total Cove	er	Present?	Yes 🔾 N	o	
						I .			
% Bare Ground in Herb Stratum:	0	%(Cover of Biotic	Crust 0					
% Bare Ground in Herb Stratum:	0	%(Cover of Biotic	Crust_0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth (inches)	Matrix		Rec	lox Featu				
(mones)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 4/2	100%					Loam	
	-							
				-				
				-				
Tunos C. Consos	ntrotion D. Donlotion		Matrix CC Cayara	d or Coots	d Cond Croin	21 0001	tion. DI Doro Lining M Matrix	
···	•					S -Lucai	tion: PL=Pore Lining. M=Matrix	2
Š	licators: (Applicab	ie to all LRRS					Indicators for Problemation	c Hydric Soils:3
J Histosol (A1)J Histic Epiped			Sandy Redox (1 cm Muck (A9) (LRR C)	
Black Histic (Stripped Matrix		1)		2 cm Muck (A10) (LRR B))
Hydrogen Su			Loamy Mucky				Reduced Vertic (F18)	
	yers (A5) (LRR C)		Loamy Gleyed)		Red Parent Material (TF2	•
1 cm Muck (/			Depleted Matri				Other (Explain in Remark	as)
Depleted Bel	low Dark Surface (A1	1)	Redox Dark Su		-7\			
Thick Dark S		•	Depleted Dark		1)			
Sandy Muck			Redox depress				³ Indicators of hydrophytic ve	egetation and
Sandy Gleyed			Vernal Pools (I	-9)			wetland hydrology must b	
estrictive Lav	er (if present):							
Type:	or (ii present).							
	s):						Hydric Soil Present? Ye	s O No 💿
Remarks:	,		_					
	hydric soil.							
ydrology								
	logy Indicators:							
etland Hydro		one required;	check all that app	oly)			Secondary Indicators	s (2 or more required)
etland Hydro	logy Indicators: tors (minimum of c	one required;	check all that app				Secondary Indicators Water Marks (B1) (
etland Hydrol	logy Indicators: tors (minimum of c er (A1)	one required;		11)				Riverine)
rimary Indicat Surface Wate	logy Indicators: tors (minimum of o er (A1) Table (A2)	one required;	Salt Crust (B	11) (B12)	B13)		Water Marks (B1) (Riverine) (B2) (Riverine)
rimary Indicat Surface Water High Water Saturation (A	logy Indicators: tors (minimum of o er (A1) Table (A2)	one required;	Salt Crust (B	11) (B12) rtebrates (Water Marks (B1) (Sediment Deposits	Riverine) (B2) (Riverine) Riverine)
Vetland Hydrol Vrimary Indicat Surface Water High Water Saturation (A Water Marks	logy Indicators: tors (minimum of cer (A1) Table (A2)		Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ulfide Odor		Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Riverine) (B2) (Riverine) Riverine) (B10)
Vetland Hydrol Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De	logy Indicators: tors (minimum of der (A1) Table (A2) A3) (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ulfide Odor zospheres	(C1) along Living	Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water	Riverine) (B2) (Riverine) Riverine) (B10) (Fable (C2)
Vetland Hydrol Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonrivers s (B3) (Noneriverine)	ine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	.11) (B12) rtebrates (ılfide Odor zospheres Reduced II	(C1) along Living		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2)
Primary Indicat Surface Wate High Water Saturation (# Water Marks Sediment De Drift deposits	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonrivers s (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	(B12) rtebrates (Ilfide Odor zospheres Reduced In	(C1) along Living on (C4) in Plowed So		Water Marks (B1) (Sediment Deposits (B3) Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) C8) n Aerial Imagery (C9)
Vetland Hydrol Irimary Indicat Surface Wate High Water Saturation (A Water Marks Sediment De Drift deposite Surface Soil Inundation V	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriver s (B3) (Noneriverine) Cracks (B6)	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) (S8) In Aerial Imagery (C9) (C9)
Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De Drift deposite Surface Soil Inundation V Water-Staine	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonrivers (B3) (Noneriverine) Cracks (B6) Visible on Aerial Imaged Leaves (B9)	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	(B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits (B3) Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) (S8) In Aerial Imagery (C9) (C9)
Vetland Hydrol Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De Drift deposite Surface Soil Inundation V Water-Staine	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonrivers (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) ons:	ine) ery (B7)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) (S8) In Aerial Imagery (C9) (C9)
Vetland Hydrol Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De Drift deposit: Surface Soil (Inundation V) Water-Stained Water Water Pre-	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriver s (B3) (Noneriverine) Cracks (B6) //isible on Aerial Imag ed Leaves (B9) ons: esent? Yes	ery (B7)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed So) arks)		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) (S8) In Aerial Imagery (C9) (C9)
Vetland Hydrol Primary Indicat Surface Water High Water Saturation (A Water Marks Sediment De Drift deposite Surface Soil Inundation Water-Staine ield Observati urface Water Pres	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) ons: esent? Yes	ery (B7) No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed So	ils (C6)	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I FAC-neutral Test (I	Riverine) (B2) (Riverine) (B2) (Riverine) (B10) (B10) (Fable (C2) (C2) (C3) (C3) (C3) (C3) (C3) (C3) (C4) (C5) (C5) (C5) (C6) (C6) (C7) (C7) (C7) (C7) (C7) (C7) (C7) (C7
Vetland Hydrol Primary Indicat Surface Wate High Water Saturation (A Water Marks Sediment De Drift deposit: Surface Soil Inundation V Water-Staine Vater Table Prese aturation Preser includes capillary	logy Indicators: tors (minimum of cer (A1) Table (A2) A3) (B1) (Nonriverine) eposits (B2) (Nonriverine) Cracks (B6) //isible on Aerial Imaged Leaves (B9) ons: esent? Yes ent? Yes y fringe) Yes (1)	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines): hes): hes):	(C1) along Living ron (C4) in Plowed So hrks)	wetla	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Dry Season Water Crayfish Burrows ((Saturation Visible of Shallow Aquitard (I FAC-neutral Test (I	Riverine) (B2) (Riverine) Riverine) (B10) Fable (C2) (S8) In Aerial Imagery (C9) (C9)
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bsolute Cover Co	within er seep. ominant pecies? el.Strat. over 0.0%	a Wetland	Yes No			
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0	0.0%					
0 0				nt Species		
0	0.0%		That are OBL, FACV	•	4	(A)
0 🗆			Total Number of Do	minant		
	0.0%		Species Across All S		5	(B)
	0.0%					
0 = T	otal Cove	r	Percent of domin That Are OBL, FA		: 80.0%	6 (A/B)
0	0.0%		Prevalence Index	worksheet:		
0 🗌	0.0%		Total % Co	ver of:	Multiply by:	
0 🗌	0.0%		OBL species	40	x 1 =4	0
0	0.0%		FACW species	20	x 2 = <u>4</u>	.0
0 🔲	0.0%		FAC species	20	x 3 = <u>6</u>	0
0 = T	otal Cove	r	FACU species	20	x 4 =8	80
			UPL species	0	x 5 =(0
			Column Totals:	100	(A)2;	20 (B)
			Provalence II	ndov – R/A -	- 2.200	`
		1710				
0	0.0%		_			
0 🗆	0.0%		data in Rema	ai Adaptatio arks or on a	separate sheet	iupporting i)
0	0.0%		Problematic	Hvdrophytic	Vegetation 1	(Explain)
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	ust_0					
of Biotic Cr						
of Biotic Cr						
	0	20	20	20	20	20

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth (inches)	Matrix		Red	ox Featu				
(ITICITES)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-2	10YR 3/3	100%					Peat	
2-20	10YR 2/1	100%					Loam	
ype: C=Con	centration. D=Depletion	n. RM=Reduced	Matrix, CS=Covere	d or Coate	d Sand Grair	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
ydric Soil I	ndicators: (Applicab	ole to all LRRs	, unless otherwise	e noted.)			Indicators for Problematic	Hydric Soils:3
Histosol (A			Sandy Redox (S5)			1 cm Muck (A9) (LRR C)	
Histic Epip	edon (A2)		Stripped Matrix	(S6)			2 cm Muck (A10) (LRR B)	
Black Histi			Loamy Mucky I	Mineral (F	1)		Reduced Vertic (F18)	
_ , ,	Sulfide (A4)		Loamy Gleyed	Matrix (F2)		Red Parent Material (TF2)	
Stratified L	_ayers (A5) (LRR C)		Depleted Matri				✓ Other (Explain in Remarks	
1 cm Muck	(A9) (LRR D)		Redox Dark Su	` ,			Other (Explain in Remarks	·)
Depleted E	Below Dark Surface (A1	1)	☐ Depleted Dark		7)			
Thick Dark	Surface (A12)		Redox depress		,,			
Sandy Mud	ck Mineral (S1)		Vernal Pools (F				³ Indicators of hydrophytic veg	getation and
Sandy Gley	yed Matrix (S4)		vernai Poois (F	(9)			wetland hydrology must be	e present.
estrictive La	yer (if present):							
Type:	7. (1 ··· 7							
	nes):						Hydric Soil Present? Yes	. ● No ○
Remarks:								
	xhibit any typical hyd	dric soil indica	tors, but the soils	are satu	rated in the	e upper pi	rofile during the dry season, me	eeting the definition of
dric soil.		dric soil indica	tors, but the soils	are satu	rated in the	e upper pi	rofile during the dry season, me	eeting the definition of
dric soil.		dric soil indica	tors, but the soils	are satu	rated in the	e upper pi	rofile during the dry season, me	eeting the definition of
dric soil.		dric soil indica	tors, but the soils	are satu	rated in the	e upper pi	rofile during the dry season, me	eeting the definition of
dric soil. ydrology retland Hydi	/ rology Indicators:				rated in the	e upper pi		-
dric soil. ydrology retland Hydi	rology Indicators: cators (minimum of d			ıly)	rated in the	e upper pr	_Secondary Indicators	(2 or more required)
ydrology Yetland Hydrimary India	rology Indicators: cators (minimum of dater (A1)		check all that app	oly) 11)	rated in the	e upper pr	Secondary Indicators Water Marks (B1) (R	(2 or more required) iverine)
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ydrology /etland Hydl rimary Indic Surface W High Wate	rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		check all that app Salt Crust (B Biotic Crust (lly) 11) [B12) rtebrates (B13)	e upper pi	Secondary Indicators Water Marks (B1) (R Sediment Deposits ((2 or more required) liverine) B2) (Riverine) Riverine)
ydrology Yetland Hydrimary Indic Surface W. High Water Saturation Water Mar	rology Indicators: cators (minimum of eater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	one required;	check all that app Salt Crust (B Biotic Crust (Aquatic Inve	lly) 11) B12) rtebrates (B13) (C1)		Secondary Indicators Water Marks (B1) (R Sediment Deposits (Comparison of the comparison of the compa	(2 or more required) verine) B2) (Riverine) Riverine) 810)
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ydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Surface W. High Water Mar Saduration Water Mar Schiment Drift depos Surface So Inundatior Water-Stai	rology Indicators: cators (minimum of eater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Yes	one required; rine) lery (B7) No	check all that app Salt Crust (B Biotic Crust (III) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of II Recent Iron Thin Muck St Other (Expla	Ily) 11) B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7) in in Rema	(B13) (C1) along Living ron (C4) in Plowed S) arks)	Roots (C3	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) Eliverine) B2) (Riverine) Riverine) 310) able (C2) 3) Aerial Imagery (C9) 33)
ydrology Vetland Hydro Primary Indic Surface W. High Water Saturation Water Mar Sediment Drift depos Surface So Inundation Water-Stai Veter Table Presincludes capill.	rology Indicators: cators (minimum of eater (A1) er Table (A2) (A3) Personal (A3) Deposits (B2) (Nonriverine) Sits (B3) (Noneriverine) Sits (B3) (Noneriverine) Sit (B4) (Noneriverine) Sit (B4) (Noneriverine) Sit (B5) (Noneriverine) Sit (B6) In Visible on Aerial Image Sined Leaves (B9) Ations: Present? Present? Yes Sent? Ary fringe)	one required; rine) Pery (B7) No check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B310) able (C2) B3) A Aerial Imagery (C9) B3)	
ydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Surface W. High Water Saturation Water Mar Sediment Drift depor Surface So Inundation Water-Stain Veter Table Presincludes capill	rology Indicators: cators (minimum of eater (A1) er Table (A2) (A3) cks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) en Visible on Aerial Image ined Leaves (B9) ations: Present? Yes esent? Yes	one required; rine) Pery (B7) No check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B310) able (C2) B3) A Aerial Imagery (C9) B3)	
ydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Surface Water Saturation Water Mar Sediment Drift depor Surface So Inundation Water-Stain Veter Table Prosecution Presecution Presecuti	rology Indicators: cators (minimum of eater (A1) er Table (A2) (A3) Personal (A3) Deposits (B2) (Nonriverine) Sits (B3) (Noneriverine) Sits (B3) (Noneriverine) Sit (B4) (Noneriverine) Sit (B4) (Noneriverine) Sit (B5) (Noneriverine) Sit (B6) In Visible on Aerial Image Sined Leaves (B9) Ations: Present? Present? Yes Sent? Ary fringe)	one required; rine) Pery (B7) No check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B310) able (C2) B3) A Aerial Imagery (C9) B3)	
ydrology /etland Hydl Primary Indic Surface W. High Water Saturation Water Stai ield Observa urface Water //ater Table Pr aturation Pres ncludes capill.	rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Yes sent? Yes orded Data (stream	one required; rine) Pery (B7) No No No qauge, monito	check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B10) able (C2) B3) A Aerial Imagery (C9) B3)
ydrology /etland Hydl Primary Indic Surface W. High Water Saturation Water Stai ield Observa urface Water //ater Table Pr aturation Pres ncludes capill.	rology Indicators: cators (minimum of eater (A1) er Table (A2) (A3) Personal (A3) Deposits (B2) (Nonriverine) Sits (B3) (Noneriverine) Sits (B3) (Noneriverine) Sit (B4) (Noneriverine) Sit (B4) (Noneriverine) Sit (B5) (Noneriverine) Sit (B6) In Visible on Aerial Image Sined Leaves (B9) Ations: Present? Present? Yes Sent? Ary fringe)	one required; rine) Pery (B7) No No No qauge, monito	check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B310) able (C2) B3) A Aerial Imagery (C9) B3)
ydrology /etland Hydl Primary India Surface W. High Water Saturation Water Stai Journal Observator Water Table Proportion of the p	rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Yes sent? Yes orded Data (stream	one required; rine) Pery (B7) No No No qauge, monito	check all that app Salt Crust (B Biotic Crust (C) Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck St Other (Expla	Ily) 11) 11) 1812) Itebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	B13) (C1) along Living ron (C4) in Plowed S) arks) 16 9	Roots (C3 bils (C6)	Secondary Indicators Water Marks (B1) (R Sediment Deposits (B3) F Drift Deposits (B3) F Drainage Patterns (E Crayfish Burrows (C8 Saturation Visible on Shallow Aquitard (D8 FAC-neutral Test (D8	(2 or more required) liverine) B2) (Riverine) Riverine) B10) able (C2) B3) A Aerial Imagery (C9) B3)

Project/Site: I-15 Payson Main Street I	nterchange EIS	City	y/County: Payson/Uta	h	Sampli	ng Date: 14-0	oct-15
Applicant/Owner: Utah Department of	f Transportation			State: UT	Sam	pling Point:	43
Investigator(s): Todd Sherman			Section, Township, R	ange: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom	Le	ocal relief (concave,	convex, none): flat		Slope:	1.0 % / 0.
Subregion (LRR): LRR D		Lat.: 4386	27	Long.: 4434652		 Datum	n: NAD83
Soil Map Unit Name: Vineyard fine sa	andv loam			NWI cl	lassification	 : Upland	•
re climatic/hydrologic conditions on		his time of year?	Yes No				
Are Vegetation, Soil	, or Hydrology	significantly dis	sturbed? Are "N	lormal Circumstance	es" present?	Yes •	No O
Are Vegetation, Soil	, or Hydrology	naturally proble		eded, explain any ar	•		
Summary of Findings - At			•				itures, etc.
Hydrophytic Vegetation Present?	Yes ○ No ●		In the Country of A				
Hydric Soil Present?	Yes O No 💿		Is the Sampled A	Vac O Na (
Wetland Hydrology Present?	Yes O No 💿		within a Wetland	$_{ m 1?}$ Yes \odot No $^{\circ}$	9		
Remarks: Upland area adjacent	to SP 42						
opianu area aujacent	tu 3r-42.						
VEGETATION - Use scien	ntific names of pl		Dominant				
			Species? ————————————————————————————————————	Dominance Test v	worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Dominar	nt Species		
1			0.0%	That are OBL, FACV	√, or FAC:	0	(A)
2				Total Number of Do	minant		
3. 4.				Species Across All S	trata:	2	(B)
-			0.0%	Percent of domina	ant Species		
Sapling/Shrub Stratum (Plot size:)	=	Total Cover	That Are OBL, FA		: 0.0%	6 (A/B)
1.		0	0.0%	Prevalence Index	workshoot:		
2.		0	0.0%	Total % Cov		Multiply by:	
3.		0	0.0%	OBL species	0		0
4.		0	0.0%	FACW species	0		0
5.		0	0.0%	FAC species	0		0
		0 =	Total Cover	FACU species	100	x 4 = 4	.00
Herb Stratum (Plot size:)		_	UPL species	0	x 5 =	0
1. Festuca pratensis				Column Totals:	100	(A) 4	.00 (B)
3 4.		0	0.0%	Prevalence Ir			<u>U</u>
5.			0.0%	Hydrophytic Vege			
6.			0.0%	Dominance T			
7.		0	0.0%				
8.		0	0.0%	data in Rema	अ Adaptatio arks or on a	ons ¹ (Provide s separate shee	supporting :t)
9.		0	0.0%	Problematic	Hvdrophytic	Vegetation 1	(Explain)
10. 11.		0	0.0%		J. 11 J. 1	3	
			0.0%	1 Indicators of hy	rdria cail an	d watland hud	Irology must
		100=	Total Cover	be present, unles			
Woodv Vine Stratum (Plot size:)	_					
1							
2				Hydrophytic Vegetation			
			Total Cover	Present?	∕es ○ No	o	
% Bare Ground in Herb Stratum	: 0 %	% Cover of Biotic (Crust 0				
Remarks:							
The area does not meet the vegeta	ation criteria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	,							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

	Lat.: 438 e of year? ificantly o	Yes (slisturbed?	No O	Long.: 443535	T 9S character classification: lain in Remark character present?	Datum : PEM (ss.) Yes •	44
Landform (hillslope, terrace, etc.): Valley bottom Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology nature Summary of Findings - Attach site map shown Hydrophytic Vegetation Present? Yes No	Lat.: 438 e of year? ificantly o	Yes Olematic?	No O	Long.: 443535 NWI (If no, exp	oncave 7 classification: lain in Remark nces" present?	Slope: Datum : PEM ks.) Yes •	n: NAD83
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology natu Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No	Lat.: 438 e of year? ificantly o	Yes (slisturbed?	No O	Long.: 443535 NWI (If no, exp	7 classification: lain in Remark nces" present?	Datum : PEM (ss.) Yes •	n: NAD83
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology natu Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No	e of year? ificantly o	Yes (listurbed?	Are "No	NWI (If no, exp	classification: lain in Remark nces" present?	Datum : PEM (ss.) Yes •	n: NAD83
Soil Map Unit Name: Vineyard fine sandy loam re climatic/hydrologic conditions on the site typical for this time Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology natu Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No	e of year? ificantly o	Yes (listurbed?	Are "No	NWI (If no, exp	classification: lain in Remark nces" present?	S.) Yes •	
re climatic/hydrologic conditions on the site typical for this time. Are Vegetation , Soil , or Hydrology sign. Are Vegetation , Soil , or Hydrology naturation. Summary of Findings - Attach site map show. Hydrophytic Vegetation Present? Yes No	ificantly o	listurbed? plematic?	Are "No	(If no, exp	lain in Remark	(s.) Yes	No O
Are Vegetation , Soil , or Hydrology sign Are Vegetation , Soil , or Hydrology natu Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No	ificantly o	listurbed? plematic?	Are "No	rmal Circumstar	nces" present?	Yes •	No O
Are Vegetation , Soil , or Hydrology natural n	rally prob	olematic?			-		
Summary of Findings - Attach site map show Hydrophytic Vegetation Present? Yes No O			(If need	ded, explain any	answers in Re		
Hydrophytic Vegetation Present? Yes No No	3 -		nt loca				tures, etc.
Hydric Soil Present? Yes No							
Trydric Soli i reserit.		Is the Sa	-	Vac 📵 N	- (
Wetland Hydrology Present? Yes No		within a	Wetland?	yes 🙂 N	o		
Remarks: Palustrine emergent wetland that is part of a large	wotland	compley					
ralustifile emergent wettand that is part of a large	wettanu	complex.					
VEGETATION - Use scientific names of plants.		Dominant					
	Absolute	—Species? — Rel.Strat. In	ndicator	Dominance Tes	t worksheet:		
	% Cover	Cover St	tatus	Number of Domir	nant Species		
1	0	0.0%		That are OBL, FA	•	3_	(A)
2	0	0.0%		Total Number of	Dominant		
3				Species Across Al	l Strata:	3_	(B)
±	0	0.0%		Percent of dom	inant Snacios		
Sapling/Shrub Stratum (Plot size:)	0	= Total Cover		That Are OBL, I		100.09	% (A/B)
1.	0	0.0%	-	Prevalence Inde	av workshoot:		
2.	0	0.0%		Total % (Multiply by:	
3.	0	0.0%		OBL species			70
4.	0	0.0%		FACW species			56
5.	0	0.0%		FAC species	2	x 3 =	6
	0	= Total Cover		FACU species	0	x 4 =	0
_Herb Stratum (Plot size:)				UPL species	_	x 5 =	0
1. Carex nebrascensis			BL ,	Column Total:			32 (B)
2. Juncus balticus			ACW_		Index = B/A =		
Schoenoplectus pungens Polypogon monspeliensis	<u>20</u> 4		ACW				
5. Phalaris arundinacea	2		ACW	Hydrophytic Ve	•		
6. Rumex crispus	2		AC		e rest is > 507 e Index is ≤3.0		
7. Persicaria lapathifolia	2		ACW				
8.	0	0.0%				ns ¹ (Provide s separate sheet	
9.	0	0.0%		Problemat	ic Hydrophytic	Vegetation 1	(Explain)
10. 11.	0	0.0%		_	, , ,	J	
		0.0%		¹ Indicators of	hudria cail and	d watland bud	rology must
	100	= Total Cover		be present, unl			
Woodv Vine Stratum (Plot size:)							
1		0.0%					
2		0.0%		Hydrophytic Vegetation			
		= Total Cover		Present?	Yes • No	0	
% Bare Ground in Herb Stratum: 0 % Cove	r of Biotic	: Crust_0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (Describe	to the depth ne	eded to document	the indi	cator or co	nfirm the	e absence of indicators.)
Depth	Matri			dox Featu			_
(inches)	Color (moist)		Color (moist)	%	_Tvpe 1	Loc ²	TextureRemarks
0-8	10YR 2/2	2 100%					Loam
8-20	10YR 3/2	95%	5YR 4/6	5%	C	M	Loam
				-			
1 Type: C=Cor	ncentration. D=Depl	etion. RM=Reduce	ed Matrix, CS=Covere	ed or Coate	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil I	ndicators: (Appli	cable to all LRR	s, unless otherwis	e noted.))		Indicators for Problematic Hydric Soils: ³
Histosol (Sandy Redox				1 cm Muck (A9) (LRR C)
Histic Epi	pedon (A2)		Stripped Matri				2 cm Muck (A10) (LRR B)
Black Hist	tic (A3)		Loamy Mucky		1)		Reduced Vertic (F18)
_ ` `	Sulfide (A4)		Loamy Gleyed				Red Parent Material (TF2)
_	Layers (A5) (LRR C)		Depleted Matr				Other (Explain in Remarks)
_	k (A9) (LRR D)		Redox Dark Si	urface (F6))		Other (Explain in Remarks)
	Below Dark Surface	(A11)	Depleted Dark				
	k Surface (A12)		Redox depress				3
l — ,	ick Mineral (S1)		Vernal Pools (F9)			Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gle	eyed Matrix (S4)						wettand flydrology must be present.
Restrictive L	ayer (if present):						
Type:							Hydric Soil Present? Yes ● No ○
Depth (inc	hes):						Hydric Soil Present? Yes ● No ○
Remarks:							
Soils meet the	e criteria for redo	x dark surface.					
Hydrolog	у						
Wetland Hyd	Irology Indicators	:					
Primary Indi	cators (minimum	of one required	; check all that ap	olv)			Secondary Indicators (2 or more required)
Surface W	•		Salt Crust (E				Water Marks (B1) (Riverine)
☐ High Wat	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits (B2) (Riverine)
☐ Saturation	n (A3)		Aquatic Inve	ertebrates	(B13)		Drift Deposits (B3) Riverine)
☐ Water Ma	rks (B1) (Nonriverin	e)	Hydrogen S	ulfide Odo	r (C1)		Drainage Patterns (B10)
Sediment	Deposits (B2) (Non	riverine)	Oxidized Rh	izospheres	along Livin	g Roots (C3	C3) Dry Season Water Table (C2)
☐ Drift depo	osits (B3) (Noneriver	ine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Surface S	oil Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Inundatio	n Visible on Aerial II	magery (B7)	☐ Thin Muck S	urface (C7	')		Shallow Aquitard (D3)
☐ Water-Sta	nined Leaves (B9)		Other (Expla	ain in Rem	arks)		FAC-neutral Test (D5)
Field Observ	ations:						
Surface Water		es O No 💿	Depth (inc	hes):			
		es O No 💿	. `			_	
Water Table P			Depth (inc	hes):		_ Wetl	land Hydrology Present? Yes No
Saturation Pre (includes capil	. Y	es 🔾 No 💿	Depth (inc	hes):		_	iana riyar ology r resent.
		am gauge, moni	tor well, aerial pho	otos, prev	ious inspe	ctions), if	f available:
Remarks:							
	oxidized rhizosph	eres.					
Coo GAIRBIT							

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/	otan	Sampli	ing Date: 14-0	Oct-15
pplicant/Owner: Utah Department of Transportation	-	State: UT	Sam	npling Point:_	45
nvestigator(s): Todd Sherman	Section, Township	o, Range: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concar	ve, convex, none): fla	t	Slope:	1.0 % / 0
ubregion (LRR): LRR D	Lat.: 438497	Long.: 4435361		 Datur	n: NAD83
pil Map Unit Name: Peteetneet-Holdaway complex		NWI	classification	: Upland	
e climatic/hydrologic conditions on the site typical for	this time of year? Yes N	(If no, expl	ain in Remar	ks.)	
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌	significantly disturbed? Are	e "Normal Circumstan	ces" present	? Yes ⊙	No \bigcirc
re Vegetation 🔲 , Soil 🗌 , or Hydrology 🗌	naturally problematic? (If	needed, explain any	answers in R	emarks.)	
Summary of Findings - Attach site map	showing sampling point	locations, trans	ects, imp	ortant fea	atures, etc.
Hydrophytic Vegetation Present? Yes No No					<u> </u>
Hydric Soil Present? Yes \bigcirc No $lacktriangle$		Van O Na			
Wetland Hydrology Present? Yes \bigcirc No $lacktriangle$	within a Wet	land?	,		
Remarks: Upland area adjacent to SP-44.	1				
opiana area asjacent to e					
VEGETATION - Use scientific names of p	Dlants. Dominant Species? ———				
To Charles (Plot size:	Absolute Rel.Strat. Indica		worksheet:		
Tree Stratum (Plot size:) 1.	<u>% Cover Cover Status</u> 0 □ 0.0%	Number of Domin That are OBL, FAC		0	(A)
1		That are OBL, FAC	DW, UI FAC.		
3.	0 0.0%	Total Number of E Species Across All		2	(B)
4.	0 0.0%	Species Across Air	Strata.		(b)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of domi That Are OBL, F		: 0.0%	% (A/B)
1	0 0.0%	Prevalence Inde	x worksheet:		
2	0 0.0%	Total % C	over of:	Multiply by:	
3	0 0.0%	OBL species	0	x 1 =	0
4. 5.	0 0.0%	FACW species	0	x 2 =	0
	0	FAC species	0	x 3 =	0
Herb Stratum (Plot size:)	0 = Total Cover	FACU species	100		100
1. Festuca pratensis	80 🗹 80.0% FACU	UPL species	0	x 5 =	0
Trifolium fragiferum	20 20 00/ 5401	Column Totals	: 100	(A)	100 (B)
3		Prevalence	Index = B/A	= 4.00	0_
4	0 0 00/	Hydrophytic Veg	etation Indic	ators:	
5	0 0.0%	Dominance	Test is > 50	%	
6. 7.	0	Prevalence	Index is ≤3.	o ¹	
8.	0			ons ¹ (Provide	
9.	0 0.0%			separate shee	
10.	0 0.0%	— Problemati	c Hydrophytic	c Vegetation ¹	(Explain)
11.	0 0.0%	_			
	100 = Total Cover	1 Indicators of			
Woody Vine Stratum (Plot size:)		be present, unle	ess aisturbea	or problemati	C.
1.	0 0.0%	_			
2.	0 0.0%	Hydrophytic			
	0 = Total Cover	Vegetation Present?	Yes O N	o	
% Bare Ground in Herb Stratum: $_{ m 0}$	% Cover of Biotic Crust 0				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Hydrogen Sutified (A1) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Strictive Layer (If present): Type: Hydric Soil Present? Yes No									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Hydrogen Sutified (A1) Red Parent Material (TF2) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Strictive Layer (If present): Type: Hydric Soil Present? Yes No									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Isidso (Art) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S1) Cosmy Gleyed Matrix (F2) Reduced Vertic (F18) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F2) Redox depressions (F8) Sandy Muck Mineral (S1) Strictive Layer (if present): Hydric Soil Present? Yes No					-				
ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. DI Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4) Clarmy (Gleyed Matrix (F2) Red Parent Material (F72) Red	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Hydric Soil Present?	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • • •							
Permarks: In indicators of hydric soil. In indicators of hydric soil. In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A2) Sulface Water (A3) Sulface (A3) Sulface Water (A3) Sul		ies).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
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Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Shallow Aquitard (D3) FAC-neutral Test (D5) Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

Project/Site: I-15 Payson Main Street	Interchange EIS		City/County: Payson/Uta	ah	Sampling Da	ate: 14-Oct-15	5
Applicant/Owner: Utah Department o	f Transportation			State: UT	Sampling	Point:	46
Investigator(s): Todd Sherman			Section, Township, R	Range: S 4	T 9S R	 2E	
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief (concave,	convex, none): COI	ncave Si	ope: 1.(0 % / 0.6
Subregion (LRR): LRR D		Lat.: 43	8747	 Long.: 4435647		Datum: NA	
Soil Map Unit Name: Ironton loam					classification: PEN		
re climatic/hydrologic conditions or	the site typical	for this time of year	? Yes No		ain in Remarks.)	I	
Are Vegetation, Soil	, or Hydrology	_		Normal Circumstan		res No	\circ
							Ü
Are Vegetation $\;$ Summary of Findings - A°	or Hydrology, ttach site m	,	•	eeded, explain any a			es, etc.
Hydrophytic Vegetation Present?		50			<u> </u>		
Hydric Soil Present?	Yes No	\circ	Is the Sampled	area .da Yes 💿 No	\bigcirc		
Wetland Hydrology Present?	Yes 💿 No	\circ	within a Wetlan	_{id?} Yes © No			
	watland that is n	eart of a large wetland	d compley				
Remarks: Palustrine emergent v	welland that is p	art or a large wettand	a complex.				
VEGETATION - Use scien	ntific names o	of plants.	Dominant — Species?				
/	,	Absolute	Rel.Strat. Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)	% Cover		Number of Domina	•		
1 2.			0.0%	That are OBL, FAC	CW, or FAC:	3	(A)
3			0.0%	Total Number of D			
4.			0.0%	Species Across All	Strata:	3	(B)
				Percent of domi	nant Species		
Sapling/Shrub Stratum (Plot size	:		= Total Cover	That Are OBL, F		100.0%	(A/B)
1.		0	0.0%	Prevalence Inde	x worksheet:		
2.		0	0.0%	Total % Co		ply by:	
3.		0	0.0%	OBL species	20 x 1		
4.		0	0.0%	FACW species	80 x 2		•
5.		0	0.0%	FAC species	0 x 3		
		0	= Total Cover	FACU species	x 4	_ 0	_
Herb Stratum (Plot size:)		_	UPL species	x 5	_ 0	_
1. Juncus balticus			✓ 40.0% FACW		: 100 (A)	180	(B)
2. Carex praegracilis			✓ 30.0% FACW				. (-)
3. Carex nebrascensis			✓ 20.0% OBL	Prevalence	Index = B/A =	_1.800_	
4. Muhlenbergia asperifolia 5.			10.0% FACW		etation Indicators	:	
6.			0.0%	✓ Dominance			
7.			0.0%		Index is ≤3.0 ¹		
8.			0.0%		cal Adaptations ¹ (narks or on a separ		orting
9.		0	0.0%		: Hydrophytic Vege		
10.		0	0.0%	Problemation	c Hydropnytic vege	station (Exp	olain)
11.		0	0.0%				
		100	= Total Cover		nydric soil and wet		gy must
Woodv Vine Stratum (Plot size:)			де разони, што	oo alotal boa o. p		
1		0	0.0%				
2			0.0%	Hydrophytic Vegetation	_		
		0	= Total Cover	Present?	Yes No		
% Bare Ground in Herb Stratum	n: <u>0</u>	% Cover of Bioti	ic Crust 0				
Remarks:				-			
The area meets the vegetation crit	eria.						
Section of the sect	•						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (I	Describe to t	he depth ne	eded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth	Matrix			ox Featu			-	
	r (moist)	<u>%</u>	Color (moist)	%	_Tvpe 1	Loc ²	Texture	Remarks
0-7 10YR	2/1						Loam	
7-20 10YR	4/1						Clay Loam	
				-				
1 Type: C=Concentration	. D=Depletion	n. RM=Reduce	d Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators	s: (Applicab	le to all LRR	s, unless otherwis	e noted.))		Indicators for Problematic Hy	dric Soils:3
Histosol (A1)			Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2))		Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3) Hydrogen Sulfide (A	4)		Loamy Mucky I				Reduced Vertic (F18)	
Stratified Layers (A5	•		Loamy Gleyed		2)		Red Parent Material (TF2)	
1 cm Muck (A9) (LR			Depleted Matri	` ,			✓ Other (Explain in Remarks)	
Depleted Below Dar	•	1)	Redox Dark Su					
Thick Dark Surface	(A12)	,	Depleted Dark		F/)			
Sandy Muck Mineral	(S1)		Redox depress Vernal Pools (F				³ Indicators of hydrophytic vegeta	ation and
Sandy Gleyed Matrix	(S4)		vernai Poois (i	-9)			wetland hydrology must be pr	esent.
Restrictive Layer (if p	resent):							
Туре:								
Depth (inches):							Hydric Soil Present? Yes	No 🔾
Remarks:								
Soils do not exhibit an	y typical hyd	ric soil indica	ators, but the soils	are satu	rated in th	e upper p	rofile during the dry season, meet	ing the definition of a
hydric soil.	, ,,							
Hydrology								
Wetland Hydrology Ir	dicators:							
Primary Indicators (n		ne required:	check all that ann	ılv)			Secondary Indicators (2	or more required)
Surface Water (A1)		nio roganioa j	Salt Crust (B				Water Marks (B1) (Rive	
High Water Table (A	12)		Biotic Crust	(B12)			Sediment Deposits (B2)	,
✓ Saturation (A3)			Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Rive	rine)
☐ Water Marks (B1) (N	lonriverine)		Hydrogen Su	Ifide Odo	r (C1)		☐ Drainage Patterns (B10)
Sediment Deposits	(B2) (Nonriver	ine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3	B) Dry Season Water Table	e (C2)
Drift deposits (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)	
Surface Soil Cracks	(B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Ae	erial Imagery (C9)
Inundation Visible of	n Aerial Imag	ery (B7)	Thin Muck S	urface (C7)		Shallow Aquitard (D3)	
Water-Stained Leave	es (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)	
Field Observations:		0 0						
Surface Water Present?	Yes		Depth (incl	nes):		_		
Water Table Present?	Yes	○ No ●	Depth (incl	nes):		_		
Saturation Present?	Yes (● No ○	Depth (incl	nes).	10	Wetla	and Hydrology Present? Yes	● No ○
(includes capillary fringe)							
Describe Recorded Da	ita (stream i	gauge, monit	or well, aerial pho	tos, prev	nous inspe	ctions), if	available:	
Domarks								
Remarks:								
Soils are saturated in	me upper pi	one.						

roject/Site: I-15 Payson Main Street Interchang	e EIS	City/County: Payson/Ut	iah Sai	mpling Date: 14-Oct-15
pplicant/Owner: Utah Department of Transpor	tation		State: UT	Sampling Point: 47
nvestigator(s): Todd Sherman		Section, Township, I	Range: S 4 T 9S	R 2E
Landform (hillslope, terrace, etc.): Valley b	ottom	Local relief (concave,	, convex, none): flat	Slope:1.0 % /0
ubregion (LRR): LRR D		438754	Long.: 4435655	Datum: NAD83
pil Map Unit Name: Ironton loam			NWI classifica	tion: Unland
e climatic/hydrologic conditions on the site	typical for this time of t	ear? Yes No		
			Normal Circumstances" pres	
			•	
re Vegetation			eeded, explain any answers i	•
Hydrophytic Vegetation Present? Yes				——————————————————————————————————————
Hydric Soil Present? Yes		Is the Sampled		
Wetland Hydrology Present? Yes	_	within a Wetlar	nd? Yes ○ No •	
, ,,				
Remarks: Upland area adjacent to SP-46				
VEGETATION - Use scientific na	mes of plants.	Dominant		
	<u>'</u>	Species?	Dominance Test workshe	
Tree Stratum (Plot size:)	Abso % Co			
1		0.0%	Number of Dominant Species That are OBL, FACW, or FAC	
2		0.0%	Total Number of Deminent	
3		0.0%	Total Number of Dominant Species Across All Strata:	1(B)
4	0	0.0%		
Sapling/Shrub Stratum (Plot size:	0	= Total Cover	Percent of dominant Spec That Are OBL, FACW, or	
1.		0.0%	Prevalence Index worksh	
2.			Total % Cover of:	Multiply by:
3.	0		OBL species 0	
4.		0.0%	FACW species 20	
5.	0	0.0%	FAC species 10	
	0	= Total Cover	FACU species 0	
Herb Stratum (Plot size:)		_	UPL species 70	x 5 = 350
1. Agropyron elongatum			Column Totals: 100	
2. Muhlenbergia asperifolia				
Hordeum jubatum Juncus balticus			Prevalence Index = E	
5.			Hydrophytic Vegetation I	
6.			Dominance Test is > Prevalence Index is	
7.				
8.		0.0%	Morphological Adapt data in Remarks or o	ations ¹ (Provide supporting on a separate sheet)
9.		0.0%	Problematic Hydroph	nytic Vegetation ¹ (Explain)
10. 11.				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		0.0%	1 Indicators of budrio soi	I and wetland hydrology must
	10	= Total Cover	be present, unless distur	
Woodv Vine Stratum (Plot size:				
1 2.				
۷.	0		Hydrophytic Vegetation	
		-		
% Bare Ground in Herb Stratum:	0	= Total Cover Biotic Crust 0	Present? Yes	No •

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Isidso (Art) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S1) Cosmy Gleyed Matrix (F2) Reduced Vertic (F18) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F2) Redox depressions (F8) Sandy Muck Mineral (S1) Strictive Layer (if present): Hydric Soil Present? Yes No					-				
ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. Di Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4)	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Depth (inches): Depth	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • • •							
Permarks: In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Stained Leaves (B9) Other (Explain in Remarks) PAC-neutral Test (D5) Indicators of hydric soil. Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Prescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:		ies).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water (A2) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Priff Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Priff Deposits (B3) Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Drainage Patterns (B10) D	ydrology	<i>'</i>							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

	Section, Township, R	State: UT	Sampling Point: 9S R 2E	48
	Section, Township, R	ange: S 4 T	0S D 2E	
			73 K ZL	
	Local relief (concave,	convex, none): concav	/e Slope:	1.0 % / 0.
Lat .: 438	8807	Long.: 4435357	Datu	m: NAD83
		NWI clas	sification: PEM	-
this time of year?	Yes No			
significantly d	isturbed? Are "N	lormal Circumstances"	present? Yes •	No 🔾
naturally prob			•	
	•	•		atures, etc.
		•		
	is the Sampled F			
	within a Wetland	d? Yes S No C		
of a large wetland	aamalay			
or a large wellariu	complex.			
olants.	Dominant			
Absolute		Dominance Test wo	rksheet:	
% Cover	Cover Status	Number of Dominant S	species	
	0.0%	That are OBL, FACW, of	or FAC:1	(A)
		Total Number of Domi	nant	
				(B)
		Percent of dominant	t Spacies	
0	= Total Cover			0%(A/B)
0	0.0%	Prevalence Index w	nrkshoot:	
	0.0%			
0	0.0%			0
0	0.0%	_		200
0	0.0%		0 x 3 =	0
0	= Total Cover	FACU species	0 x 4 =	0
		•	0 x 5 =	0
			100 (A)	200 (B)
		_		
				<u>JU</u>
		,		
0	0.0%			
0	0.0%	data in Remark	adaptations (Provide s or on a separate she	et)
0	0.0%			_
	0.0%	,	. , ,	
		1 Indicators of hydr	ic soil and wotland by	drology must
100	= Total Cover			
		I budaa abudia		
		Veretetion		
		Present? Yes	, 💌 NO 🔾	
% Cover of Biotic	Crust 0			
	significantly de naturally prob na	significantly disturbed? Are "Normal significantly disturbed? (If new possible problem stic? (If new possible problem stic.)	significantly disturbed? Are "Normal Circumstances" naturally problematic? (If needed, explain any answ problematics of the sampled area within a Wetland? Species? Absolute Rel. Strat. Species? Absolute Rel. Strat. Indicator % Cover Status O 0 0.0% O	significantly disturbed? Are "Normal Circumstances" present? Yes

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth -	Matrix		Red	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/1	100%					Loam	
				-				
				-				
						211	in Di Don Linion M Matri	
<u> </u>						ns ² Locat	ion: PL=Pore Lining. M=Matri	
7	dicators: (Applicab	le to all LRRs					Indicators for Problem	atic Hydric Soils: ³
Histosol (A			Sandy Redox ((S5)			1 cm Muck (A9) (LRR	C)
Histic Epipe			Stripped Matrix	x (S6)			2 cm Muck (A10) (LRI	R B)
J Black Histic	• •		Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)	
∫ Hydrogen S			Loamy Gleyed	Matrix (F2	<u>'</u>)		Red Parent Material (ΓF2)
Stratified La	ayers (A5) (LRR C)		Depleted Matri	ix (F3)			✓ Other (Explain in Ren	,
1 cm Muck	(A9) (LRR D)		Redox Dark Su				U Other (Explain in Ren	idi NJ)
Depleted B	elow Dark Surface (A1	1)	Depleted Dark					
Thick Dark	Surface (A12)		Redox depress		•)			
Sandy Mucl	k Mineral (S1)						3 Indicators of hydrophyti	c vegetation and
	ed Matrix (S4)		Vernal Pools (I	-9)			wetland hydrology mu	st be present.
	yer (if present):							
	yer (ii present):							
Type:							Hydric Soil Present?	Yes ● No ○
Depth (inche	es):							103 0 110 0
oils do not ex	hibit any typical hyc	dric soil indica	tors, but the soils	are satu	rated in th	e upper pr	ofile during the dry season	, meeting the definition of
ils do not ex	hibit any typical hyc	ric soil indica	tors, but the soils	are satu	rated in th	e upper pr		, meeting the definition of
ils do not ex dric soil.		ric soil indica	tors, but the soils	are satu	rated in th	e upper pr		, meeting the definition of
ils do not ex dric soil.		ric soil indica	tors, but the soils	are satu	rated in th	e upper pr		, meeting the definition of
ills do not ex dric soil. ydrology /etland Hydro	ology Indicators:				rated in th	e upper pr	ofile during the dry season	
ils do not ex dric soil. ydrology letland Hydro	ology Indicators: ators (minimum of o		check all that app	oly)	rated in th	e upper pr	ofile during the dry season	ors (2 or more required)
ydrology /etland Hydrology Surface Wa	ology Indicators: ators (minimum of o		check all that app	oly) 11)	rated in th	e upper pr	ofile during the dry season Secondary Indicat Water Marks (B	ors (2 or more required) I) (Riverine)
ydrology etland Hydrology Surface Wa High Water	ology Indicators: ators (minimum of o ter (A1) Table (A2)		check all that app Salt Crust (B	oly) -11) (B12)		e upper pr	Secondary Indicat Water Marks (B) Sediment Depos	ors (2 or more required) 1) (Riverine) sits (B2) (Riverine)
ydrology ydrology yetland Hydro imary Indica Surface Wa High Water	ology Indicators: ators (minimum of oter (A1) Table (A2)		check all that app Salt Crust (B Biotic Crust Aquatic Inve	oly) 111) (B12) rtebrates ((B13)	e upper pr	Secondary Indicat Water Marks (B' Sediment Deposits (I	ors (2 or more required) 1) (Riverine) iits (B2) (Riverine) 33) Riverine)
ydrology etland Hydro imary Indica Surface Wa High Water Saturation Water Mark	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) ss (B1) (Nonriverine)	one required;	check all that app Salt Crust (B Biotic Crust Aquatic Inve	oly) 11) (B12) rtebrates ((B13) (C1)		Secondary Indicat Sediment Depos Drift Deposits (I	ors (2 or more required) 1) (Riverine) iits (B2) (Riverine) 33) Riverine)
drology etland Hydro imary Indica Surface Wa High Water Saturation Water Mark	ology Indicators: ators (minimum of oter (A1) Table (A2)	one required;	check all that app Salt Crust (B Biotic Crust Aquatic Inve	oly) 11) (B12) rtebrates ((B13) (C1)		Secondary Indicat Sediment Depos Drift Deposits (I	ors (2 or more required) I) (Riverine) iits (B2) (Riverine) B3) Riverine) ns (B10)
ydrology etland Hydro Surface Wa High Water Saturation Water Mark Sediment D	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) ss (B1) (Nonriverine)	one required;	check all that app Salt Crust (B Biotic Crust Aquatic Inve	oly) 11) (B12) rtebrates (ulfide Odor zospheres	(B13) · (C1) along Living		Secondary Indicat Sediment Depos Drift Deposits (I	ors (2 or more required) I) (Riverine) sits (B2) (Riverine) 33) Riverine) ns (B10) er Table (C2)
ydrology Vetland Hydro Surface Wa High Water Saturation Water Mark Sediment D Drift deposi	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) ss (B1) (Nonriverine)	one required;	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su V Oxidized Rhi	oly) 11) (B12) rtebrates (ulfide Odor zospheres Reduced I	(B13) · (C1) along Living ron (C4)	Roots (C3)	Secondary Indicat Sediment Deposits (I Drainage Patter Dry Season Wat Crayfish Burrow	ors (2 or more required) I) (Riverine) sits (B2) (Riverine) 33) Riverine) ns (B10) er Table (C2)
ydrology Yetland Hydro Surface Wa High Water Water Mark Sediment D Drift deposi	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) (A3) (A3) (A3) (A3) (A3) (A3) (A3	one required; rine)	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of	oly) 111) (B12) rtebrates (ulfide Odor zospheres Reduced II	(B13) (C1) along Living ron (C4) in Plowed S	Roots (C3)	Secondary Indicat Secondary Indicat Water Marks (B: Sediment Deposits (I: Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib	cors (2 or more required) 1) (Riverine) 1) (Riverine) 133) Riverine) 15 (B10) 16 Table (C2) 17 (C8) 18 on Aerial Imagery (C9)
ydrology etland Hydro Surface Wa High Water Water Mark Sediment D Drift deposi	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverine) I Cracks (B6) Visible on Aerial Imag	one required; rine)	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7	(B13) (C1) along Livinç ron (C4) in Plowed S	Roots (C3)	Secondary Indicat Water Marks (B) Sediment Deposits (I) Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Shallow Aquitar	ors (2 or more required) I) (Riverine) iits (B2) (Riverine) 33) Riverine) as (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) d (D3)
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ydrology Yetland Hydro Surface Wa High Water Sediment D Drift deposi Surface Soi Inundation Water-Stair	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) ss (B1) (Nonriverine) Deposits (B2) (Nonriverits (B3) (Noneriverine) I Cracks (B6) Visible on Aerial Imagned Leaves (B9) tions:	one required; rine) ery (B7)	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	oly) 111) (B12) rtebrates (ulfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	(B13) (C1) along Livinç ron (C4) in Plowed S	Roots (C3)	Secondary Indicat Water Marks (B) Sediment Deposits (I) Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Shallow Aquitar	ors (2 or more required) (1) (Riverine) (3) Riverine) (3) Riverine) (3) Riverine) (4) (B10) (6) (C2) (7) (C3) (8) (C9) (9) (C9) (1) (D3)
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ydrology /etland Hydro Primary Indica Surface Wa High Water Water Mark Sediment D Drift deposi Surface Soi Inundation Water-Stain iteld Observation water Table Presencludes capilla	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) Sts (B1) (Nonriverine) Deposits (B2) (Nonriverine) I Cracks (B6) Visible on Aerial Imagened Leaves (B9) tions: Present? Present? Yes (Present? Yes (Present)	one required; rine) ery (B7) No No No No	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remainshes):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	Roots (C3)	Secondary Indicat Water Marks (B Sediment Depos Drift Deposits (I Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Shallow Aquitan FAC-neutral Tes	ors (2 or more required) (1) (Riverine) (3) Riverine) (3) Riverine) (3) Riverine) (4) (B10) (6) (C2) (7) (C3) (8) (C9) (9) (C9) (1) (D3)
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ydrology Vetland Hydro Primary Indica Surface Wa High Water Saturation Water Mark Sediment D Drift deposi Surface Soi Inundation Water-Stair ield Observat urface Water P	ology Indicators: ators (minimum of oter (A1) Table (A2) (A3) Sts (B1) (Nonriverine) Deposits (B2) (Nonriverine) I Cracks (B6) Visible on Aerial Imagened Leaves (B9) tions: Present? Present? Yes (Present? Yes (Present)	one required; rine) ery (B7) No No No No	check all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	oly) 11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Remainshes):	(B13) (C1) along Living ron (C4) in Plowed S) arks)	Roots (C3)	Secondary Indicat Water Marks (B Sediment Depos Drift Deposits (I Drainage Patter Dry Season Wat Crayfish Burrow Saturation Visib Shallow Aquitan FAC-neutral Tes	Ors (2 or more required) (1) (Riverine) (its (B2) (Riverine) (33) Riverine) (ns (B10) (er Table (C2) (s (C8) (e on Aerial Imagery (C9) (d (D3) (t (D5)

Project/Site: 1-15 Payson Main Street Interc	change EIS	Ci	ty/County: Payson/U	ah	Sampli	ing Date: <u>14-C</u>	oct-15
Applicant/Owner: Utah Department of Tran	nsportation			State: UT	Sam	pling Point:_	49
Investigator(s): Todd Sherman			Section, Township,	Range: S 4	T 9S	R 2E	
Landform (hillslope, terrace, etc.): Vall	ley bottom	!	Local relief (concave	, convex, none): fla	t	Slope:	1.0 % / 0.
Subregion (LRR): LRR D		Lat.: 438	806	Long.: 4435778	,	 Datun	n: NAD83
Soil Map Unit Name: Ironton loam				NWI	classification	: Upland	
re climatic/hydrologic conditions on the	site typical for this	time of year?	Yes No	(If no, expl	ain in Remar	ks.)	
Are Vegetation, Soil, or	r Hydrology	significantly d	isturbed? Are '	Normal Circumstan	ces" present	? Yes ⊙	No \bigcirc
-		naturally prob		eeded, explain any a	·		
Summary of Findings - Attac			•				itures, etc.
Hydrophytic Vegetation Present? You	es O No 💿		In the Commission	Area			
Hydric Soil Present? You	es O No 💿		Is the Sampled	Vaa O Na	. 🝙		
Wetland Hydrology Present? You	es O No 💿		within a Wetla	nd? fes ○ Nu			
Remarks: Upland area adjacent to S							
opiana area adjacent to 3	1 -40.						
VEGETATION - Use scientifi	c names of plar	nts.	Dominant				
		Absolute	-Species? ———— Rel.Strat. Indicato	Dominance Test	worksheet:		
Tree Stratum (Plot size:	_)	% Cover	Cover Status	Number of Domina	ant Species		
1		0		That are OBL, FAC	W, or FAC:	1_	(A)
2				Total Number of D	Oominant		
3. 4.		0_ [Species Across All	Strata:	3	(B)
T		0	0.0%	Percent of domi	nant Species		
Sapling/Shrub Stratum (Plot size:)	=	= Total Cover	That Are OBL, F.			% (A/B)
1.		0 [0.0%	Prevalence Inde	x worksheet:		
2.			0.0%	Total % Co		Multiply by:	
3.		0 [0.0%	OBL species	0	_	0
4.		0	0.0%	FACW species	20	x 2 =	40
5		0[0.0%	FAC species	0	x 3 =	0
		0 =	= Total Cover	FACU species	20	x 4 =	30
Herb Stratum (Plot size:)			UPL species	60	x 5 =3	00
1. Agropyron elongatum			<u>✓ 60.0% UPL</u>	Column Totals	: 100	(A) 4	20 (B)
			✓ 20.0% FACW FACU	Provalence	Index = B/A		
 Bromus arvensis 4. 		0	<u>✓ 20.0%</u> <u>FACU</u> 0.0%	-			<u>J</u>
5.			0.0%	Hydrophytic Veg	etation Indic Test is > 50°		
6.			0.0%		Index is ≤3.		
7.		0	0.0%			ons ¹ (Provide	
8.		0[0.0%	data in Rem	narks or on a	separate shee	t)
9.		0[0.0%	Problemation	: Hydrophytic	c Vegetation 1	(Explain)
10. 11.		0		. _		· ·	
				1 Indicators of h	avdric soil an	d wetland hyd	rology must
		100 =	= Total Cover	be present, unle			
Woodv Vine Stratum (Plot size:			¬				
1		0					
2			0.0%	Hydrophytic Vegetation	,		
			= Total Cover	Present?	Yes O N	lo	
% Bare Ground in Herb Stratum: 0	%	Cover of Biotic	Crust 0				
Remarks:							
The area does not meet the vegetation	criteria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
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ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. Di Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4)	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Depth (inches): Depth	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • • •							
Permarks: In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Stained Leaves (B9) Other (Explain in Remarks) PAC-neutral Test (D5) Indicators of hydric soil. Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Prescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:		ies).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water (A2) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Priff Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Priff Deposits (B3) Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Drainage Patterns (B10) D	ydrology	<i>'</i>							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

Project/Site: I-15 Payson Main Street I	nterchange EIS	Ci	ty/County: Payson/Uta	h	Sampling Dat	e: 14-Oct-15	
Applicant/Owner: Utah Department of	Transportation		-	State: UT	Sampling F	Point: 50	
Investigator(s): Todd Sherman			Section, Township, Ra	ange: S 33	T 8S R 2	E	
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief (concave, o	convex, none): cor	ncave Slo	pe:1.0_% /	0.6
Subregion (LRR): LRR D		Lat.: 438	887	Long.: 4435843		Datum: NAD83	
Soil Map Unit Name: Ironton loam					classification: PEM		
re climatic/hydrologic conditions on	the site typical for	this time of year?	Yes No		ain in Remarks.)		_
Are Vegetation, Soil	, or Hydrology	significantly d		lormal Circumstand		es No	
		_			p		
Are Vegetation	, or Hydrology tach site ma	· .	•		answers in Remarks ects, importai		etc.
Hydrophytic Vegetation Present?	Yes No				<u> </u>	<u> </u>	
Hydric Soil Present?	Yes No)	Is the Sampled A	area a₂ Yes ● No	\bigcirc		
Wetland Hydrology Present?	Yes No)	within a Wetland	_{d?} Yes S No			
Remarks: Palustrine emergent v	votland created by	a ground water see	n				
raiusti ille emergent v	vetiand created by	a ground water see	ρ.				
VEGETATION - Use scien	ntific names of	olants.	Dominant				
		Absolute	Species? ————————————————————————————————————	Dominance Test	worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Domina	ant Species		
1				That are OBL, FAC	•	3(A)	
2				Total Number of D	ominant		
3 4.			0.0%	Species Across All	Strata:	3(B)	
-			0.0%	Percent of domin	nant Species		
Sapling/Shrub Stratum (Plot size:)		= Total Cover	That Are OBL, FA		100.0% (A/B)
1.		0 [0.0%	Prevalence Index	v worksheet:		
2.		0 [0.0%	Total % Co		ly by:	
3.		0	0.0%	OBL species	20 x 1 :		
4.		0	0.0%	FACW species		= 160_	
5			0.0%	FAC species	x 3 :	= 0	
		0 =	= Total Cover	FACU species	0 x 4 :	0	
Herb Stratum (Plot size:)			UPL species	0 x 5 :	0	
1. Juncus balticus			✓ 50.0% FACW		: <u>100</u> (A)	180 (B)
Carex praegracilis Ranunculus sceleratus			✓ 30.0% FACW ✓ 20.0% OBL	Provalence I	Index = B/A =	1.800	
4.		0	0.0%			1.000	
5.		0	0.0%	✓ Dominance	etation Indicators:		
6.		0	0.0%		Index is ≤3.0 ¹		
7.		0	0.0%	_	cal Adaptations ¹ (F	Provide cupporting	
8.			0.0%		narks or on a separa		
9. 10.			0.0%	☐ Problemation	: Hydrophytic Veget	ation ¹ (Explain)	
11.							
				¹ Indicators of h	nydric soil and wetla	and hydrology mus	st
(Dlata)	,	100 :	= Total Cover		ess disturbed or pro		
Woodv Vine Stratum (Plot size:)	0					
1 2.			0.0%	Hydrophytic			
_ _ ,				Vegetation	Yes ● No ○		
		^	- Total Cover				
			= Total Cover	Present?	yes • No ·		
% Bare Ground in Herb Stratum	:_0	0 : % Cover of Biotic		Present?	Yes No		
% Bare Ground in Herb Stratum Remarks: The area meets the vegetation crit				Present?	Yes No		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description	on: (Describe to	the depth nee	ded to document	the indi	cator or co	nfirm the	absence of indicators.)	
Depth	Matrix			ox Featu			-	
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Tvpe 1	Loc ²		Remarks
0-7	10YR 2/1	100%					Loam	
7-20	10YR 4/1	100%					Clay Loam	
1 Type: C=Concenti	ration. D=Depletion	on. RM=Reduced	Matrix, CS=Covere	d or Coate	ed Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
			, unless otherwis				Indicators for Problematic Hydri	r Soils 3
Histosol (A1)	• • •		Sandy Redox (1 cm Muck (A9) (LRR C)	30113.
Histic Epipedor	n (A2)		Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A:	3)		Loamy Mucky		1)		Reduced Vertic (F18)	
Hydrogen Sulfi	ide (A4)		Loamy Gleyed				Red Parent Material (TF2)	
Stratified Layer	rs (A5) (LRR C)		☐ Depleted Matri				✓ Other (Explain in Remarks)	
1 cm Muck (A9	9) (LRR D)		Redox Dark Su				Other (Explain in Remarks)	
Depleted Below	w Dark Surface (A	11)	☐ Depleted Dark	Surface (I	F7)			
Thick Dark Sur	` ,		Redox depress				3	
Sandy Muck Mi			Vernal Pools (I	- 9)			Indicators of hydrophytic vegetation wetland hydrology must be present	n and
Sandy Gleyed I	Matrix (S4)						wettand flydrology must be presen	н.
Restrictive Layer	(if present):							
Type:							Hydric Soil Present? Yes	No O
Depth (inches):			_				Hydric Soil Present? Yes Yes	NO U
Remarks:								
Soils do not exhib	it any typical hy	dric soil indica	tors, but the soils	are satu	rated at th	e surface	during the dry season, meeting the d	efinition of a
hydric soil.								
Hydrology								
Wetland Hydrolo	gy Indicators:							
_		one required:	check all that app	dv)			Secondary Indicators (2 or	more required)
Surface Water		one required,	Salt Crust (B				Water Marks (B1) (Riverine	
High Water Ta	` '		Biotic Crust	•			Sediment Deposits (B2) (Ri	
Saturation (A3			Aquatic Inve		(B13)		Drift Deposits (B3) Riverine	,
	B1) (Nonriverine)		Hydrogen Su				Drainage Patterns (B10)	,
	osits (B2) (Nonrive	erine)	Oxidized Rhi			g Roots (C3		2)
Drift deposits ((B3) (Noneriverine	.)	Presence of		-		Crayfish Burrows (C8)	,
Surface Soil Cr		,	Recent Iron			Soils (C6)	Saturation Visible on Aerial	Imagery (C9)
Inundation Vis	ible on Aerial Ima	gery (B7)	☐ Thin Muck S				Shallow Aquitard (D3)	3, 3 (, ,
Water-Stained	Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test (D5)	
Field Observation	ne:		-					
Surface Water Pres	V	O No •	Depth (inc	nes):				
			•			_		
Water Table Presen	_		Depth (inc	nes):	6	Wetla	and Hydrology Present? Yes	No O
Saturation Present? (includes capillary f	YAS	● No ○	Depth (inc	nes):	0	_		
		gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if	available:	
Remarks:								
The soils were sa	aturated at the s	urface with a	shallow water tah	e.				
30113 77010 30			water tab					

Project/Site: I-15 Payson Main Street Interchange	_13	City/County: Payson/Uta	an :	Sampling Date: 14-Oct-	15
Applicant/Owner: Utah Department of Transporta	ion		State: UT	Sampling Point:	51
Investigator(s): Todd Sherman		Section, Township, R	ange: \$ 33 T_89	R 2E	
Landform (hillslope, terrace, etc.): Valley bot	tom	Local relief (concave,	convex, none): flat	Slope:	1.0 % / 0.0
Gubregion (LRR): LRR D	Lat.: 4;	38880	Long.: 4435841	Datum:	NAD83
soil Map Unit Name: Ironton loam			NWI classif	ication: Upland	
e climatic/hydrologic conditions on the site ty	pical for this time of year	? Yes • No	(If no, explain in	Remarks.)	
Are Vegetation \square , Soil \square , or Hydro	ology	disturbed? Are "N	Normal Circumstances" pr	esent? Yes • N	0
Are Vegetation 🔲 , Soil 🗌 , or Hydro	ology	oblematic? (If ne	eded, explain any answe	rs in Remarks)	
Summary of Findings - Attach sit		•			ıres, etc.
Hydrophytic Vegetation Present? Yes	No •	Is the Sampled		· · ·	
Hydric Soil Present? Yes	No •		Vec O Ne 📵		
Wetland Hydrology Present? Yes	No 💿	within a Wetlan	d? res o No o		
Remarks: Upland area adjacent to SP-50.					
opiana area adjacent to or co.					
VEGETATION - Use scientific nan	nes of plants.	Dominant Species?			
(0)	Absolute	Rel.Strat. Indicator	Dominance Test works	sheet:	
	% Cove		Number of Dominant Spe		
1 2.		0.0%	That are OBL, FACW, or F	AC: 0	(A)
3.		0.0%	Total Number of Dominar		
4.		0.0%	Species Across All Strata:	1	(B)
	0	= Total Cover	Percent of dominant S That Are OBL, FACW, ((A/B)
Sapling/Shrub Stratum (Plot size:			That Are Obl., FACW, (JI FAC	
1		0.0%	Prevalence Index work		
2		0.0%	Total % Cover of		
4.	0	0.0%		0 x 1 = 0	_
5.		0.0%		10 x 2 =20	
				$\frac{0}{x} = \frac{0}{x}$	_
Herb Stratum (Plot size:)	0	= Total Cover		$\frac{0}{0}$ x 4 = $\frac{0}{0}$	_
1. Agropyron elongatum	90	✓ 90.0% UPL	or L species	$90 \times 5 = 450$	_
2. Juncus balticus		10.0% FACW	Column Totals:1	<u>00</u> (A) <u>470</u>	_ (B)
3		0.0%	Prevalence Index	= B/A = <u>4.700</u>	
4	^	0.0%	Hydrophytic Vegetation	n Indicators:	
5	0	0.0%	Dominance Test is	s > 50%	
6. 7.		0.0%	Prevalence Index	is ≤3.0 ¹	
7 8		0.0%	Morphological Ada	aptations ¹ (Provide su	porting
9.		0.0%		or on a separate sheet)	
10.		0.0%	Problematic Hydro	ophytic Vegetation ¹ (E	xplain)
11.		0.0%			
	100	= Total Cover		soil and wetland hydrol	ogy must
(Plot size:			be present, unless dist	urbed or problematic.	
1		0.0%			
2.	0	0.0%	Hydrophytic		
	0	= Total Cover	Vegetation Present? Yes	○ No •	
% Bare Ground in Herb Stratum: ∩	% Cover of Biot	ic Crust 🕜			
% Bare Ground in Herb Stratum: 0	% Cover of Biot	ic Crust 0			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix		Red	lox Featu				
(inches) Color (moist)		Color (moist)	%	_Tvpe ¹	Loc2	Texture	Remarks
0-20 10YR 3/2	100%					Loam	
							
Type: C=Concentration. D=Deplet	ion DM Podusor	d Matrix CS Covers	d or Coats	d Sand Crain		ion, DL Poro Lining M Matr	lv.
•					S -LUCAI		
lydric Soil Indicators: (Application (Application (A1))	able to all LRRS			1		Indicators for Problem	
Histic Epipedon (A2)		Sandy Redox (Stripped Matrix				1 cm Muck (A9) (LRR	•
Black Histic (A3)				1\		2 cm Muck (A10) (LR	R B)
Hydrogen Sulfide (A4)		Loamy Mucky I				Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)		Loamy Gleyed Depleted Matri		(1)		Red Parent Material (•
1 cm Muck (A9) (LRR D)		= '	` ,			Other (Explain in Ren	narks)
Depleted Below Dark Surface (A	A11)	Redox Dark Su					
Thick Dark Surface (A12)		Depleted Dark		-7)			
Sandy Muck Mineral (S1)		Redox depress				³ Indicators of hydrophyt	ic vegetation and
Sandy Gleyed Matrix (S4)		Vernal Pools (F	F9)			wetland hydrology mu	st be present.
estrictive Layer (if present):							
Type:							
Depth (inches):						Hydric Soil Present?	Yes ○ No •
		_				nyunc son Present?	163 0 110 0
'emarks						nyunc 3011 Present?	Tes C NO C
Remarks:						nyunc son Present?	Tes C NO C
Remarks: o indicators of hydric soil.						nyunc son Present?	TES O NO O
		_				nyunc son Present?	TES C NO C
						nyunc son Present?	TES C NO C
indicators of hydric soil.		_				nyunc son Present?	TES C NO C
o indicators of hydric soil.						nyunc son Present?	TES C NO C
ydrology /etland Hydrology Indicators:	f and required	check all that app	oliv)			•	
ydrology Tetland Hydrology Indicators: rimary Indicators (minimum o	f one required;					_Secondary Indica	tors (2 or more required)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	f one required;	Salt Crust (B	311)			Secondary Indica Water Marks (B	tors (2 or more required) 1) (Riverine)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2)	f one required;	Salt Crust (B	(B12)	/P12\		Secondary Indica Water Marks (B	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	311) (B12) ertebrates (Secondary Indica Water Marks (B Sediment Depo Drift Deposits (tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine)
vdrology Tetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)		Salt Crust (B Biotic Crust (Aquatic Inve	(B12) ertebrates (ulfide Odor	(C1)	Doots (C2)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	(B12) ertebrates (ulfide Odor izospheres	(C1) along Living	Roots (C3)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter) Dry Season Wa	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2)
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	(B12) ertebrates (ulfide Odor izospheres Reduced I	c (C1) along Living ron (C4)		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter) Dry Season Wa Crayfish Burrow	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) s (C8)
ydrology /etland Hydrology Indicators: Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Interrepretation of the content	(C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverin Surface Soil Cracks (B6) Inundation Visible on Aerial Im	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Yetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Yetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Vetland Hydrology Indicators: rrimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	it1) (B12) Intebrates (Ilfide Odor (zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Vetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) Vetal Control of the Control	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpreted in the state of the state	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imwater-Stained Leaves (B9) ield Observations: urface Water Present? Yes //ater Table Present?	verine) ue) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) interpreted	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) iteld Observations: urface Water Present? /etaturation Present?	verine) le) agery (B7) S No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) interpreted	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Tes	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Immudation Vi	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Pay	son/Utah	Sampling Date	:: 14-Oct-15
pplicant/Owner: Utah Department of Transportation		State: UT	Sampling P	oint: 52
nvestigator(s): Todd Sherman	Section, Towns	ship, Range: S 33	T_8S R_2E	<u> </u>
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (cor	ncave, convex, none): COr	cave Slop	e: <u>1.0</u> % /_
ubregion (LRR): LRR D	Lat.: 438887	Long.: 4435843		Datum: NAD83
pil Map Unit Name: Ironton loam		NWI o	lassification: PEM	
e climatic/hydrologic conditions on the site typical for the	is time of year? Yes •	No (If no, expla	in in Remarks.)	
re Vegetation , Soil , or Hydrology	significantly disturbed?	Are "Normal Circumstance	es" present? Ye	s • No O
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲	naturally problematic?	(If needed, explain any a	nswers in Remarks.)
Summary of Findings - Attach site map				
Hydrophytic Vegetation Present? Yes No				
Hydric Soil Present? Yes No	Is the San	mpled Area		
Wetland Hydrology Present? Yes • No •	within a V	Netland? Yes No	0	
Remarks: Palustrine emergent wetland created by a c	round water seep.			
/EGETATION - Use scientific names of pl				
	Species? ————————————————————————————————————	dicator Dominance Test	worksheet:	
Tree Stratum (Plot size:)		Number of Domina		
1		That are OBL, FAC	N, or FAC:	2 (A)
3.		Total Number of D	ominant	
4.		Species Across All	Strata:	(B)
<u></u>		Percent of domir	ant Species	
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, FA	CW, or FAC:	100.0% (A/B)
1.	0 0.0%	Prevalence Index	worksheet:	
2.	0 0.0%	Total % Co	ver of: Multipl	y by:
3	0 0.0%	OBL species	75 x 1 =	
4.	0 0.0%	FACW species	25 x 2 =	50
5.	00.0%	FAC species	0 x 3 =	0
	0 = Total Cover	FACU species	0 x 4 =	0
Herb Stratum (Plot size:)		UPL species	x 5 =	0
1. Eleocharis palustris	40 _40.0%OE	Column Totals:	100 (A)	125 (B)
2. Carex nebrascensis		<u>BL</u>		
Juncus balticus Polypogon monspeliensis		1014/	ndex = B/A =	1.250_
5.	0 0.0%	Hydrophytic veg	etation Indicators:	
6.	0 0.0%		Test is > 50% Index is ≤3.0 ¹	
7.	0 0.0%			
8.	0 0.0%		al Adaptations ¹ (Pi arks or on a separat	
9.	0 0.0%		Hydrophytic Vegeta	
10.	00.0%		riyaropriyao rogoa	(Explain)
11.	0			
	100 = Total Cover		ydric soil and wetla ss disturbed or prob	
Woodv Vine Stratum (Plot size:)	_	• •	·	
1	0			
2	00.0%	Hydrophytic Vegetation		
	0 = Total Cover	Present?	Yes ● No ○	
% Bare Ground in Herb Stratum: 0	Cover of Biotic Crust 0			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descript	ion: (Describe	to the depth nee	eded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth	Matrix			ox Featu			-	
(inches)	Color (moist)		Color (moist)	<u>%</u>	Tvpe 1	Loc ²	TextureRemar	<u>cs</u>
0-8	10YR 2/1						Loam	
8-20	10YR 4/1	100%					Clay Loam	
							-	
							· .	
1 Type: C=Concen	ntration. D=Deple	tion. RM=Reduced	d Matrix, CS=Covere	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
			, unless otherwis				Indicators for Problematic Hydric Soils:	3
Histosol (A1)			Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epiped	on (A2)		Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (Loamy Mucky I		1)		Reduced Vertic (F18)	
Hydrogen Sul	Ifide (A4)		Loamy Gleyed				Red Parent Material (TF2)	
Stratified Lay	vers (A5) (LRR C)		☐ Depleted Matri				✓ Other (Explain in Remarks)	
1 cm Muck (A	49) (LRR D)		Redox Dark Su				• Other (Explain in Remarks)	
Depleted Belo	ow Dark Surface	(A11)	Depleted Dark	Surface (F	7)			
Thick Dark Su	` ,		Redox depress				3	
Sandy Muck N			Vernal Pools (F	⁻ 9)			Indicators of hydrophytic vegetation and wetland hydrology must be present.	
Sandy Gleyed	d Matrix (S4)						Wettand Hydrology must be present.	
Restrictive Laye	er (if present):							
Туре:							Hydric Soil Present? Yes No	,
Depth (inches):		_				Hydric Soil Present? Yes ● No	,
Remarks:								
Soils do not exhi	ibit any typical l	hydric soil indica	tors, but the soils	are satu	rated at th	e surface	during the dry season, meeting the definition	n of a
hydric soil.								
Hydrology								
Wetland Hydrol	ogy Indicators:	:						
			check all that app	dv)			Secondary Indicators (2 or more r	equired)
Surface Wate		or one required,	Salt Crust (B				Water Marks (B1) (Riverine)	<u>squireuy</u>
High Water T	Table (A2)		Biotic Crust	•			Sediment Deposits (B2) (Riverine)	
Saturation (A			Aquatic Inve		(B13)		Drift Deposits (B3) Riverine)	
	(B1) (Nonriverine	e)	Hydrogen Su				Drainage Patterns (B10)	
	posits (B2) (Nonr	•	Oxidized Rhi			Roots (C3		
Drift deposits	s (B3) (Noneriveri	ne)	Presence of	•	•		Crayfish Burrows (C8)	
Surface Soil (Recent Iron			Soils (C6)	Saturation Visible on Aerial Imager	y (C9)
☐ Inundation V	isible on Aerial In	nagery (B7)	Thin Muck S	urface (C7))		Shallow Aquitard (D3)	, , ,
Water-Staine	d Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test (D5)	
Field Observation	ons:							
Surface Water Pre	V.	es O No 💿	Depth (incl	nes):				
		es • No •	•			_		
Water Table Prese			Depth (incl	nes):	3	Wetla	and Hydrology Present? Yes No	\supset
Saturation Present (includes capillary	. Y A	s • No O	Depth (incl	nes):	0	-		
		m gauge, monit	or well, aerial pho	tos, prev	ious inspe	ctions), if	available:	-
Remarks:								
	saturated at the	surface with a	shallow water tab	e.				
30113 VVOIC 3	a.a.ca at the	aoo miii a .						

roject/Site: I-15 Payson Main Street	Interchange E	IS		city/County:	Payson/Uta	h	Sampl	ing Date:	14-Oct-1	5
pplicant/Owner: Utah Department o	f Transportati	ion				State: UT	Sar	npling Poir	nt:	53
nvestigator(s): Todd Sherman				Section, To	ownship, R	ange: S 33	T 8S	R 2E		
Landform (hillslope, terrace, etc.):	Valley bott	:om		Local relief	(concave,	convex, none): flat	-	Slope:	1.	0 %/ 0
ubregion (LRR): LRR D	-		Lat.: 43	8891		Long.: 4435891		 D	atum: N	AD83
pil Map Unit Name: Ironton loam						NWI o	lassificatio	n: Unland		
e climatic/hydrologic conditions or	the site tv	pical for this	time of year?	? Yes	s • No					
re Vegetation, Soil	, or Hydro		significantly		Are "N	lormal Circumstand	es" present	? Yes	No	\circ
re Vegetation, Soil	, or Hydro		naturally pro			eded, explain any a	-			
Summary of Findings - A	ttach sit								featur	res, etc.
Hydrophytic Vegetation Present?	Yes O	No 💿		1- 4-	C	\				
Hydric Soil Present?	Yes 🔾	No 💿			Sampled A	Van O Na				
Wetland Hydrology Present?	Yes 🔾	No 💿		withir	n a Wetland	d? Yes ○ NO	•			
Remarks: Upland area adjacent	to SD 52									
opiana area adjacem	10 31 -32.									
VEGETATION - Use scien	ntific nam	nes of plar	nts.	Dominant						
			Absolute	—Species? Rel.Strat.	Indicator	Dominance Test	worksheet:			
Tree Stratum (Plot size:)		% Cover		Status	Number of Domina	nt Species			
1			0	0.0%		That are OBL, FAC		_	0	(A)
2			0	0.0%		Total Number of D	nminant			
3			0	0.0%		Species Across All		_	1	(B)
4			0	0.0%		Dereast of demir	ant Chaolag			
Sapling/Shrub Stratum (Plot size:		١	0	= Total Cov	er	Percent of domir That Are OBL, FA			0.0%	(A/B)
			0	0.0%						
1 2.				0.0%		Prevalence Index				
3.				0.0%		Total % Co		Multiply b		
4.				0.0%			0	x 1 =	0	_
5.				0.0%		FACW species	<u>10</u> 0	x 2 =	<u>20</u> 0	-
			0	= Total Cov	or	FAC species	0	x 3 =	0	_
Herb Stratum (Plot size:)			- Total Cov	Ci	FACU species	90	x 4 =	450	-
1. Agropyron elongatum			90	90.0%	UPL	UPL species		x 5 =		- (5)
2. Juncus balticus			10	10.0%	FACW	Column Totals:	100	(A)	470	_ (B)
3			0	0.0%		Prevalence I	ndex = B/A	= _	4.700	
4			0	0.0%		Hydrophytic Vege	etation Indi	cators:		
5				0.0%		Dominance	Test is > 50	1%		
6. 7.				0.0%		Prevalence	Index is ≤3	.o ¹		
8.				0.0%		Morphologic	al Adaptation	ons ¹ (Pro	vide supp	oorting
9.				0.0%		data in Rem		•		
10.				0.0%		Problematic	Hydrophyti	c Vegetati	on ˈ (Ex	plain)
11.				0.0%						
			100	= Total Cov	er	1 Indicators of h				gy must
Woody Vine Stratum (Plot size:)				be present, unle	ss disturbed	ı or proble	matic.	
1.			0	0.0%						
2.			0	0.0%		Hydrophytic				
		_	0	= Total Cov	er	Vegetation Present?	Yes O	1o		
% Bare Ground in Herb Stratum	1 : ∩	% (Cover of Bioti			Trosont.				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix		Red	lox Featu				
(inches) Color (moist)		Color (moist)	%	_Tvpe ¹	Loc2	Texture	Remarks
0-20 10YR 3/2	100%					Loam	
							
Type: C=Concentration. D=Deplet	ion DM Podusor	d Matrix CS Covers	d or Coats	d Sand Crain		ion, DL Poro Lining M Matr	lv.
•					S -LUCAI		
lydric Soil Indicators: (Application (Application (A1))	able to all LRRS			1		Indicators for Problem	
Histic Epipedon (A2)		Sandy Redox (Stripped Matrix				1 cm Muck (A9) (LRR	•
Black Histic (A3)				1\		2 cm Muck (A10) (LR	R B)
Hydrogen Sulfide (A4)		Loamy Mucky I				Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)		Loamy Gleyed Depleted Matri		(1)		Red Parent Material (•
1 cm Muck (A9) (LRR D)		= '	` ,			Other (Explain in Ren	narks)
Depleted Below Dark Surface (A	A11)	Redox Dark Su					
Thick Dark Surface (A12)		Depleted Dark		-7)			
Sandy Muck Mineral (S1)		Redox depress				³ Indicators of hydrophyt	ic vegetation and
Sandy Gleyed Matrix (S4)		Vernal Pools (F	F9)			wetland hydrology mu	st be present.
estrictive Layer (if present):							
Type:							
Depth (inches):						Hydric Soil Present?	Yes ○ No •
		_				nyunc son Present?	163 0 110 0
'emarks						nyunc 3011 Present?	Tes C NO C
Remarks:						nyunc son Present?	Tes C NO C
Remarks: o indicators of hydric soil.						nyunc son Present?	TES O NO O
		_				nyunc son Present?	TES C NO C
						nyunc son Present?	TES C NO C
indicators of hydric soil.		_				nyunc son Present?	TES C NO C
o indicators of hydric soil.						nyunc son Present?	TES C NO C
ydrology /etland Hydrology Indicators:	f and required	check all that app	oliv)			•	
ydrology Tetland Hydrology Indicators: rimary Indicators (minimum o	f one required;					_Secondary Indica	tors (2 or more required)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	f one required;	Salt Crust (B	311)			Secondary Indica Water Marks (B	tors (2 or more required) 1) (Riverine)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2)	f one required;	Salt Crust (B	(B12)	/P12\		Secondary Indica Water Marks (B	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	311) (B12) ertebrates (Secondary Indica Water Marks (B Sediment Depo Drift Deposits (tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine)
vdrology Tetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)		Salt Crust (B Biotic Crust (Aquatic Inve	(B12) ertebrates (ulfide Odor	(C1)	Doots (C2)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	(B12) ertebrates (ulfide Odor izospheres	(C1) along Living	Roots (C3)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter) Dry Season Wa	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2)
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	(B12) ertebrates (ulfide Odor izospheres Reduced I	c (C1) along Living ron (C4)		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter) Dry Season Wa Crayfish Burrow	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) s (C8)
ydrology /etland Hydrology Indicators: Primary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Interrepretation of the content	(C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverin Surface Soil Cracks (B6) Inundation Visible on Aerial Im	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Yetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Yetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Intebrates (Interpreted of the second of the secon	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Vetland Hydrology Indicators: rrimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) le)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	it1) (B12) Intebrates (Ilfide Odor (zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology Vetland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriv Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) Vetal Control of the Control	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpreted in the state of the state	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Imwater-Stained Leaves (B9) ield Observations: urface Water Present? Yes //ater Table Present?	verine) ue) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) interpreted	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) iteld Observations: urface Water Present? /etaturation Present?	verine) le) agery (B7) S No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) interpreted	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6)	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Tes	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: Primary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Immudation Vi	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)
ydrology /etland Hydrology Indicators: rimary Indicators (minimum o	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpretates (Interpretates	c (C1) along Living ron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indica Water Marks (B Sediment Depo Drift Deposits (Drainage Patter Dry Season Wa Crayfish Burrow Saturation Visib Shallow Aquitar FAC-neutral Test	tors (2 or more required) 1) (Riverine) sits (B2) (Riverine) B3) Riverine) ns (B10) ter Table (C2) rs (C8) le on Aerial Imagery (C9) d (D3) st (D5)

Project/Site: I-15 Payson Main Street I	Interchange El	IS	с	ity/County:	Payson/Utal	h	Sampli	ng Date: 14-0	Oct-15
Applicant/Owner: Utah Department o	f Transportation	on				State: UT	Sam	pling Point:	54
Investigator(s): Todd Sherman				Section, To	wnship, Ra	ange: S 33	T 8S	R 2E	
Landform (hillslope, terrace, etc.):	Valley botto	om		Local relief ((concave, c	convex, none): co	ncave	Slope:	 1.0_ % / 0.6
Subregion (LRR): LRR D			Lat.: 43	9058		Long.: 4436057	7		n: NAD83
Soil Map Unit Name: Kirkham silty cl	ay loam			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			classification		-
re climatic/hydrologic conditions on		sical for this	time of year?	Vec.	● No ○		lain in Remar		
Are Vegetation, Soil	or Hydrol ,	_	significantly			ormal Circumstan			No O
	-						•		110
Are Vegetation	or Hydrol, ttach site	•••	naturally prol nowing sa			eded, explain any ations, trans			atures, etc.
Hydrophytic Vegetation Present?	Yes	No O	3				,		
Hydric Soil Present?	Yes	No \bigcirc			Sampled A	Vaa 📵 Na	\sim		
Wetland Hydrology Present?	Yes	No \bigcirc		within	a Wetland	_{i?} Yes © No)		
	watland cras	tod by a gra	und water co	an .					
Remarks: Palustrine emergent v	менани стеа	ted by a gro	unu water see	εp.					
VEGETATION - Use scier	atific nam	os of plan	ntc	Dominant					
VEGETATION - 03e 3ciei	Turic mann	es or plai		—Species?					
Tree Stratum (Plot size:)		Absolute % Cover	Rel.Strat. Cover	Indicator Status	Dominance Test			
1.			0	0.0%		Number of Domin That are OBL, FAC	•	2	(A)
2.			0	0.0%					
3.			0	0.0%		Total Number of I Species Across All		2	(B)
4.			0	0.0%					
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	Percent of domi That Are OBL, F		: 100.0)%(A/B)
1			0	0.0%		Prevalence Inde	x worksheet:		
2			0	0.0%		Total % C	over of:	Multiply by:	
3			0	0.0%		OBL species	20	x 1 =	20
4. 5.			0	0.0%		FACW species	80	x 2 =1	160
5				0.0%		FAC species	0	x 3 =	0
(Dlatatia			0	= Total Cove	er	FACU species	0	x 4 =	0
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Juncus balticus			80	80.0%	FACW	Column Totals	s:100	(A) _1	180 (B)
2. Carex nebrascensis 3.				20.0%	OBL	Provalence	Index = B/A	= 1.80	in
3 4.				0.0%					<u> </u>
5.				0.0%		Hydrophytic Vec			
6.				0.0%			Index is ≤3.		
7.			0	0.0%					
8.			0	0.0%				ons ¹ (Provide separate shee	
9.			0	0.0%				· : Vegetation ¹	
10.			0	0.0%			o riyaropiiyin	vegetation	(Explain)
11.			0	0.0%		1			
			100	= Total Cove	er	1 Indicators of be present, unle			
Woodv Vine Stratum (Plot size:		_)							
1			0	0.0%					
2				0.0%		Hydrophytic Vegetation	🕝		
			0	= Total Cove	er	Present?	Yes N	o ()	
0.0		•							
% Bare Ground in Herb Stratum	ı: <u>0</u>	%(Cover of Biotic	c Crust 0					
% Bare Ground in Herb Stratum Remarks: The area meets the vegetation crit		%(Cover of Biotic	c Crust 0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description	n: (Describe to	the depth nee	ded to document	the indi	cator or co	nfirm the	absence of indicators.)
Depth	Matrix			lox Featu			_
	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks
0-8 10	OYR 2/1	100%					Loam
8-20 10	OYR 4/1	100%					Clay Loam
							· · · · · · · · · · · · · · · · · · ·
1 Type: C=Concentra	ition. D=Depletio	n. RM=Reduced	Matrix, CS=Covere	d or Coate	ed Sand Gra	ns ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil Indica							Indicators for Problematic Hydric Soils: ³
Histosol (A1)			Sandy Redox (1 cm Muck (A9) (LRR C)
Histic Epipedon	(A2)		Stripped Matrix				2 cm Muck (A10) (LRR B)
Black Histic (A3))		Loamy Mucky		1)		Reduced Vertic (F18)
Hydrogen Sulfid	e (A4)		Loamy Gleyed				Red Parent Material (TF2)
Stratified Layers	(A5) (LRR C)		☐ Depleted Matri		,		✓ Other (Explain in Remarks)
1 cm Muck (A9)	(LRR D)		Redox Dark Su				Other (Explain in Remarks)
Depleted Below	Dark Surface (A1	1)	Depleted Dark	Surface (F7)		
Thick Dark Surfa			Redox depress				3
Sandy Muck Mir			Vernal Pools (I	F9)			³ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gleyed M	atrix (S4)						wettand flydrology must be present.
Restrictive Layer	(if present):						
Туре:							Hydric Soil Present? Yes ● No ○
Depth (inches):							Hydric Soil Present? Yes ● No ○
Remarks:							
Soils do not exhibit	any typical hy	dric soil indica	tors, but the soils	are satu	rated in th	e upper pi	profile during the dry season, meeting the definition of a
hydric soil.	3 3.						
Hydrology							
Wetland Hydrolog	v Indicators:						
	-	one required.	about all that any	d. A			Cocondany Indicators (2 or more required)
Primary Indicators Surface Water (one requirea;	Salt Crust (B				Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
High Water Tab	,		Biotic Crust	•			
Saturation (A3)	ie (AZ)		Aquatic Inve		(D12)		☐ Sediment Deposits (B2) (Riverine) ☐ Drift Deposits (B3) Riverine)
Water Marks (B	1) (Nonriverine)		Hydrogen Su				Drainage Patterns (B10)
	sits (B2) (Nonrive	rine)	Oxidized Rhi			n Roots (C3	
	33) (Noneriverine	•	Presence of	•	-	g Noots (oc	Crayfish Burrows (C8)
Surface Soil Cra		,	Recent Iron			Soils (C6)	Saturation Visible on Aerial Imagery (C9)
	ole on Aerial Imag	nery (B7)	☐ Thin Muck S			JOII3 (00)	Shallow Aquitard (D3)
Water-Stained L		gery (D7)	Other (Expla				FAC-neutral Test (D5)
			Ситег (Ехріа		ui koj		TAC-fledital Test (D3)
Field Observations	V	○ No ●	Donth (inc	haa).			
Surface Water Prese			Depth (inc	nes):		_	
Water Table Present	? Yes	O No •	Depth (inc	hes):		- \\/o+le	land Hydrology Present? Yes No
Saturation Present? (includes capillary fri	nne) Yes	● No ○	Depth (inc	hes):	11	_ weu	and Hydrology Present? Tes S NO S
_Describe Recorded		gauge, monito	or well, aerial pho	itos, prev	ious insne	ctions) if	available:
	a.a (50 0dill	-,2690; monite	sorial prio	.50, prot		, 11	
Remarks:							
Soils are saturated	l in the upper n	rofile					
Jons are saturated	титите иррегр	II OI II C.					

	nterchange EIS	City/C	County: Payson/Uta	ıh	_ Sampling	g Date: 14-0	oct-15
Applicant/Owner: Utah Department of	Transportation			State: UT	Samp	ling Point:	55
Investigator(s): Todd Sherman		Sec	tion, Township, R	ange: S 33	r_8S	R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom	Loca	al relief (concave,	convex, none): flat		Slope:	1.0 % / 0.
Subregion (LRR): LRR D		Lat.: 439062		Long.: 4436065		Datum	n: NAD83
Goil Map Unit Name: Kirkham silty cla	av loam			NWI cla	ssification:	—— Upland	
e climatic/hydrologic conditions on		this time of year?	Yes No				
Are Vegetation, Soil	, or Hydrology	significantly distu	rbed? Are "N	Jormal Circumstances	s" present?	Yes	No \bigcirc
Are Vegetation , Soil	, or Hydrology	naturally problem		eded, explain any ans	•	narks)	
Summary of Findings - At			•				tures, etc.
Hydrophytic Vegetation Present?	Yes O No •				•		-
Hydric Soil Present?	Yes ○ No ●		Is the Sampled A	Vaa O Na @			
Wetland Hydrology Present?	Yes ○ No •		within a Wetland	d? res UNO G	2		
Remarks: Upland area adjacent t	to SP-54						
opiana area adjacem t	to 3r -34.						
VEGETATION - Use scien	tific names of p		minant				
			ecies? ————————————————————————————————————	Dominance Test w	orksheet:		
Tree Stratum (Plot size:)	% Cover Co	ver Status	Number of Dominant	Species		
1			0.0%	That are OBL, FACW,	or FAC:	1_	(A)
2			0.0%	Total Number of Dom	ninant		
3 4.			0.0%	Species Across All Str	ata:	2	(B)
T			0.0%	Percent of dominar	nt Species		
Sapling/Shrub Stratum (Plot size:)	0 = To	otal Cover	That Are OBL, FAC		50.09	% (A/B)
1.		0	0.0%	Prevalence Index v	vorksheet:		
2.			0.0%	Total % Cove		Multiply by:	
3.		0 🗆	0.0%	OBL species			0
4.		0 🗆	0.0%	FACW species	20	-	10
5.			0.0%	FAC species			30
		0 = Tc	otal Cover	FACU species	0 >	. 4 =	0
Herb Stratum (Plot size:)			UPL species	70x	5 = <u>3</u>	50
1. Agropyron elongatum			70.0% UPL	Column Totals:	100	(A) 4	20 (B)
•			20.0% FACW				
3. Distichlis spicata 4.			10.0% FAC 0.0%	Prevalence Inc		_4.20	<u>J</u>
5.			0.0%	Hydrophytic Vegeta			
6.			0.0%	Dominance Te			
7.		0 🗆	0.0%				
8.		0	0.0%	Morphological data in Remar	Adaptations	s ' (Provide : eparate shee	supporting t)
9.		0 🗆	0.0%	Problematic H			
10.		0	0.0%		yar opriyao t	regetation	(Explain)
11.			0.0%	1			
		100 = To	otal Cover	Indicators of hydelegate be present, unless			
Woodv Vine Stratum (Plot size:)					-	
1			0.0%				
		0	0.0%	Hydrophytic Vegetation			
2							
۷		0 = To	otal Cover	Present? Ye	es O No	•	
% Bare Ground in Herb Stratum:	:_0	0 = To % Cover of Biotic Cru			es O No	•	
-	:_0				es O No	•	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Isidso (Art) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S1) Cosmy Gleyed Matrix (F2) Reduced Vertic (F18) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F2) Redox depressions (F8) Sandy Muck Mineral (S1) Strictive Layer (if present): Hydric Soil Present? Yes No					-				
ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. Di Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4)	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Depth (inches): Depth	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • •							
Permarks: In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Stained Leaves (B9) Other (Explain in Remarks) PAC-neutral Test (D5) Indicators of hydric soil. Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Prescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:		ies).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water (A2) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Priff Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Priff Deposits (B3) Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Drainage Patterns (B10) D	ydrology	<i>'</i>							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

pplicant/Owner: Utah Department of Transportation nvestigator(s): Todd Sherman Landform (hillslope, terrace, etc.): Valley bottom	Section	Township D	State: UT	Samp	ling Point:	56
Landform (hillslope, terrace, etc.): Valley bottom	Section	Township D				
		, TOWIISHIP, Re	ange: S 33	T 8S	R 2E	
	Local re	ief (concave, o	convex, none): Co	oncave	Slope:	
ubregion (LRR): LRR D	Lat.: 439058		Long.: 443609	3	Datum	: NAD83
bil Map Unit Name: Benjamin silty clay				classification:		B
e climatic/hydrologic conditions on the site typical for this	time of year?	Yes No		lain in Remarks		
	significantly disturbed		ormal Circumstai			No O
				•		110
re Vegetation 🔲 , Soil 📙 , or Hydrology 🔲 i Summary of Findings - Attach site map sh	naturally problematic?	•	eded, explain any ations, trans		•	tures, etc.
Hydrophytic Vegetation Present? Yes No				<u> </u>		<u> </u>
Hydric Soil Present? Yes No	Is	the Sampled A				
Wetland Hydrology Present? Yes No ○	wi	thin a Wetland	_{d?} Yes 💿 N	o		
, ,,	Crook					
Remarks: Palustrine emergent wetland adjacent to Beer	Creek.					
VEGETATION - Use scientific names of plan	ts. Domin	ant				
<u> </u>	Species Absolute Rel.Str	? ———at. Indicator	Dominance Tes	t worksheet:		
Tree Stratum (Plot size:)	% Cover Cover	Status	Number of Domir			
1,	_ 0	6	That are OBL, FA	•	1_	(A)
2	_ 0 0.09	6	Total Number of	Dominant		
3	_ 0		Species Across Al		1_	(B)
4	00.09	<u>6</u>	Percent of dom	inant Species		
Sapling/Shrub Stratum (Plot size:)	0 = Total 0	Cover	That Are OBL,		100.09	% (A/B)
1.	0 0.09	6	Prevalence Inde	ov workshoot.		
2.	0 0.09		Total % (Multiply by:	
3.	0 0.09		OBL species		_)
4.	0 0.09	6	FACW species			00
5.	0 0.09	6	FAC species)
	0 = Total 0	Cover	FACU species)
Herb Stratum (Plot size:)			UPL species	_)
1. Juncus balticus	100100.0		Column Total:			00 (B)
2	0 0.09					
3 4.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			Index = B/A =	2.000	
5.	0 0.09			getation Indicat e Test is > 50%		
6.	0 0.09			e rest is > 50% e Index is ≤3.0		
7.	0 0.09					
8.	0 0.09	6		jical Adaptations marks or on a se		
9.	0 0.09	6	Problemat	ic Hydrophytic \	egetation 1	(Explain)
10. 11.	00.09	6		, ,		
	0 0.09	6	1 Indicators of	hydric soil and	watland hydr	ology must
	100 = Total (Cover		ess disturbed of		
Woodv Vine Stratum (Plot size:)	. —					
1	_ 0		Unders to the control of the control			
۷-	_ 0		Hydrophytic Vegetation	Yes No	\cap	
	= Total (Present?	Yes No	\cup	
% Bare Ground in Herb Stratum: 0 % 0	Cover of Biotic Crust _0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (Descri	be to the	depth need	led to document	the indi	cator or co	nfirm the	e absence of indicators.)
Depth		itrix			lox Featu			
(inches)	Color (mo			Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks
0-10	10YR	2/1 10	00%					Loam
10-20	10YR	4/1 10	00%					Clay Loam
1 Type: C=Cor	ncentration. D=D	epletion. RI	M=Reduced	Matrix, CS=Covere	d or Coate	ed Sand Gra	ins ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil I	Indicators: (Ap	plicable to	all LRRs,	unless otherwis	e noted.))		Indicators for Problematic Hydric Soils: ³
Histosol ((A1)			Sandy Redox ((S5)			1 cm Muck (A9) (LRR C)
Histic Epi	pedon (A2)			Stripped Matri	x (S6)			2 cm Muck (A10) (LRR B)
Black Hist				Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)
	Sulfide (A4)			Loamy Gleyed	Matrix (F2	2)		Red Parent Material (TF2)
_	Layers (A5) (LRR	(C)		Depleted Matr	ix (F3)			✓ Other (Explain in Remarks)
	k (A9) (LRR D)			Redox Dark Su	ırface (F6))		Contract (Explain in Normans)
= '	Below Dark Surfa	ace (A11)		Depleted Dark	Surface (I	F7)		
l —	k Surface (A12)			Redox depress				2
l — ,	ıck Mineral (S1)			Vernal Pools (³ Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gle	eyed Matrix (S4)							wettalid flydrology flidst be present.
Restrictive L	ayer (if presen	t):						
Type:								
Depth (inc	hes):			_				Hydric Soil Present? Yes No
Remarks:								
Soils do not e	exhibit any typic	cal hydric	soil indicate	ors, but the soils	are satu	rated in th	e upper p	profile during the dry season, meeting the definition of a
hydric soil.		, , , , , , , , , , , , , , , , , , ,		,				,
Hydrolog	y							
Wetland Hyd	Irology Indicate	nrs.						
_			roquirod, a	shook all that one	sty)			Coonday Indicators (2 or more required)
Surface W		im or one	requirea; c	check all that app Salt Crust (B				Secondary Indicators (2 or more required) Water Marks (B1) (Riverine)
	er Table (A2)			Biotic Crust	•			
Saturation						(D12)		Sediment Deposits (B2) (Riverine)
	` ,	.rino)		Aquatic Inve				Drift Deposits (B3) Riverine)
	rks (B1) (Nonrive			☐ Hydrogen St			- Dt- (00	Drainage Patterns (B10)
	Deposits (B2) (N			Oxidized Rhi		-	g Roots (Ca	
	osits (B3) (Noneri	verine)		Presence of				Crayfish Burrows (C8)
	oil Cracks (B6)		(D=)	Recent Iron			50IIS (C6)	Saturation Visible on Aerial Imagery (C9)
	n Visible on Aeria		(B7)	☐ Thin Muck S				Shallow Aquitard (D3)
Water-Sta	ained Leaves (B9)) 		U Other (Expla	iin in Rem	arks)		FAC-neutral Test (D5)
Field Observ	ations:							
Surface Water	Present?	Yes 🔾	No 💿	Depth (inc	hes):		_	
Water Table P	resent?	Yes 🔾	No 💿	Depth (inc	hes):			
Saturation Pre (includes capil		Yes	No O	Depth (inc	hes):	11	Wetla	land Hydrology Present? Yes ● No ○
		ream gau	ge, monito	r well, aerial pho	otos, prev	ious inspe	ctions). if	f available:
			. ,	, , , , , , , , , , , , , , , , , , , ,	, , ,		-,,	
Remarks:								
	urated in the up	nner nrofil	۵					
Julia ale sall		hei hiniii	. .					

		Section, Township, Ra ocal relief (concave, o		
Landform (hillslope, terrace, etc.): Valley bottom ubregion (LRR): LRR D bil Map Unit Name: Benjamin silty clay e climatic/hydrologic conditions on the site typical for this silty value (limatic by the condition) and the site typical for this silty value (limatic by the condition) are Vegetation (limatic by the condition) and the condition (limatic by the condition) are Vegetation (limatic by the condition) are vegetation (limatic by the condition) and the condition (limatic by the condition) are vegetation (limatic by the co	Lo	ocal relief (concave, o		
ubregion (LRR): LRR D oil Map Unit Name: Benjamin silty clay e climatic/hydrologic conditions on the site typical for this are Vegetation , Soil , or Hydrology , s			onvex, none): flat Slope:1.0 %	
ubregion (LRR): LRR D oil Map Unit Name: Benjamin silty clay e climatic/hydrologic conditions on the site typical for this are Vegetation , Soil , or Hydrology , s	Lat.: 4390	163		0.0
oil Map Unit Name: Benjamin silty clay e climatic/hydrologic conditions on the site typical for this tare Vegetation, Soil, or Hydrology s			Long.: 4436098 Datum: NAD83	
e climatic/hydrologic conditions on the site typical for this tare Vegetation, Soil, or Hydrology s			NWI classification: Upland	
re Vegetation , Soil , or Hydrology s	time of year?	Yes No		
	ignificantly dis		ormal Circumstances" present? Yes • No	
			F	
re Vegetation 🔲 , Soil 📙 , or Hydrology 📙 r Summary of Findings - Attach site map sho	owing sam	•	ded, explain any answers in Remarks.) ations, transects, important features,	etc.
Hydrophytic Vegetation Present? Yes No			·	
Hydric Soil Present? Yes ○ No •		Is the Sampled A		
Wetland Hydrology Present? Yes No		within a Wetland	? Yes ○ No	
Remarks: Upland area adjacent to SP-56.				
opianu area aujacent to Sr-50.				
VEGETATION - Use scientific names of plant	ts.	Dominant		
<u> </u>		Species? ————————————————————————————————————	Dominance Test worksheet:	
Tree Stratum (Plot size:)		Cover Status	Number of Dominant Species	
1	0	0.0%	That are OBL, FACW, or FAC: O (A))
2		0.0%	Total Number of Dominant	
3		0.0%	Species Across All Strata:1 (B))
4		0.0%	Dercent of deminent Charles	
Sapling/Shrub Stratum (Plot size:)	=	Total Cover	Percent of dominant Species That Are OBL, FACW, or FAC: 0.0% (A/	/B)
1.	0	0.0%	Prevalence Index worksheet:	
2.	0 [0.0%	Total % Cover of: Multiply by:	
3.	0	0.0%	0BL species 0 x 1 = 0	
4.	0	0.0%	FACW species 10 x 2 = 20	
5.	_ 0	0.0%	FAC species 10 x 3 = 30	
	0 =	Total Cover	FACU species $0 \times 4 = 0$	
Herb Stratum (Plot size:)		a	UPL species $\frac{80}{}$ x 5 = $\frac{400}{}$	
1. Agropyron elongatum	80			B)
2. Juncus balticus	10	10.0% FACW	Prevalence Index = B/A = 4.500	
3. Distichlis spicata 4.	10 0	10.0% FAC 0.0%		
5.	0 [0.0%	Hydrophytic Vegetation Indicators: Dominance Test is > 50%	
6.	0 [0.0%	Prevalence Index is ≤ 3.0 ¹	
7.	0	0.0%	Morphological Adaptations ¹ (Provide supportin	
8.	0	0.0%	data in Remarks or on a separate sheet)	ıg
9.	0	0.0%	Problematic Hydrophytic Vegetation ¹ (Explain))
10. 11.		0.0%		
		0.0%	¹ Indicators of hydric soil and wetland hydrology ma	uet
	100 =	Total Cover	be present, unless disturbed or problematic.	usı
Woodv Vine Stratum (Plot size:)	_	7		
1			Hadaaahadia	
2		0.0%	Hydrophytic Vegetation	
		Total Cover	Present? Yes No •	
% Bare Ground in Herb Stratum: 0 % C	over of Biotic (Crust_0		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Concentration D_Depletion NA_Evaluation	Depth	Matrix		Red	lox Featu				
Type: CConcentration DDepletion. RMReduced Matrix, CSCoweed or Coated Sand Grains *Iocation: PIPore Lining, MMatrix		Color (moist)	%	Color (moist)	%	Type 1	Loc2	Texture	Remarks
ydric Soll Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	0-20	10YR 3/2	100%					Loam	
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Musk (A9) (LRR C) Black Histic (A3) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A4) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Musky Mineral (F1) Reduced Vertic (F18) Hydrogen Sutified (A9) Loamy Gleyed Metrix (F2) Reduced Vertic (F18) Stratified Layers (A5) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Depleted Metrix (F3) Other (Explain in Remarks) Ten Musk (A9) (LRR C) Redox Dark Surface (F7) Thick Dark Surface (A17) Depleted Dark Surface (F7) Sandy Musk Mineral (S1) Redox depressions (F8) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Musk Mineral (S1) Redox depressions (F9) Sandy Gleyed Metrix (S4) Redox depressions (F9) Strictive Layer (if present): Type:									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Histoso (A1) Sandy Redox (S5) Indicators (Problematic Hydric Soils.3 Histoso (A1) Sandy Redox (S5) I cm Muck (A9) (LRR C) Stripped Matrix (S6) I cm Muck (A9) (LRR C) I cm Muck (A10) (LRR B) I cm Muck (A10) (LRB B) I cm Muck (A10) (L									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Soils.3 Indicators for Problematic Hydric Files.3 Indicators for Problematic Hydric Hy									
Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Isidso (Art) Sandy Redox (S5) 1 cm Muck (A9) (LRR C) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S6) 2 cm Muck (A10) (LRR B) Isids (Epipedon (Az) Stripped Matrix (S1) Cosmy Gleyed Matrix (F2) Reduced Vertic (F18) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F3) Other (Explain in Remarks) Isids (Epipedon (Az) Stratified Layers (AS) (LRR C) Depleted Matrix (F2) Redox depressions (F8) Sandy Muck Mineral (S1) Strictive Layer (if present): Hydric Soil Present? Yes No					-				
ydric Soil Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators for Problematic Hydric Soils.3 Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to all LRRs, unless otherwise noted.) Indicators (Applicable to Applicable to Applicable to Applicable Applicable (Applicable Applicable Applicab	Tumo. C. Com	contration D. Donlatia	DM Doduces	Matrix CS Cayora	d or Coots	d Cond Cro		tion. Di Doro Lining M Matrix	
Histoc (A1)	· · · · · · · · · · · · · · · · · · ·	· ·					IIIS -LOCAL		2
Histic Epipedon (A2)	_		DIE TO AII LKKS						•
Black Histic (A3)		•							
Hydrogen Sulfide (A4)	_					1)			3)
Stratified Layers (A5) (LRR C)	7								
and the Muck (A9) (LRR D)						(.)			•
Depleted Below Dark Surface (A11) Depleted Dark Surface (F7) Thick Dark Surface (A12) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Muck Mineral (S1) Depleted Dark Surface (F7) Sandy Gleyed Matrix (S4) Persent: Type: Depth (inches): Depth	_			•				U Other (Explain in Remar	ks)
Thick Dark Surface (A12)	Depleted F	Below Dark Surface (A1	11)						
Sandy Muck Mineral (S1)	_					- /)			
Sandy Gleyed Matrix (S4) setrictive Layer (if present): Type: Depth (inches): Image: Pope of Hydric Soil Present? Person of Present? Person of Reduced Iron (C4) Saturation (A3) Sediment Deposits (B2) (Norriverine) Diffit deposits (B3) (Nonerverine) Diffit d	Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydrophytic v	egetation and
Type:	Sandy Gle	yed Matrix (S4)		vernai Poois (F9)			wetland hydrology must	be present.
Type:	estrictive La	yer (if present):							
Pepth (inches):		J • • • • • • •							
Permarks: In indicators of hydric soil. In indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required; surface Water (A1) Sulface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Water Stained Leaves (B9) Other (Explain in Remarks) PAC-neutral Test (D5) Indicators of hydric soil. Wetland Hydrology Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Prescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:		ies).						Hydric Soil Present? You	es 🔾 No 💿
ydrology Vetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Salt Crust (B11) High Water Table (A2) Salturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Drift Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Water Table Present? Ves No ● Depth (inches): Wetland Hydrology Present? Ves No ● Depth (inches):									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sulface Water (A1) Sulface Water (A2) Salt Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Riverine) Saturation (A3) Water Marks (B1) (Riverine) Saturation (A3) Priff Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Saturation (A3) Water Marks (B1) (Nonriverine) Saturation (A3) Priff Deposits (B3) Riverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Saturation Present? Yes No Depth (inches): Wetland Hydrology Present? Yes No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B1) (Nonriverine) Water Marks (B2) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Water Marks (B3) (Nonriverine) Drainage Patterns (B10) D	ydrology	<i>'</i>							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) High Water Table (A2) Biotic Crust (B12) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): vater Table Present? Yes No Popeth (inches): vater Table Present?	etland Hyd	rology Indicators:							
High Water Table (A2)	rimary Indic	cators (minimum of	one required;	check all that app	oly)			Secondary Indicator	rs (2 or more required)
High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Drainage Patterns (B10) Drainage Patterns (B10) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Depth (inches): Urface Water Present? Yes No Depth (inches):	Surface W	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
Water Marks (B1) (Nonriverine)	☐ High Wate	er Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Other (Explain in Remarks) Depth (inches): Jater Table Present? Yes No Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:	Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Indid Cobservations: Urface Water Present? Yes No Depth (inches): Depth (inch	Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odoı	(C1)		☐ Drainage Patterns	(B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9) Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3) Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) ield Observations: urface Water Present? Yes No Depth (inches): vater Table Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Depth (inches): urface Water Present? Yes No Peth (inche	Sediment	Deposits (B2) (Nonrive	erine)	Oxidized Rh	zospheres	along Livin	g Roots (C3	B) Dry Season Water	Table (C2)
Inundation Visible on Aerial Imagery (B7)	Drift depo	sits (B3) (Noneriverine)	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Water-Stained Leaves (B9) Other (Explain in Remarks) FAC-neutral Test (D5) Indeed Observations: Unrace Water Present? Yes No Depth (inches): Induction Present? Yes No Depth (inches): Includes capillary fringe) Pescribe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Includes capillary fringe) Wetland Hydrology Present? Yes No Mo Pethology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? Wetland Hydrology Present? Yes No Pethology Present? No Pethology Present? No Pethology Present? Wetland Hydrology Present? Yes No Pethology Pres	Surface Sc	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
ield Observations: urface Water Present? Yes No Depth (inches): Vater Table Present? Yes No Depth (inches): aturation Present? Yes No Depth (inches): Depth (inches): Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:	Inundation	n Visible on Aerial Imag	gery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
urface Water Present? Yes No Depth (inches):	Water-Sta	ined Leaves (B9)		Other (Expla	in in Rem	arks)		FAC-neutral Test (D5)
urface Water Present? Yes No Depth (inches):	ield Ohserva	ations:							
Adater Table Present? Wetland Hydrology Present? Yes O No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			O No •	Depth (inc	hes):				
Aduration Present? No Depth (inches): Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				•			-		
Depth (inches): Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available: Demarks:				Depth (inc	hes):		Wetla	and Hydrology Present?	Yes ○ No •
emarks:			O No 💿	Depth (inc	hes):		-	and right ology r resent.	
	Describe Rec	orded Data (stream	gauge, monit	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
lo indicators of wetland hydrology.									
	lo indicators	of wetland hydrolog	gy.						

State: UT Sampling Point: 58
nship, Range: \$ 5 T 9S R 2E
oncave, convex, none): concave Slope:0.0 % / 0.0
Long.: 4434759 Datum: NAD83
NWI classification: PEM NO (If no, explain in Remarks.)
F
(If needed, explain any answers in Remarks.) nt locations, transects, important features, etc.
Impled Area
Wetland? Yes ● No ○
ndicator Dominance Test worksheet:
tatus Number of Dominant Species
That are OBL, FACW, or FAC: 5 (A)
Total Number of Dominant
Species Across All Strata: 5 (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species 80 x 1 = 80
FACW species x 2 =40
FAC species x 3 =0
FACU species $0 \times 4 = 0$
UPL species $0 \times 5 = 0$
OBL Column Totals: 100 (A) 120 (B)
ACW Prevalence Index = B/A = 1.200
Hydrophytic Vegetation Indicators: Dominance Test is > 50%
✓ Dominance rest is > 50% ✓ Prevalence Index is ≤3.0 ¹
Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation (Explain)
Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Hydrophytic Vegetation
Present? Yes No
-

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe	to the depth need	led to document	the indic	cator or cor	firm the	absence of indicators.)	
Depth Matr			ox Featu				
(inches) Color (moist		Color (moist)	%	Tvpe 1	Loc ²	Texture	Remarks
0-20 10YR 2/	1 100%					Loam	
			-				
			-				
1 Type: C. Concentration D. Den	lation DM Dadusad	Matrix CS Covered	d or Coats	d Sand Crair	21 000	tion: DL Poro Lining M Matrix	
1 Type: C=Concentration. D=Dep					is -Loca		2
Hydric Soil Indicators: (App	icable to all LRRS,	_				Indicators for Problemat	
Histosol (A1)		Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2) Black Histic (A3)		Stripped Matrix				2 cm Muck (A10) (LRR E	3)
Hydrogen Sulfide (A4)		Loamy Mucky N				Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C	\	Loamy Gleyed		2)		Red Parent Material (TF	2)
1 cm Muck (A9) (LRR D)	,	Depleted Matri	` ,			Other (Explain in Remar	ks)
Depleted Below Dark Surface	(/11)	Redox Dark Su					
Thick Dark Surface (A12)	(ATT)	Depleted Dark	Surface (F	- 7)			
Sandy Muck Mineral (S1)		Redox depress	ions (F8)			³ Indicators of hydrophytic v	vogotation and
_ ,		Vernal Pools (F	9)			wetland hydrology must	be present.
Sandy Gleyed Matrix (S4)							•
Restrictive Layer (if present)							
Type:						Hydric Soil Present? You	es No
Depth (inches):		_				nyunc son Fresent:	es © NO C
Remarks:							
Soils emit a hydrogen sulfide of	odor when excavate	ed, and are inund	dated.				
Hydrology							
Wetland Hydrology Indicator	s:						
Primary Indicators (minimum	of one required: of	heck all that app	ılv)			Secondary Indicator	s (2 or more required)
Surface Water (A1)		Salt Crust (B				Water Marks (B1)	
✓ High Water Table (A2)		Biotic Crust ((B12)			Sediment Deposits	` ,
Saturation (A3)		Aquatic Inve		(B13)		Drift Deposits (B3)	
Water Marks (B1) (Nonrivering	ne)	✓ Hydrogen Su				☐ Drainage Patterns	
Sediment Deposits (B2) (Nor		Oxidized Rhi			Roots (C3		
Drift deposits (B3) (Nonerive		Presence of I	•		110010 (00	Crayfish Burrows (. ,
Surface Soil Cracks (B6)	inic)	Recent Iron			nils (C6)		on Aerial Imagery (C9)
Inundation Visible on Aerial	magery (R7)	Thin Muck Su			Jii3 (CO)	Shallow Aquitard (
Water-Stained Leaves (B9)	magery (b7)	Other (Explai	•	•		FAC-neutral Test (
		U Other (Expla	III III Keilia	ai kə)		▼ FAC-neutral rest (ມວ) ————————————————————————————————————
Field Observations:	/aa 📵 N= 🔿	.		_			
Carrage Water Freedom	'es No	Depth (inch	nes):	1			
Water Table Present?	'es ● No ○	Depth (inch	nes):	0			Yes No
Saturation Present? (includes capillary fringe)	es No	Depth (inch	nes):	0	Wetla	and Hydrology Present?	res 🖭 No 🔾
Describe Recorded Data (stre	am gauge, monitor	well, aerial pho	tos, prev	ious inspec	tions), if	available:	
Remarks:		·				·	
Soils emit a hydrogen sulfide	odor when excavat	ed, and were in	undated.				
, g							

Applicant/Owner: Utah Department of Investigator(s): Todd Sherman Landform (hillslope, terrace, etc.): \	Transportati	on				State: UT	San	npling Point:_	59
-									
Landform (hillsland torrace etc.): \				Section, To	wnship, Ra	ange: S 5	T 9S	R 2E	
Landioi III (Illisiope, terrace, etc.).	Valley botto	om		Local relief	(concave, c	convex, none): fla	– - at	Slope:	0.0 % / 0.
Subregion (LRR): LRR D			Lat.: 43	37407		Long.: 4434752	2	 Datur	m: NAD83
oil Map Unit Name: McBeth silt loam						NWI	classification	 n: Upland	
e climatic/hydrologic conditions on t		oical for this	time of year?	Yes	. ● No C	(If no, exp	lain in Remar	ks.)	
Are Vegetation, Soil	, or Hydrol	logy 🗌	significantly of	disturbed?	Are "N	ormal Circumstar	nces" present	? Yes ⊙	No \bigcirc
-	, or Hydrol		naturally pro	hlematic?		eded, explain any	•		
Summary of Findings - Att									atures, etc.
Hydrophytic Vegetation Present?	Yes O	No •		le the	Campled A	roa			
Hydric Soil Present?	Yes \bigcirc	No 💿			Sampled A	Vac O N	. (
Wetland Hydrology Present?	$_{Yes}$ \bigcirc	No 💿		within	a Wetland	i? res ∪ ini	.		
Remarks: Upland area adjacent to	n SP-58								
opiana area adjacent ti	0 31 -30.								
VEGETATION - Use scient	ific nam	es of plar	nts.	Dominant					
			Absolute	—Species? Rel.Strat.	Indicator	Dominance Tes	t worksheet:		
Tree Stratum (Plot size:)		% Cover	Cover	Status	Number of Domir	nant Species		
1,			_	0.0%		That are OBL, FA	CW, or FAC:	1	(A)
2				0.0%		Total Number of	Dominant		
3. 4.				0.0%		Species Across Al	l Strata:	4	(B)
T			0	0.0%		Percent of dom	inant Species		
_Sapling/Shrub Stratum (Plot size: _)	0	= Total Cove	er	That Are OBL, F			% (A/B)
1.			0	0.0%		Prevalence Inde	x worksheet	•	
2.				0.0%		Total % C		Multiply by:	
3.			0	0.0%		OBL species	0		0
4.			0	0.0%		FACW species			0
5.			0	0.0%		FAC species	25		75
			0	= Total Cove	er	FACU species			300
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Taraxacum officinale			30	30.0%	FACU	Column Totals	100		375 (B)
•				25.0%	FACU				
3. Poa pratensis				20.0%	FAC	Prevalence	Index = B/A	= 3.75	0
4. Festuca pratensis				20.0%	FACU	Hydrophytic Ve	•		
5. <u>Dipsacus fullonum</u>6.			5	0.0%	FAC		e Test is > 50		
7.			0	0.0%		_	e Index is ≤3.		
8.				0.0%				ons ¹ (Provide separate shee	
9.			0	0.0%				c Vegetation ¹	
10.			0	0.0%		Problemati	ic Hydropnyti	c vegetation	(Explain)
11.			0	0.0%		4			
			100	= Total Cove	er	1 Indicators of be present, unl			
Woodv Vine Stratum (Plot size:		_)				Do prosent, um	oss distal bod	or probleman	<u>. </u>
1			0	0.0%					
2			0	0.0%		Hydrophytic			
			0	= Total Cove	er	Vegetation Present?	Yes O	lo 💿	
				. 0					
% Bare Ground in Herb Stratum:	0	%	Cover of Biotic	c crust 0					
% Bare Ground in Herb Stratum: Remarks:	0	%	Cover of Bloth	c Crust 0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2						Loam	
				-				
Type: C=Con	centration D-Depletion	n PM-Peduce	d Matrix CS=Covere	d or Coate	d Sand Grains	2l ocat	ion: PL=Pore Lining. M=M	atriv
J.	ndicators: (Applicat					s Locat		
Histosol (A		DIE LU AII LKK	Sandy Redox (Indicators for Proble	•
Histic Epip	•		Stripped Matrix				1 cm Muck (A9) (L	•
Black Histi			Loamy Mucky I		1\		2 cm Muck (A10) (· ·
_	Sulfide (A4)		_				Reduced Vertic (F1	•
	_ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Materia	• •
	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain in F	temarks)
Depleted F	Below Dark Surface (A1	1)						
	Surface (A12)		☐ Depleted Dark ☐ Redox depress		- /)			
Sandy Mud	ck Mineral (S1)		•				3 Indicators of hydroph	
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrology	must be present.
Restrictive La	yer (if present):							
Type:								
Type: Depth (inch	nes):						Hydric Soil Present?	Yes ○ No •
Depth (inch	nes): of hydric soil.						Hydric Soil Present?	Yes ○ No ●
Depth (inch Remarks: o indicators	of hydric soil.						Hydric Soil Present?	Yes O No O
Depth (inch Remarks: o indicators	of hydric soil.						Hydric Soil Present?	Yes O No O
Depth (inches Remarks: do indicators	of hydric soil.						Hydric Soil Present?	Yes O No •
Depth (inch Remarks: lo indicators lydrology Wetland Hydrology	of hydric soil.	one required	check all that app	oly)			,	Yes No •
Depth (inch Remarks: o indicators lydrology Vetland Hydrology	of hydric soil. rology Indicators: cators (minimum of	one required	check all that app				_Secondary Indi	
Depth (inches per	of hydric soil. rology Indicators: cators (minimum of	one required		11)			Secondary Indi	cators (2 or more required)
Depth (inches De	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2)	one required	Salt Crust (B	11) (B12)	(B13)		Secondary Indi Water Marks Sediment De	cators (2 or more required) (B1) (Riverine)
Depth (inch Remarks: o indicators Iydrology Wetland Hyde Primary Indic Surface W High Wate Saturation	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2)	one required	Salt Crust (B	11) (B12) rtebrates (Secondary Indi Water Marks Sediment De	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (inch Remarks: o indicators Iydrology Wetland Hydi Primary Indic Surface W High Wate Saturation Water Mar	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor		Roots (C3)	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine)
Depth (inche Depth (inche Depth (inche Remarks: o indicators o indicat	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2)
Depth (inche Remarks: lo indicators lydrology Wetland Hydrology Surface W High Water Mar Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) rks (B1) (Nonriverine) Deposits (B2) (Nonrive	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II	(C1) along Living		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season W	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2)
Depth (inche Remarks: o indicators lydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology High Water Saturation Water Mar Sediment Drift deport Surface Sc	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	c (C1) along Living I ron (C4) in Plowed So		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season W	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9)
Depth (inche Remarks: o indicators	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	c (C1) along Living I ron (C4) in Plowed So		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3)
Depth (inche Remarks: lo indicators lydrology Wetland Hydrology Wetland Hydrology Surface W High Water Mar Sediment Drift depo Surface Sc Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) ill Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck So	11) (B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7)	c (C1) along Living I ron (C4) in Plowed So		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3)
Depth (inche Remarks: o indicators o indicat	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine) Jery (B7)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7) in in Rema	c (C1) along Living I ron (C4) in Plowed So		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3)
Depth (inche Remarks: lo indicators lydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology Wetland Hydrology Surface W Saturation Water Mar Sediment Drift depor Surface So Inundation Water-Sta Field Observa Surface Water	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) iil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	rine) Jery (B7)	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	c (C1) along Living l ron (C4) in Plowed So) arks)		Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3)
Depth (inche Remarks: o indicators o indicat	of hydric soil. rology Indicators: cators (minimum of ater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes esent? Yes	rine) gery (B7) No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	c (C1) along Living I ron (C4) in Plowed So	ils (C6)	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi Shallow Aqui	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3) Fest (D5)
Depth (inche Remarks: lo indicators lo indic	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Vas	rine) gery (B7) No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	c (C1) along Living l ron (C4) in Plowed So) arks)	ils (C6)	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Dry Season V Crayfish Burr Saturation Vi	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3)
Depth (inche Remarks: lo indicators lo indic	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) oil Cracks (B6) on Visible on Aerial Imagined Leaves (B9) ations: Present? Yes sent? Vas	rine) Jery (B7) No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	along Living laron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation Vi Shallow Aqui FAC-neutral	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3) Fest (D5)
Depth (inche Remarks: lo indicators lo indic	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) on Visible on Aerial Imagined Leaves (B9) ations: Present? Present? Yes sent? Yes ary fringe)	rine) Jery (B7) No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	along Living laron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation Vi Shallow Aqui FAC-neutral	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3) Fest (D5)
Depth (inche Remarks: lo indicators lo indic	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) on Visible on Aerial Imagined Leaves (B9) ations: Present? Present? Yes sent? Yes ary fringe)	rine) Jery (B7) No No No No No No	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	along Living laron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation Vi Shallow Aqui FAC-neutral	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3) Fest (D5)
Depth (inche Remarks: lo indicators lydrology Wetland Hyde Surface W High Water Saturation Water Mar Sediment Drift deporation Water-Sta Field Observa Surface Water Water Table Prosaturation Presigned Legal Describe Rec	of hydric soil. rology Indicators: cators (minimum of ater (A1) or Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonrive sits (B3) (Noneriverine) on Visible on Aerial Imagined Leaves (B9) ations: Present? Present? Yes sent? Yes ary fringe)	rine) gery (B7) No No No qauge, monit	Salt Crust (B Biotic Crust () Aquatic Inve Hydrogen Su Oxidized Rhi Presence of I Recent Iron Thin Muck Su Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines):	along Living laron (C4) in Plowed So) arks)	ils (C6) Wetla	Secondary Indi Water Marks Sediment De Drift Deposit Drainage Pat Crayfish Burr Saturation Vi Shallow Aqui FAC-neutral	cators (2 or more required) (B1) (Riverine) posits (B2) (Riverine) s (B3) Riverine) terns (B10) Vater Table (C2) pows (C8) sible on Aerial Imagery (C9) tard (D3) Fest (D5)

		:y: Payson/Utal	П	Sampli	ng Date: 09-N	/lay-16
pplicant/Owner: Utah Department of Transportation		-	State: UT	Sam	pling Point:	60
nvestigator(s): Todd Sherman	Section,	Township, Ra	ange: S 5	T 9S	R 2E	
Landform (hillslope, terrace, etc.): Swale	Local reli	ef (concave, o	convex, none): co	ncave	Slope:	
ubregion (LRR): LRR D	Lat.: 437573		Long.: 4435128	 8		n: NAD83
oil Map Unit Name: Vineyard fine sandy loam				classification		
e climatic/hydrologic conditions on the site typical for this	time of year?	Yes No		lain in Remar		
re Vegetation	significantly disturbed		lormal Circumstar			No O
				•		110
re Vegetation 🔲 , Soil 🔲 , or Hydrology 🔲 Summary of Findings - Attach site map sl	naturally problematic?	•	eded, explain any		-	ntures, etc.
		, p o				
Hydric Soil Present? Yes No	Is t	he Sampled A				
Wetland Hydrology Present? Yes No	wit	hin a Wetland	_{d?} Yes 🖲 No	o O		
5 .						
Palustrine emergent wetland in a roadside sv	ale between Main Stree	et and the was	stewater treatmen	it facility.		
VEGETATION - Use scientific names of plan	its. Domina	nt				
	Species Species	?	Dominanaa Tas	t workshoot.		
Tree Stratum (Plot size:)	Absolute Rel.Stra <u>% Cover</u> Cover	it. Indicator Status				
1	0 0.0%	<u> </u>	Number of Domir That are OBL, FA		1	(A)
2	0 0.0%	<u> </u>	Tabal Ni ada a sa	D		
3	0 0.0%	<u> </u>	Total Number of Species Across Al		1	(B)
4	0 0.0%	<u> </u>				
Sapling/Shrub Stratum (Plot size:)	0 = Total C	over	Percent of dom That Are OBL, F		:100.0	% (A/B)
1	0 0.0%	<u> </u>	Prevalence Inde	ex worksheet:		
2	0 0.0%	<u> </u>	Total % C	Cover of:	Multiply by:	
3.	00.0%	<u> </u>	OBL species	10	x 1 =	10
4. 5.	00.0%	<u> </u>	FACW species	80	x 2 =1	60
J	0		FAC species	10	x 3 =	30
(Dlot size:	0 = Total C	over	FACU species	0	x 4 =	0
Herb Stratum (Plot size:)	70 🗹 70.0%	/ FACIAL	UPL species	0	x 5 =	0
Phragmites australis Glycyrrhiza lepidota			Column Totals	s: <u>100</u>	(A) _2	<u>(B)</u>
3. Juncus balticus	$\frac{10}{10}$ $\frac{10.07}{10.09}$		Prevalence	Index = B/A	= 2.00	0
4. Carex nebrascensis	10 10.09		Hydrophytic Veg			
5.	0 0.0%		✓ Dominance	-		
6.	0 0.0%			Index is ≤3.0		
7.	00.0%	<u> </u>	Morpholog	ical Adaptatio	ns ¹ (Provide	supporting
8. 9.	00.0%	<u> </u>			separate shee	
10.	_ 0		Problemati	ic Hydrophytic	: Vegetation 1	(Explain)
11.	_ 0					
	0		1 Indicators of	hydric soil an	d wetland hyd	Irology must
Woody Vine Stratum (Plot size:)	= Total C	ovei	be present, unl	ess disturbed	or problemati	c.
1.	0					
2.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		Hydrophytic			
· <u> </u>	0 = Total C		Vegetation	Yes N	o O	
		0.00	Present?	.03 0 11	.	
% Bare Ground in Herb Stratum: %	Cover of Biotic Crust 0					

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth nee	ded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth Matrix		ox Featu			-	
(inches) Color (moist) %	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks	
0-11 10YR 2/1 100%					Loam	
11-20 10YR 5/1 100%					Loam	
		-				
1 Type: C=Concentration. D=Depletion. RM=Reduced	Matrix, CS=Covered	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Applicable to all LRRs					Indicators for Problematic Hydric Soils: ³	
Histosol (A1)	Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucky M		1)		Reduced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed				Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C)	✓ Depleted Matri		,		Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Su	` '			Utiler (Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Dark	. ,	7)			
Thick Dark Surface (A12)	Redox depressi		.,			
Sandy Muck Mineral (S1)	☐ Vernal Pools (F				³ Indicators of hydrophytic vegetation and	
Sandy Gleyed Matrix (S4)	(-,			wetland hydrology must be present.	
Restrictive Layer (if present):						
Type:						
Depth (inches):					Hydric Soil Present? Yes No	
Remarks:						
Soils meet the criteria for depleted matrix.						
Hydrology						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required;					Secondary Indicators (2 or more required)	-
Surface Water (A1)	Salt Crust (B	•			Water Marks (B1) (Riverine)	
✓ High Water Table (A2)	☐ Biotic Crust ('D42\		Sediment Deposits (B2) (Riverine)	
✓ Saturation (A3)	Aquatic Inve				Drift Deposits (B3) Riverine)	
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	☐ Hydrogen Su			Doots (C2	Drainage Patterns (B10)	
	Oxidized Rhiz			ROOIS (C3		
Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)				oile (C4)	Crayfish Burrows (C8)	
	Recent Iron I			olis (Co)	Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su				Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	U Other (Explai	in in Rema	II KS)		FAC-neutral Test (D5)	
Field Observations:						
Surface Water Present? Yes O No •	Depth (inch	nes):				
Water Table Present? Yes No	Depth (inch	nes):	11			
Saturation Present? (includes capillary fringe) Yes No	Depth (inch	nes):	0	Wetla	and Hydrology Present? Yes No	
Describe Recorded Data (stream gauge, monito	or well, aerial pho	tos, prev	ious inspec	tions), if	available:	
Remarks:						
Soils are saturated at the surface.						
Cons are suturated at the surface.						

Local Lat.: 43756	Yes No Crbed? Are "N	convex, none): CONVEX Long.: 4435129 NWI classi	Slope: Datur ification: _Upland a Remarks.) present? Yes •	61 0.0 % / 0.0 m: NAD83
Local Lat.: 43756	Yes No Crbed?	Long.: 4435129 NWI classi (If no, explain in	Slope: Datur ification: _Upland a Remarks.) present? Yes •	m: NAD83
Lat.: 437566 s time of year? significantly distu	Yes No Crbed? Are "N	Long.: 4435129 NWI classi (If no, explain in ormal Circumstances" p	Datur ification: Upland a Remarks.) present? Yes	m: NAD83
s time of year? significantly distu	Yes • No C	NWI classi (If no, explain in	ification: Upland Remarks.) present? Yes	
significantly distu	rbed? Are "N	(If no, explain in ormal Circumstances" p	n Remarks.) present? Yes	No O
significantly distu	rbed? Are "N	ormal Circumstances" p	oresent? Yes •	No O
naturally problem		•	or osome.	No \bigcirc
	atic? (If nee	Mod. ovalaja anv answe		
	(II lice		ers in Remarks)	
	ling point loc	ations, transects		atures, etc.
			<u>· · · · · · · · · · · · · · · · · · · </u>	
	-	Vac O Na 📵		
	within a Wetland	i? res o No o		
	<u> </u>			
Absolute Re	I.Strat. Indicator	Dominance Test work	sheet:	
	-			(4)
		That are OBL, FACW, or	FAC:0	(A)
				(D)
		Species Across All Strata	·:1_	(B)
				% (A/B)
0	0.0%	Prevalence Index wor	-kshoot:	
	0.0%			
0 🗆	0.0%	•		0
0 🗆	0.0%			0
	0.0%	FAC species	0 x 3 =	0
0 = To	otal Cover	FACU species	0 x 4 =	0
		UPL species	80 x 5 =	400
		Column Totals:	80 (A)	400 (B)
				10
0 🗆	0.0%			
0 🗆	0.0%			supporting
	0.0%	data in Remarks	or on a separate she	et)
	0.0%	Problematic Hyd	rophytic Vegetation ¹	(Explain)
0	0.0%			
		1 Indicators of hydric	soil and wetland hy	drology must
80 = 10	otal Cover			
, n	0.09/			
		Hydrophytic		
		Vegetation	O No (
		Present? 16S		
Cover of Biotic Cru	ist 0			
	Absolute % Cover Co	Mithin a Wetland Species Fel. Strat. Indicator Status Species Fel. Strat. Cover Status Stat	Absolute % Cover Status Number of Dominant Sp That are OBL, FACW, or Status	No No No No No No No No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	_Tvpe ¹	Loc2	Texture	Remarks
0-20	10YR 4/3	100%					Loam	
	-							
				-				
				-				
Evno: C. Concord	tration D. Donlation		Matrix CS Cayoro	d or Coato	d Cand Crain	s 21 ocot	tion: PL=Pore Lining. M=Matrix	
J.	cators: (Applicab					is -Lucai		
Histosol (A1)	cators: (Applicab	ile to all ERRS	Sandy Redox (Indicators for Problemati	c Hydric Soils:
Histic Epipedo	nn (A2)		Stripped Matrix				1 cm Muck (A9) (LRR C)	
Black Histic (A			Loamy Mucky		1)		2 cm Muck (A10) (LRR B)
Hydrogen Sulf	•						Reduced Vertic (F18)	
	ers (A5) (LRR C)		Loamy Gleyed Depleted Matri)		Red Parent Material (TF2	•
1 cm Muck (A			Redox Dark Su				Other (Explain in Remark	(S)
Depleted Belo	w Dark Surface (A1	1)			-7\			
Thick Dark Su			Depleted Dark Redox depress		-1)			
Sandy Muck M	lineral (S1)		•				³ Indicators of hydrophytic v	
Sandy Gleyed	Matrix (S4)		Vernal Pools (I	-9)			wetland hydrology must b	pe present.
estrictive Layer	r (if present):							
Type:	(p , .							
	:						Hydric Soil Present? Ye	s O No 💿
Remarks:								
	nydric soil.							
	Tydire 30ii.							
	Tyune son.							
ydrology								
ydrology /etland Hydrolo		one required;	check all that app	oly)			Secondary Indicators	s (2 or more required)
ydrology etland Hydrolo	ogy Indicators: ors (minimum of c	one required;	check all that app				Secondary Indicators Water Marks (B1) (
ydrology /etland Hydrolo	ogy Indicators: ors (minimum of o	one required;		11)				Riverine)
ydrology etland Hydrolo rimary Indicato	ogy Indicators: ors (minimum of o	one required;	Salt Crust (B	11) (B12)	(B13)		Water Marks (B1) (Riverine) (B2) (Riverine)
ydrology Vetland Hydrolo rimary Indicato Surface Water High Water Ta	ogy Indicators: ors (minimum of o	one required;	Salt Crust (B	11) (B12) rtebrates (Water Marks (B1) (Sediment Deposits	Riverine) (B2) (Riverine) Riverine)
ydrology Yetland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (ogy Indicators: ors (minimum of or (A1) able (A2)		Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ulfide Odor		Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns	Riverine) (B2) (Riverine) Riverine) (B10)
ydrology Yetland Hydrolo rimary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	ogy Indicators: ors (minimum of ortification) (A1) able (A2) (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust Aquatic Inve	11) (B12) rtebrates (ılfide Odor zospheres	(C1) along Living	Roots (C3	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2)
ydrology Vetland Hydrolo Primary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep	ogy Indicators: ors (minimum of ortification) able (A2) B) (B1) (Nonriverine) oosits (B2) (Nonriverine)	ine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	.11) (B12) rtebrates (ılfide Odor zospheres Reduced II	(C1) along Living		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (6	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2)
ydrology /etland Hydrolo rimary Indicate Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Ci	ogy Indicators: ors (minimum of ortification) able (A2) B) (B1) (Nonriverine) oosits (B2) (Nonriverine)	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	(B12) rtebrates (Ilfide Odor zospheres Reduced In	(C1) along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (6	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9)
ydrology Tetland Hydrology Tetland Hydrology Tetland Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co	orgy Indicators: ors (minimum of or (A1) able (A2) B) (B1) (Nonriverine) osits (B2) (Nonriverine) racks (B6) sible on Aerial Imag	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7)	along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits (B3) Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C Saturation Visible of	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) C3)
ydrology Vetland Hydrolo Primary Indicate Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained	ogy Indicators: ors (minimum of orthing) able (A2) B) (B1) (Nonriverine) rosits (B2) (Nonriverine) racks (B6) sible on Aerial Imag	rine)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S	(B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7)	along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) C3)
ydrology /etland Hydrology /etland Mater Ta /etland Saturation (A3 /etland Water Marks (/etland Sediment Dep /etland Dep /etland Dep /etland Hydrology /etl	ogy Indicators: ors (minimum of or (A1) able (A2) B1) (Nonriverine) osits (B2) (Nonriver (B3) (Noneriverine) racks (B6) sible on Aerial Imag i Leaves (B9)	ine) ery (B7)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7) in in Rema	along Living ron (C4) in Plowed So		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) C3)
ydrology Vetland Hydrology Vetland Hydrology Vetland Hydrology Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained iteld Observatio	ogy Indicators: ors (minimum of or (A1) able (A2) B1) (B1) (Nonriverine) osits (B2) (Nonriver (B3) (Noneriverine) racks (B6) sible on Aerial Imag I Leaves (B9) ons: sent? Yes	ery (B7)	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7) in in Remaines):	(C1) along Living ron (C4) in Plowed So) arks)		Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) C3)
ydrology /etland Hydrology /et	orgy Indicators: ors (minimum of or (A1) able (A2) B) (B1) (Nonriverine) oosits (B2) (Nonriverine) racks (B6) sible on Aerial Imag d Leaves (B9) ons: sent? Yes	ery (B7) No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (ulfide Odor zospheres Reduced In Reduction urface (C7) in in Remaines):	along Living ron (C4) in Plowed So	oils (C6)	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C Saturation Visible of Shallow Aquitard (I FAC-neutral Test (I	Riverine) (B2) (Riverine) (B10) (B10) (C2) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
ydrology Vetland Hydrolo Primary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained ield Observatio urface Water Prese Vater Table Present	pgy Indicators: ors (minimum of or (A1) able (A2) B) (B1) (Nonriverine) ossits (B2) (Nonriverine) racks (B6) sible on Aerial Imag if Leaves (B9) ons: sent? Yes Yes	ery (B7) No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(11) (B12) rtebrates (ilfide Odor zospheres Reduced In Reduction urface (C7) in in Remaines hes):	(C1) along Living ron (C4) in Plowed So) arks)	oils (C6)	Water Marks (B1) (Sediment Deposits (B3) Drift Deposits (B3) Drainage Patterns Dry Season Water Crayfish Burrows (C) Saturation Visible of Shallow Aquitard (I) FAC-neutral Test (I)	Riverine) (B2) (Riverine) Riverine) (B10) Table (C2) C8) on Aerial Imagery (C9) C3)
ydrology Vetland Hydrolo Primary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained Vield Observatio urface Water Prese Vater Table Present includes capillary	pgy Indicators: ors (minimum of or (A1) able (A2) B) (B1) (Nonriverine) ossits (B2) (Nonriverine) racks (B6) sible on Aerial Imag if Leaves (B9) ons: sent? Yes Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines): hes): hes):	(C1) along Living ron (C4) in Plowed So) arks)	wetla	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Crayfish Burrows (Crayfish Burrows (Crayfish Adultard (Compared of the Compared of	Riverine) (B2) (Riverine) (B10) (B10) (C2) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
ydrology Vetland Hydrolo Primary Indicato Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained Vield Observatio urface Water Prese Vater Table Present includes capillary Describe Record	orgy Indicators: ors (minimum of ortical) able (A2) B) (B1) (Nonriverine) rossits (B2) (Nonriverine) racks (B6) sible on Aerial Imag If Leaves (B9) ons: sent? Yes fringe) Yes	ery (B7) No No No No No No No No	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines): hes): hes):	(C1) along Living ron (C4) in Plowed So) arks)	wetla	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Crayfish Burrows (Crayfish Burrows (Crayfish Adultard (Compared of the Compared of	Riverine) (B2) (Riverine) (B10) (B10) (C2) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9) (C9
ydrology Vetland Hydrology Vetland Hydrology Primary Indicate Surface Water High Water Ta Saturation (A3 Water Marks (Sediment Dep Drift deposits Surface Soil Co Inundation Vis Water-Stained Veter Table Present aturation Present includes capillary Describe Record	orgy Indicators: ors (minimum of ortical) able (A2) B) (B1) (Nonriverine) rossits (B2) (Nonriverine) racks (B6) sible on Aerial Imag If Leaves (B9) ons: sent? Yes fringe) Yes	ery (B7) No No No No quauge, monito	Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	(B12) rtebrates (ilfide Odor zospheres Reduced II Reduction urface (C7) in in Remaines): hes): hes):	(C1) along Living ron (C4) in Plowed So) arks)	wetla	Water Marks (B1) (Sediment Deposits Drift Deposits (B3) Drainage Patterns (Crayfish Burrows (Crayfish Burrows (Crayfish Adultard (Compared of the Compared of	Riverine) (B2) (Riverine) (B10) (B10) (C2) (C8) (C9) (C9) (C9) (C9) (C9) (C9) (C9)

State: UT Sampling Point: 62
Township, Range: S 5 T 9S R 2E
ief (concave, convex, none): concave Slope: 0.0 % / 0.0
Long.: 4435141 Datum: NAD83
NWI classification: PSS
Yes No (If no, explain in Remarks.)
? Are "Normal Circumstances" present? Yes • No
F
(If needed, explain any answers in Remarks.) point locations, transects, important features, etc.
the Sampled Area
hin a Wetland? Yes No
tewater treatment facility.
int
?
at. Indicator Dominance Test worksheet: Status
Number of Dominant Species That are OBL, FACW, or FAC: 1 (A)
6
Total Number of Dominant Species Across All Strata: 1 (B)
<u></u>
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
% FACW Prevalence Index worksheet:
0BL species 0 x 1 = 0
FACW species <u>100</u> x 2 = <u>200</u>
FAC species x 3 =
FACU species $0 \times 4 = 0$
UPL species $0 \times 5 = 0$
Column Totals: <u>100</u> (A) <u>200</u> (B)
Prevalence Index = B/A = 2.000
Hydrophytic Vegetation Indicators:
Dominance Test is > 50%
Prevalence Index is ≤3.0 ¹
Morphological Adaptations ¹ (Provide supporting
data in Remarks or on a separate sheet)
Problematic Hydrophytic Vegetation ¹ (Explain)
6,
over Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
25 p. 555, amous distanced of problematic.
5
Hydrophytic Vegetation
over Present? Yes • No ·
6

 $^{{}^{\}star} \text{Indicator suffix} = \text{National status or professional decision assigned because Regional status not defined by FWS}.$

Profile Description: (Describe to the depth nee	ded to document	the indic	ator or co	nfirm the	absence of indicators.)	
Depth Matrix		ox Featu			-	
(inches) Color (moist) %	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks	
0-11 10YR 2/1 100%					Loam	
11-20 10YR 5/1 100%					Loam	
		-				
1 Type: C=Concentration. D=Depletion. RM=Reduced	Matrix, CS=Covered	d or Coate	d Sand Grai	ns ² Locat	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Indicators: (Applicable to all LRRs					Indicators for Problematic Hydric Soils: ³	
Histosol (A1)	Sandy Redox (1 cm Muck (A9) (LRR C)	
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)	
Black Histic (A3)	Loamy Mucky M		1)		Reduced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed				Red Parent Material (TF2)	
Stratified Layers (A5) (LRR C)	✓ Depleted Matri		,		Other (Explain in Remarks)	
1 cm Muck (A9) (LRR D)	Redox Dark Su	` '			Utiler (Explain in Remarks)	
Depleted Below Dark Surface (A11)	Depleted Dark	. ,	7)			
Thick Dark Surface (A12)	Redox depressi		.,			
Sandy Muck Mineral (S1)	☐ Vernal Pools (F				³ Indicators of hydrophytic vegetation and	
Sandy Gleyed Matrix (S4)	(-,			wetland hydrology must be present.	
Restrictive Layer (if present):						
Type:						
Depth (inches):					Hydric Soil Present? Yes No	
Remarks:						
Soils meet the criteria for depleted matrix.						
Hydrology						
Wetland Hydrology Indicators:						
Primary Indicators (minimum of one required;					Secondary Indicators (2 or more required)	-
Surface Water (A1)	Salt Crust (B	•			Water Marks (B1) (Riverine)	
✓ High Water Table (A2)	☐ Biotic Crust ('D42\		Sediment Deposits (B2) (Riverine)	
✓ Saturation (A3)	Aquatic Inve				Drift Deposits (B3) Riverine)	
Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	☐ Hydrogen Su			Doots (C2	Drainage Patterns (B10)	
	Oxidized Rhiz			ROOIS (C3		
Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6)				oile (C4)	Crayfish Burrows (C8)	
	Recent Iron I			olis (Co)	Saturation Visible on Aerial Imagery (C9)	
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su				Shallow Aquitard (D3)	
Water-Stained Leaves (B9)	U Other (Explai	in in Rema	II KS)		FAC-neutral Test (D5)	
Field Observations:						
Surface Water Present? Yes O No •	Depth (inch	nes):				
Water Table Present? Yes No	Depth (inch	nes):	11			
Saturation Present? (includes capillary fringe) Yes No	Depth (inch	nes):	0	Wetla	and Hydrology Present? Yes No	
Describe Recorded Data (stream gauge, monito	or well, aerial pho	tos, prev	ious inspec	tions), if	available:	
Remarks:						
Soils are saturated at the surface.						
Cons are suturated at the surface.						

Project/Site: I-15 Payson Main Street I	nterchange EIS		City/County: Payson/Uta	h	Sampling	Date: 09-Ma	y-16
Applicant/Owner: Utah Department o	f Transportation		-	State: UT	Sampl	ng Point:	63
Investigator(s): Todd Sherman			Section, Township, R	ange: S 5	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom		Local relief (concave,	convex, none): CO	ncave	Slope:	
Subregion (LRR): LRR D		Lat.: 4	37599	Long.: 4435339)	Datum:	
Soil Map Unit Name: Vineyard fine s	andy loam				classification: [,
re climatic/hydrologic conditions or		or this time of year'	? Yes • No		lain in Remarks.		
Are Vegetation, Soil	, or Hydrology			lormal Circumstan		_	No O
					•		10 0
Are Vegetation	, or Hydrology ttach site ma		•	eded, explain any cations, trans			ures, etc.
Hydrophytic Vegetation Present?	Yes No				, <u>, , , , , , , , , , , , , , , , , , </u>		
Hydric Soil Present?	Yes ● No	\supset	Is the Sampled A				
Wetland Hydrology Present?	Yes No	\supset	within a Wetland	_{d?} Yes 💿 No	\circ		
Remarks: Palustrine emergent v	vetland created by	y a ground water se	ер.				
VEGETATION - Use scien	ntific names of	f plants.	Dominant Special 2				
		Absolute	— Species? ————————————————————————————————————	Dominance Test	t worksheet:		
Tree Stratum (Plot size:)	% Cover		Number of Domin	ant Species		
1			0.0%	That are OBL, FAC	CW, or FAC:	4	_ (A)
2			0.0%	Total Number of D	Dominant		
4.			0.0%	Species Across All	Strata:	4	_ (B)
			= Total Cover	Percent of domi That Are OBL, F		100.0%	(A/B)
Sapling/Shrub Stratum (Plot size:		0	0.0%				
1 2.			0.0%	Prevalence Inde			
3.			0.0%	Total % C		ultiply by:	
4.			0.0%	OBL species		1 = 80	
5.			0.0%	FACW species		2 = 40	_
				FAC species		3 =0	
Herb Stratum (Plot size:)	0	= Total Cover	FACU species	0	4 = 0	_
1. Eleocharis palustris		25	✓ 25.0% OBL	UPL species	x	5 = 0	
2. Schoenoplectus acutus		25	✓ 25.0% OBL	Column Totals	s: <u>100</u> (A) 120	<u>0</u> (B)
3. Schoenoplectus americanus			✓ 20.0% OBL	Prevalence	Index = B/A =	1.200	_
4. Juncus balticus		20	✓ 20.0% FACW	Hydrophytic Veg	etation Indicate	ors:	
5. Nasturtium officinale			10.0%OBL	✓ Dominance	e Test is > 50%		
6			0.0%	✓ Prevalence	Index is ≤3.0 ¹		
7.			0.0%	Morphologi	ical Adaptations	1 (Provide su	upporting
8. 9.					narks or on a se		
10.			0.0%	Problemati	c Hydrophytic V	egetation ¹ (I	Explain)
11.			0.0%				
			= Total Cover		hydric soil and v		ology must
Woody Vine Stratum (Plot size:)			be present, unle	ess disturbed or	problematic.	
1.	<u> </u>	0	0.0%				
2.			0.0%	Hydrophytic			
		0	= Total Cover	Vegetation Present?	Yes • No	\circ	
% Bare Ground in Herb Stratum	ı: 0	% Cover of Bioti	c Crust ₀				
Remarks:				I .			
The area meets the vegetation crit	eria.						
The area meets the regetation the	oria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the dept	h needed to document t	he indicator or	confirm the	absence of indicators.)	
Depth Matrix		x Features	1 2	Tantona	Danie auto
(inches) Color (moist) %	Color (moist)	% Type	Loc ²	Texture	Remarks
0-20 10YR 3/1 100%				Peat	
				_	
				_	
	,				
1 Type: C=Concentration. D=Depletion. RM=Re		or Coated Sand G	rains 21 ocat	tion: DI – Pore Lining M – Mat	riv
, , , , , , , , , , , , , , , , , , ,			rairis Local		
Hydric Soil Indicators: (Applicable to all				Indicators for Probler	
✓ Histosol (A1)☐ Histic Epipedon (A2)	Sandy Redox (S			1 cm Muck (A9) (LR	•
Black Histic (A3)	Stripped Matrix			2 cm Muck (A10) (LI	RR B)
✓ Hydrogen Sulfide (A4)	Loamy Mucky M			Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed M			Red Parent Material	(TF2)
1 cm Muck (A9) (LRR D)	Depleted Matrix	• •		Other (Explain in Re	marks)
Depleted Below Dark Surface (A11)	Redox Dark Surf				
Thick Dark Surface (A12)	Depleted Dark S	Surface (F7)			
Sandy Muck Mineral (S1)	Redox depression	ons (F8)		³ Indicators of hydrophy	tic vogotation and
	Vernal Pools (F9	9)		wetland hydrology m	ust be present.
Sandy Gleyed Matrix (S4)					·
Restrictive Layer (if present):					
Type:				Hydric Soil Present?	Yes No
Depth (inches):				nyunc son Present?	res 😊 No 🔾
Remarks:					
Soil is a histosol, and emits a hydrogen su	Ifide odor when excavate	ed.			
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one requ	uired: check all that apply	v)		Secondary Indica	ators (2 or more required)
✓ Surface Water (A1)	Salt Crust (B1			Water Marks (I	
✓ High Water Table (A2)	☐ Biotic Crust (B	312)			osits (B2) (Riverine)
✓ Saturation (A3)	Aquatic Invert			Drift Deposits	
Water Marks (B1) (Nonriverine)	── . Hydrogen Sulf ✓ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐			☐ Drainage Patte	
Sediment Deposits (B2) (Nonriverine)		ospheres along Liv	ina Roots (C3	_	
Drift deposits (B3) (Noneriverine)		educed Iron (C4)		Crayfish Burrov	• •
Surface Soil Cracks (B6)		eduction in Plowe	t Soils (C6)		ble on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Sur		2 00113 (00)	Shallow Aquita	
Water-Stained Leaves (B9)	Other (Explain			FAC-neutral Te	
Water-Stallied Leaves (b9)	Other (Explain	i iii keiiiaiks)		FAC-neutral re	st (D5)
Field Observations: Surface Water Present? Yes No	Depth (inche	\			
Currace Water Freedom		es):1	_		
Water Table Present? Yes • No	Depth (inche	es):0	_ ,,,	and this base of the	Yes ● No ○
Saturation Present? (includes capillary fringe) Yes • No	Depth (inche	es):0		and Hydrology Present?	Yes ⊕ No ∪
Describe Recorded Data (stream gauge, r	nonitor well, aerial photo	os, previous ins	ections), if	available:	
Remarks:					
Soils emit a hydrogen sulfide odor when e	excavated, and were inur	ndated.			

Applicant/Owner: Utah Department of Transport Investigator(s): Todd Sherman Landform (hillslope, terrace, etc.): Valley be subregion (LRR): LRR D soil Map Unit Name: Vineyard fine sandy load the climatic/hydrologic conditions on the site.			Section, Townshi	State: UT o, Range: S 5	S am	pling Point: R 2E	64
Landform (hillslope, terrace, etc.): Valley be Subregion (LRR): LRR D soil Map Unit Name: Vineyard fine sandy load the climatic/hydrologic conditions on the site.	ottom			o, Range: S 5	T 9S	R 2F	
Subregion (LRR): LRR D Soil Map Unit Name: Vineyard fine sandy load to be climatic/hydrologic conditions on the site	ottom						
coil Map Unit Name: Vineyard fine sandy load re climatic/hydrologic conditions on the site			Local relief (conca	ve, convex, none): fla	et -	Slope:	0.0 % / 0.0
e climatic/hydrologic conditions on the site		Lat.: 43	7595	Long.: 443533	4	 Datun	n: NAD83
e climatic/hydrologic conditions on the site	n			NWI	classification	 : Upland	•
		time of year?	Yes N		lain in Remar		
Are Vegetation 🔲 💹 , Soil 🔲 🔀 , or Hyd		significantly d	isturbed? Ar	e "Normal Circumstar	nces" present?	Yes •	No O
-	drology 🗌	naturally prob		needed, explain any	•		
Summary of Findings - Attach			•				itures, etc.
Hydrophytic Vegetation Present? Yes	No ●		Is the Sampl	ad Araa			
Hydric Soil Present? Yes	No ●		Is the Sampl	Vee O N	. •		
Wetland Hydrology Present? Yes	No ●		within a Wet	land? fes 🔾 N	0		
Remarks: Upland area adjacent to SP-63							
opiana area aujacent to 3i -oc	•						
VEGETATION - Use scientific na	mes of plar	nts.	Dominant				
		Absolute	Species? ————————————————————————————————————	ntor Dominance Tes	t worksheet:		
<u>Tree Stratum</u> (Plot size:)		% Cover	Cover Statu	Number of Domir	nant Species		
1			0.0%	That are OBL, FA	CW, or FAC:	0	(A)
2				Total Number of	Dominant		
34.		0 [Species Across Al	l Strata:	1	(B)
T		0	0.0%	Percent of dom	inant Species		
Sapling/Shrub Stratum (Plot size:)	=	= Total Cover	That Are OBL, F		: 0.0%	6 (A/B)
1.		0 [0.0%	Prevalence Inde	ex worksheet:		
2.			0.0%	Total % (Multiply by:	
3.		0 [0.0%	OBL species	0		0
4.		0	0.0%	FACW species	0		0
5.			0.0%	FAC species	10		30
		0 =	= Total Cover	FACU species	90	x 4 = 3	60
Herb Stratum (Plot size:)				UPL species	0	x 5 =	0
1. Festuca pratensis			⊻ 80.0% FACU	Column Totals	s: 100	(A) 3	90 (B)
2. Taraxacum officinale			10.0% FACU				
3. Poa pratensis 4.			10.0% FAC 0.0%	_	Index = B/A		<u>J</u>
5.			0.0%	Hydrophytic Ve	_		
6.		- - 0	0.0%		e Test is > 50° e Index is ≤3.0		
7.		0 [0.0%				
8.		0	0.0%	Morpholog data in Rei	ical Adaptatio marks or on a	ns ¹ (Provide separate shee	supporting t)
9.		0[0.0%			Vegetation 1	
10. 11.		0[0.0%	_	,		(
· · · · · · · · · · · · · · · · · · ·		0	0.0%	_ 1			
		100=	= Total Cover	1 Indicators of be present, unl			
Woodv Vine Stratum (Plot size:)		_				
1		0	0.0%	_			
2			0.0%	Hydrophytic Vegetation			
		=	= Total Cover	Present?	Yes O N	o	
% Bare Ground in Herb Stratum: 0	<u></u> %	Cover of Biotic	Crust_0	_			
Remarks:							
The area does not meet the vegetation criti	eria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix		Red	lox Featur				
(inches) Color (moist)		Color (moist)	%	1	Loc2	Texture	Remarks
0-20 10YR 3/3	100%					Loam	
			-				
Type: C=Concentration. D=Deplet	ion DM Dodusor	d Matrix CS Covers	d or Coato	d Sand Crains	21 ocatio	on, DL Doro Lining M Mo	triv
•				u Saliu Glailis	LUCALIC		
lydric Soil Indicators: (Applic ☐ Histosol (A1)	able to all LRRS					Indicators for Proble	•
Histic Epipedon (A2)		Sandy Redox (Stripped Matrix				1 cm Muck (A9) (LR	•
Black Histic (A3)				`		2 cm Muck (A10) (L	·
Hydrogen Sulfide (A4)		Loamy Mucky I				Reduced Vertic (F18	•
Stratified Layers (A5) (LRR C)		Loamy Gleyed)		Red Parent Material	• •
1 cm Muck (A9) (LRR D)		Depleted Matri	` ,			Other (Explain in Re	emarks)
Depleted Below Dark Surface (A11)			7)			
Thick Dark Surface (A12)		Depleted Dark		7)			
Sandy Muck Mineral (S1)		Redox depress				3 Indicators of hydrophy	ytic vegetation and
Sandy Gleyed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrology m	nust be present.
estrictive Layer (if present):							
• • •							
Type:							
Type:						Hydric Soil Present?	Yes ○ No •
Depth (inches):						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:						Hydric Soil Present?	Yes ○ No ●
Depth (inches):						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:		_				Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks: indicators of hydric soil.						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks: o indicators of hydric soil.		_				Hydric Soil Present?	Yes O No O
Depth (inches):emarks: o indicators of hydric soil. ydrology //etland Hydrology Indicators:	f one required:	check all that and	alw)				
Depth (inches):emarks: indicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of	f one required;					Secondary Indic	ators (2 or more required)
Depth (inches):emarks: Dindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum compared to surface Water (A1)	f one required;	Salt Crust (B	11)			Secondary Indic	ators (2 or more required)
pepth (inches):emarks: indicators of hydric soil. ydrology etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2)	f one required;	Salt Crust (B	11) (B12)	R13)		Secondary Indic	ators (2 or more required) (B1) (Riverine) osits (B2) (Riverine)
Depth (inches): demarks: indicators of hydric soil. ydrology /etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (l			Secondary Indic Water Marks (Sediment Dep	ators (2 or more required) B1) (Riverine) osits (B2) (Riverine) (B3) Riverine)
Depth (inches):emarks: prindicators of hydric soil. getland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (l ulfide Odor	(C1)	Poots (C3)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10)
Depth (inches):emarks: prindicators of hydric soil. Petland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	11) (B12) rtebrates (l ulfide Odor zospheres	(C1) along Living F	Roots (C3)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2)
Depth (inches):	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	.11) (B12) rtebrates (l ulfide Odor zospheres Reduced Ir	(C1) along Living F on (C4)		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8)
Depth (inches): demarks: dema	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (I ulfide Odor zospheres Reduced In	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	Cators (2 or more required) (B1) (Riverine) (Dissits (B2) (Riverine) (B3) Riverine) (B10) (Cater Table (C2) (C8) (C9) (C9)
pepth (inches): emarks: indicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) rtebrates (lalfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches):emarks: prindicators of hydric soil. ydrology /etland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (lalfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
Depth (inches):emarks: prindicators of hydric soil. Petland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) reld Observations:	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(11) (B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches): emarks: pindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) reld Observations: Urface Water Present? Ye	verine) ie) agery (B7) s No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(11) (B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches): emarks: chindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) rield Observations: Urface Water Present? Ye	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction lurface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi rks)	Is (C6)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Deftal hydrology Indicators: Def	verine) e) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Is (C6)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
Depth (inches): Itemarks: Dindicators of hydric soil. Identicators Identicators of hydric soil. Identicators: Identicators of hydric soil. Identicators	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Deftal hydrology Indicators: Def	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Depth (inch	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): Itemarks: Dindicators of hydric soil. Identicators Identicators of hydric soil. Identicators: Identicators of hydric soil. Identicators	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Paysor	n/Utah Sampling Date: 10-May-16
Applicant/Owner: Utah Department of Transportation		State: UT Sampling Point: 65
nvestigator(s): Todd Sherman	Section, Townshi	ip, Range: \$ 32 T 8S R 2E
Landform (hillslope, terrace, etc.): Swale	Local relief (conca	ave, convex, none): concave Slope:0.0 % /_ 0
ubregion (LRR): LRR D	Lat.: 437536	Long.: 4435875 Datum: NAD83
pil Map Unit Name: Holdaway silt loam		NWI classification: PEM
e climatic/hydrologic conditions on the site typical for t	this time of year? Yes	
re Vegetation , Soil , or Hydrology	¬	re "Normal Circumstances" present? Yes • No
are Vegetation, Soil, or Hydrology		If needed, explain any answers in Remarks.)
	•	: locations, transects, important features, etc.
Hydrophytic Vegetation Present? Yes No	snowing sampling point	incations, transects, important reatures, etc.
Hydric Soil Present? Yes No	Is the Samp	
Wetland Hydrology Present?	within a We	etland? Yes No
5 .		
Remarks: Palustrine emergent wetland created by an	n artesian well pipe.	
VEGETATION - Use scientific names of p	olants. Dominant	
	Species? ————————————————————————————————————	cator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Cover Statu	
1	0	That are OBL, FACW, or FAC:3 (A)
2	0	Total Number of Dominant
3	0	Species Across All Strata: 3 (B)
4	0 0.0%	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0 0.0%	Prevalence Index worksheet:
2.	0 0.0%	Total % Cover of: Multiply by:
3.	0 0.0%	OBL species 100 x 1 = 100
4.	0 0.0%	FACW species 0 x 2 = 0
5.	0 0.0%	FAC species x 3 =
(5)	0 = Total Cover	FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:)		UPL species $0 \times 5 = 0$
1. Eleocharis palustris	40 ✓ 40.0% OBL 30 ✓ 30.0% OBL	Column Totals: 100 (A) 100 (B)
Ranunculus sceleratus Nasturtium officinale	30 30.0% OBL	
4.	0 0.0%	Hydrophytic Vegetation Indicators:
5.	0 0.0%	Dominance Test is > 50%
6.	0 0.0%	Prevalence Index is ≤3.0 ¹
7.	00.0%	Morphological Adaptations ¹ (Provide supporting
8. 9.	0	data in Remarks or on a separate sheet)
10.	0 0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
11.	0	
	100 = Total Cover	1 Indicators of hydric soil and wetland hydrology must
Woody Vine Stratum (Plot size:)	100	be present, unless disturbed or problematic.
1.	0 0.0%	
	0 0.0%	Hydrophytic
2.		
	0 = Total Cover	Vegetation Present? Yes No

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Profile Description:	: (Describe to	the depth n	eeded to docum	nent the indi	cator or co	nfirm the	absence of indicators.)	
1				0-1 (1 2	- Tautum	Dama anton
1 Type: C-Concentration: D-Depletion: RM-Reduced Matrix, CS-Covered or Costed Sand Grains 2 Location: PL-Pore Lining: M-Matrix Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Indicators: (Applicable to all LRRs, unless o				Color (moisi	<u>%</u>	IVDE	LOC2		Remarks
Type: C-Concentration. D-Depletion. RM-Reduced Matrix. CS-Covered or Coated Sand Grains *Location: PL-Pore Lining. M-Matrix Hydric Soil Indicators: (Applicable to all LRRs., unless otherwise noted.) Indicators for Problematic Hydric Soils.3 1 cm Muck (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils.3 1 cm Muck (Applicable to all LRRs. unless otherwise noted.) Indicators for Problematic Hydric Soils.3 1 cm Muck (Applicable to all LRRs. unless otherwise noted.) 1 cm Muck (Applicable to all LRRs. unless otherwise noted.) 1 cm Muck (Applicable to all LRRs. unless otherwise noted.) 2 cm Muck (Applicable to all LRRs. unless otherwise noted.) 2 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 3 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs. unless otherwise noted.) 4 cm Muck (Applicable to all LRRs.				2.575					
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)	8-20 10	YR 4/2	95%	2.5YR 4/	6 5%		IVI	Loam	
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.) Histosol (A1)									
Histosol (A1)	,						ns ² Loca		
Histic Epipedon (A2)	_	ors: (Applicab	ole to all LR)		Indicators for Problems	atic Hydric Soils: ³
Black Histic (A3)				_				1 cm Muck (A9) (LRR	C)
Hydrogen Sulfide (A4)		A2)		_				2 cm Muck (A10) (LRF	R B)
Stratified Layers (A5) (LRR C)	_	· (A4)						Reduced Vertic (F18)	
□ 1 cm Muck (A9) (LRR D) □ Redox Dark Surface (F6) □ Depleted Below Dark Surface (A11) □ Depleted Dark Surface (F7) □ Thick Dark Surface (A12) □ Redox depressions (F8) □ Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Thick Dark Surface (A12) □ Redox depressions (F8) □ Sandy Gleyed Matrix (S4) □ Vernal Pools (F9) □ Thick Dark Surface (A12) □ Redox depressions (F8) □ Type: □ Depth (inches): □ Hydric Soil Present? Yes ● No □ Remarks: Restrictive Layer (If present): Type: □ Depth (inches): □ Hydric Soil Present? Yes ● No □ Remarks: Soils meet the criteria for depleted matrix. So	_ , ,			_		2)		Red Parent Material (TF2)
Depleted Below Dark Surface (A11)	_							Other (Explain in Rem	arks)
□ Thick Dark Surface (A12) □ Depieted Dark Surface (F/) □ Sandy Muck Mineral (S1) □ Vernal Pools (F9) □ Indicators of hydrophytic vegetation and wetland hydrology must be present. Restrictive Layer (if present): Type: □ Depth (inches): □ Hydric Soil Present? Yes No □ Remarks: Soils meet the criteria for depleted matrix. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) □ Secondary Indicators (2 or more required) □ Surface Water (A1) □ Salt Crust (B11) □ Water Marks (B1) (Riverine) □ Water Marks (B1) (Riverine) □ Sediment Deposits (B2) (Riverine) □ Hydrogen Sulfide Odor (C1) □ Drainage Patterns (B10) □ Sediment Deposits (B2) (Nonriverine) □ Oxidized Rhizospheres along Living Roots (C3) □ Dry Season Water Table (C2) □ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8) □ Sutration Visible on Aerial Imagery (C9)			1)	_					
Sandy Muck Mineral (S1)		,	.,			F7)			
Sandy Gleyed Matrix (S4)								3 Indicators of hydrophytic	c vegetation and
Restrictive Layer (if present): Type:				Vernal Po	ols (F9)			wetland hydrology mus	st be present.
Type:	Restrictive Laver (i	f present):							
Remarks: Soils meet the criteria for depleted matrix. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) Sult Crust (B11) Water Marks (B1) (Riverine) Wigh Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	-	. р. сосу.							
Remarks: Soils meet the criteria for depleted matrix. Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Aquatic Invertebrates (B13) Mater Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)	• • • • • • • • • • • • • • • • • • • •							Hydric Soil Present?	Yes ● No ○
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift Deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Sulface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)									
Hydrology Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Secondary Indicators (2 or more required) Surface Water (A1) High Water Table (A2) Biotic Crust (B12) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Riverine) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)		ia for doplotoe	d matrix						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)	Solis meet the criter	ia foi depieted	a mauna.						
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)									
Wetland Hydrology Indicators: Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Aquatic Invertebrates (B13) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Sediment Deposits (B2) (Nonriverine) Water Marks (B1) (Nonriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Secondary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Drift Deposits (B3) (Riverine) Drainage Patterns (B10) Dry Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9)									
Primary Indicators (minimum of one required; check all that apply) Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Riverine) Water Marks (B2) (Riverine) Water Marks (B3) (Riverine) Primary Indicators (2 or more required) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)	Hydrology								
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)	Wetland Hydrology	Indicators:							
Surface Water (A1) Salt Crust (B11) Water Marks (B1) (Riverine) Sediment Deposits (B2) (Riverine) Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)	Primary Indicators	(minimum of	one require	d: check all that	apply)			Secondary Indicat	ors (2 or more required)
✓ Saturation (A3) Aquatic Invertebrates (B13) Drift Deposits (B3) Riverine) Water Marks (B1) (Nonriverine) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Sediment Deposits (B2) (Nonriverine) Oxidized Rhizospheres along Living Roots (C3) Dry Season Water Table (C2) Drift deposits (B3) (Noneriverine) Presence of Reduced Iron (C4) Crayfish Burrows (C8) Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)			0110 1 0 q u 11 0					-	
✓ Saturation (A3) ☐ Aquatic Invertebrates (B13) ☐ Drift Deposits (B3) Riverine) ☐ Water Marks (B1) (Nonriverine) ☐ Hydrogen Sulfide Odor (C1) ☐ Drainage Patterns (B10) ☐ Sediment Deposits (B2) (Nonriverine) ☐ Oxidized Rhizospheres along Living Roots (C3) ☐ Dry Season Water Table (C2) ☐ Drift deposits (B3) (Noneriverine) ☐ Presence of Reduced Iron (C4) ☐ Crayfish Burrows (C8) ☐ Surface Soil Cracks (B6) ☐ Recent Iron Reduction in Plowed Soils (C6) ☐ Saturation Visible on Aerial Imagery (C9)	✓ High Water Table	e (A2)		☐ Biotic C	rust (B12)			Sediment Depos	its (B2) (Riverine)
Water Marks (B1) (Nonriverine)	✓ Saturation (A3)			Aquatic	Invertebrates	(B13)		_	
□ Drift deposits (B3) (Noneriverine) □ Presence of Reduced Iron (C4) □ Crayfish Burrows (C8) □ Surface Soil Cracks (B6) □ Recent Iron Reduction in Plowed Soils (C6) □ Saturation Visible on Aerial Imagery (C9)	Water Marks (B1)	(Nonriverine)		☐ Hydroge	en Sulfide Odo	r (C1)		☐ Drainage Pattern	ns (B10)
Surface Soil Cracks (B6) Recent Iron Reduction in Plowed Soils (C6) Saturation Visible on Aerial Imagery (C9)	Sediment Deposit	ts (B2) (Nonrive	rine)	Oxidized	d Rhizospheres	along Living	g Roots (C3	3) Dry Season Wat	er Table (C2)
	Drift deposits (B3	3) (Noneriverine))	Presenc	e of Reduced I	Iron (C4)		Crayfish Burrows	s (C8)
Inundation Visible on Aerial Imagery (B7) Thin Muck Surface (C7) Shallow Aquitard (D3)	Surface Soil Crack	ks (B6)		Recent	Iron Reduction	in Plowed S	Soils (C6)	Saturation Visibl	e on Aerial Imagery (C9)
— onanow regulated (20)	Inundation Visible	e on Aerial Imag	gery (B7)	Thin Mu	ıck Surface (C7	')		Shallow Aquitare	i (D3)
☐ Water-Stained Leaves (B9) ☐ Other (Explain in Remarks) ☐ FAC-neutral Test (D5)	Water-Stained Le	eaves (B9)		Other (I	Explain in Rem	arks)		▼ FAC-neutral Tes	t (D5)
Field Observations:	Field Observations								
Surface Water Present? Yes No Depth (inches):		V	O No @	Depth	(inches):				
			No.)	(il)	0	_		
Wetland Hydrology Present? Yes • No					(inches):	0	Wetla	and Hydrology Present?	Yes ● No ○
Saturation Present? (includes capillary fringe) Yes No Depth (inches):0		_{ige)} Yes ⁽	No C) Depth	(inches):	0	-	3 03	
Describe Recorded Data (stream gauge, monitor well, aerial photos, previous inspections), if available:			gauge, mor	nitor well, aerial	photos, prev	vious inspe	ctions), if	available:	
	Describe Recorded								
	Describe Recorded								
Remarks:	Describe Recorded Remarks:								
Remarks: Soils are saturated at the surface.	Remarks:	at the surface.							

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: P	ayson/utan	Samplin	g Date: 10-M	ay-16
pplicant/Owner: Utah Department of Transportation		State: UT	Samp	ling Point:	66
nvestigator(s): Todd Sherman	Section, Tov	nship, Range: S 32	T_8S	R 2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (c	concave, convex, none): fla	at	Slope:	0.0 % / 0
ubregion (LRR): LRR D	Lat.: 437536	Long.: 443587	0	Datum	: NAD83
bil Map Unit Name: Holdaway silt loam		NWI	classification:	Upland	
e climatic/hydrologic conditions on the site typical for t	his time of year? Yes	● No ○ (If no, exp	lain in Remarks	i.)	
re Vegetation $\ \square$, Soil $\ \square$, or Hydrology $\ \square$	significantly disturbed?	Are "Normal Circumstar	nces" present?	Yes	No \bigcirc
re Vegetation . , Soil . , or Hydrology	naturally problematic?	(If needed, explain any	answers in Rer	marks.)	
Summary of Findings - Attach site map	showing sampling po	int locations, trans	sects, impo	rtant fea	tures, etc.
Hydrophytic Vegetation Present? Yes No •	Is the S	ampled Area			
Hydric Soil Present? Yes O No •		Vac O N	. •		
Wetland Hydrology Present? Yes ○ No ●	within a	a Wetland? Yes ∪ No	,		
Remarks: Upland area adjacent to SP-65.					
VEGETATION - Use scientific names of p	lants. Dominant Species?				
T (Plot size:	Absolute Rel.Strat.		t worksheet:		
Tree Stratum (Plot size:)		Number of Domir		0	(4)
1 2.		That are OBL, FA	CVV, OI FAC:	0	(A)
3.	0 0.0%	Total Number of Species Across Al		2	(B)
4.	0 0.0%	Species Across Ar	i Strata.		(b)
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	Percent of dom That Are OBL, F		0.0%	(A/B)
1	0 0.0%	Prevalence Inde	x worksheet:		
2	0	Total % C	Cover of:	Multiply by:	
3	0 0.0%	OBL speci es		(1 =	0
4. 5.	0	FACW species		(2 =	0
	0	FAC species		(3 =	0
Herb Stratum (Plot size:)	0 = Total Cover	FACU species		` '	00
1. Festuca pratensis	55 ✓ 55.0%	FACU UPL species	;	< 5 =(0
Trifolium repens	20 🛂 20.0%	FACU Column Totals	s: <u>100</u>	(A) <u>4</u> (00 (B)
3. Taraxacum officinale	15 15 00/	FACU Prevalence	Index = B/A =	4.000)
4.	0 0.0%	Hydrophytic Ve	getation Indica	tors:	
5	00.0%	Dominance	e Test is > 50%	,	
6. 7.	0	Prevalence	Index is ≤3.0	1	
8.	0		ical Adaptation		
9.	0 0.0%		marks or on a s		
10.	0 0.0%	Problemati	ic Hydrophytic \	egetation '	(Explain)
11.	0 0.0%				
	100 = Total Cover	1 Indicators of be present, unl			
Woodv Vine Stratum (Plot size:)		be present, uni	ess disturbed o	r problematic	••
1	0 0.0%				
2.	0 0.0%	Hydrophytic			
	0 = Total Cover	Vegetation Present?	Yes O No	\odot	
% Bare Ground in Herb Stratum: 0	% Cover of Biotic Crust 0				

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	,							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

437470 r? Yes No y disturbed? Are roblematic? (If	Long.: 4435885 Datum: NAD83 NWI classification: PEM O (If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) Ocations, transects, important features, etc. Id Area and? Yes No No Nominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Local relief (concave 437470 The relief (concave 437470	Long.: 4435885 Datum: NAD83 NWI classification: PEM O (If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) Ocations, transects, important features, etc. Id Area and? Yes No No Nominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
y disturbed? Are roblematic? (If ampling point le within a Wetla pipe. Dominant Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0%	NWI classification: PEM O (If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) Ocations, transects, important features, etc. Id Area and? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
r? Yes No	NWI classification: PEM O
Is the Sample within a Wetlat pipe. Dominant Species? Rel. Strat. Cover 0.0%	(If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) Ocations, transects, important features, etc. Id Area and? Yes No Total Number of Dominant Species That are OBL, FACW, or FAC: 2 (A) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
Is the Sample within a Wetlat pipe. Dominant Species? Rel. Strat. Cover 0.0%	(If no, explain in Remarks.) "Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) Ocations, transects, important features, etc. Id Area and? Yes No Total Number of Dominant Species That are OBL, FACW, or FAC: 2 (A) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
Is the Sample within a Wetlater Cover Status Dominant Species? Rel. Strat. Cover Cover Cover	"Normal Circumstances" present? Yes No needed, explain any answers in Remarks.) ocations, transects, important features, etc. d Area and? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
Is the Sample within a Wetland pipe. Dominant Species? Rel Strat. Cover Status 0.0% 0.0% 0.0% 0.0% Total Cover	needed, explain any answers in Remarks.) ocations, transects, important features, etc. d Area and? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
Is the Sample within a Wetla pipe. Dominant Species? Rel.Strat. Indicat Status 0.0% 0.0% 0.0% 0.0% 10.0%	ocations, transects, important features, etc. Indicated and? Yes No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Is the Sample within a Wetla pipe. Dominant Species? Rel.Strat. Indicat Cover Status 0.0% 0.0% 0.0% 0.0%	And? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet:
Dominant Species? Rel Strat. Cover Status 0.0% 0.0% 0.0% 0.0%	And? Yes No No Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% Prevalence Index worksheet:
Dominant Species? Rel.Strat. Indicat Cover Status 0.0% 0.0% 0.0% 0.0%	tor Dominance Test worksheet: Number of Dominant Species That are OBL, FACW, or FAC: 2 (A) Total Number of Dominant Species Across All Strata: 2 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
Dominant Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Dominant Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Species? Rel.Strat. Cover Status 0.0% 0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
Rel.Strat. Indicated Status 0.0% 0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC: Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
0.0% 0.0% 0.0% 0.0% Total Cover	Number of Dominant Species That are OBL, FACW, or FAC:
0.0% 0.0% 0.0% Total Cover	Total Number of Dominant Species Across All Strata: Percent of dominant Species That Are OBL, FACW, or FAC: Prevalence Index worksheet:
0.0% 0.0% = Total Cover	Species Across All Strata: 2 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
= Total Cover	Species Across All Strata: 2 (B) Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
= Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
_	That Are OBL, FACW, or FAC: 100.0% (A/B) Prevalence Index worksheet:
0.0%	
0.0%	Total % Cover of: Multiply by:
0.0%	0BL species 70 x 1 = 70
0.0%	FACW species 0 x 2 = 0
0.0%	FAC species 0 x 3 = 0
= Total Cover	FACU species $0 \times 4 = 0$
	UPL species $0 \times 5 = 0$
✓ 57.1% OBL	Column Totals:70 (A)70 (B)
✓ 42.9% OBL	_
0.0%	
0.0%	Hydrophytic Vegetation Indicators: ✓ Dominance Test is > 50%
0.0%	Prevalence Index is ≤3.0 1
0.0%	Morphological Adaptations ¹ (Provide supporting
0.0%	data in Remarks or on a separate sheet)
0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
0.0%	1 Indicators of hydric soil and wetland hydrology must
= Total Cover	be present, unless disturbed or problematic.
0.0%	-
0.0%	Hydrophytic Vegetation
0.0% = Total Cover	
0.0%	Vegetation
	0.0% 0.0% 0.0% Total Cover

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth r	eeded to document	the indicator or co	nfirm the	absence of indicators.)	
Depth Matrix		ox Features			
(inches) Color (moist) %	Color (moist)	<u>% Tvpe</u> 1	Loc ²	Texture	Remarks
0-8 10YR 3/2 100%				Loam	
8-20 10YR 4/2 95%	2.5YR 4/6	5% C	M	Loam	
1 Type: C=Concentration. D=Depletion. RM=Redu	ced Matrix, CS=Covered	or Coated Sand Grai	ns ² Loca	tion: PL=Pore Lining, M=Matrix	
Hydric Soil Indicators: (Applicable to all LR				Indicators for Problemat	ic Hydric Soils-3
Histosol (A1)	Sandy Redox (S			1 cm Muck (A9) (LRR C	•
Histic Epipedon (A2)	Stripped Matrix			2 cm Muck (A10) (LRR I	
Black Histic (A3)	Loamy Mucky M			Reduced Vertic (F18)) -
Hydrogen Sulfide (A4)	Loamy Gleyed M			Red Parent Material (TF	2)
Stratified Layers (A5) (LRR C)	✓ Depleted Matrix			Other (Explain in Remai	,
1 cm Muck (A9) (LRR D)	Redox Dark Sur	* *		<u></u> Отнег (Explain in Remai	NO)
Depleted Below Dark Surface (A11)	Depleted Dark S	• •			
Thick Dark Surface (A12)	Redox depression				
Sandy Muck Mineral (S1)	☐ Vernal Pools (F			³ Indicators of hydrophytic	vegetation and
Sandy Gleyed Matrix (S4)	vernar roots (r	· ·		wetland hydrology must	be present.
Restrictive Layer (if present):					
Туре:					
Depth (inches):				Hydric Soil Present? Y	es No
Remarks:					
Soils meet the criteria for depleted matrix.					
John Theet the effected for depicted matrix.					
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one require					rs (2 or more required)
Surface Water (A1)	Salt Crust (B1	•		Water Marks (B1)	•
✓ High Water Table (A2)	☐ Biotic Crust (E			Sediment Deposits	
Saturation (A3)		tebrates (B13)		Drift Deposits (B3	
Water Marks (B1) (Nonriverine)		fide Odor (C1)		Drainage Patterns	
Sediment Deposits (B2) (Nonriverine)		ospheres along Living	Roots (C3		
Drift deposits (B3) (Noneriverine)		educed Iron (C4)		Crayfish Burrows	• •
Surface Soil Cracks (B6)		Reduction in Plowed S	oils (C6)		on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Su			Shallow Aquitard	
Water-Stained Leaves (B9)	U Other (Explain	n in Remarks)		✓ FAC-neutral Test	(D5)
Field Observations:					
Surface Water Present? Yes O No	Depth (inch	es):			
Water Table Present? Yes No	Depth (inch	es): 8			
		,	Wetla	and Hydrology Present?	Yes ● No ○
Saturation Present? (includes capillary fringe) Yes No	Depth (inch	es): 0	-		
Describe Recorded Data (stream gauge, moi	nitor well, aerial phot	os, previous inspe	ctions), if	available:	
-					
Remarks:					

h site map sh ss No ss No ss No ss No ss No conservations	Lat.: 43 time of year? significantly d naturally prob	Yes No	Range: S 32 T 8S convex, none): flat Long.: 4435881 NWI classification (If no, explain in Remain	narks.)
site typical for this Hydrology	Lat.: 43 time of year? significantly d naturally prob	Yes No	convex, none): flat Long.: 4435881 NWI classification (If no, explain in Remandary preserved edd, explain any answers in cations, transects, improved the control of the	Slope: 0.0 % / 0 Datum: NAD83 on: Upland arks.) nt? Yes No
site typical for this Hydrology	Lat.: 43 time of year? significantly d naturally prob	Yes No Olisturbed? Are "I olematic? (If no ompling point looks the Sampled	Long.: 4435881 NWI classification (If no, explain in Remains and Circumstances preserveded, explain any answers in cations, transects, improved the company of the cations and the cations are cations.)	Datum: NAD83 on: Upland arks.) nt? Yes No Remarks.)
Hydrology	time of year? significantly d naturally prob	Yes No	NWI classification (If no, explain in Remander Preserved ed., explain any answers in cations, transects, improved the second edge of the second ed	on: Upland Parks.) Int? Yes No O Remarks.)
Hydrology	significantly d	listurbed? Are "lolematic? (If no mpling point local list the Sampled	(If no, explain in Remain Normal Circumstances" preserveded, explain any answers in cations, transects, im	narks.) nt? Yes • No ·
Hydrology	significantly d	listurbed? Are "lolematic? (If no mpling point local list the Sampled	(If no, explain in Remain Normal Circumstances" preserveded, explain any answers in cations, transects, im	narks.) nt? Yes • No ·
Hydrology	significantly d	listurbed? Are "lolematic? (If no mpling point local list the Sampled	cations, transects, im	Remarks.)
h site map shes No les	owing sa	olematic? (If no mpling point loo	cations, transects, im	Remarks.)
h site map shes No les	owing sa	mpling point lo	cations, transects, im	
No ONO ONO ONO ONO ONO ONO ONO ONO ONO O		Is the Sampled	Area No. No.	· · · · · · · · · · · · · · · · · · ·
P-67.		-	Vac O Na 📵	
c names of plan		within a Wetlan		
names of plan		<u> </u>		
names of plan				
· · ·				
· · ·				
	TS.	Dominant		
	Absolute	—Species? ————————————————————————————————————	r Dominance Test worksheet	t:
_)	% Cover	Cover Status	Number of Dominant Species	
			That are OBL, FACW, or FAC:	(A)
		0.0%	Total Number of Dominant	
		0.0%	Species Across All Strata:	2(B)
		0.0%	Percent of dominant Specie	PS.
)	0	= Total Cover	That Are OBL, FACW, or FA	
	0	0.0%	Prevalence Index workshee	et·
		0.0%	Total % Cover of:	Multiply by:
	0	0.0%		
	0	0.0%		
	0		FAC species 0	x 3 = 0
	0	= Total Cover	FACU species 100	x 4 = 400
_)			UPL species 0	x 5 = 0
			Column Totals: 100	(A) 400 (B)
			_	
	0	0.0%		
	0	0.0%	data in Remarks or on	i a separate sheet)
	0	0.0%	Problematic Hydrophy	ytic Vegetation ¹ (Explain)
			1 Indicators of hydric soil	and wetland hydrology must
	100	= Total Cover	be present, unless disturbe	
			I hadroni	
			Vogotation	
			Present? Yes	No •
	Cover of Biotic	: Crust 0		
<u> </u>				
%(
)	0 0 0 0 0 0 0 30 0 0 0 0 0 0 0 0 0 0 0	0	0

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matrix		Red	lox Featur				
(inches) Color (moist)		Color (moist)	%	1	Loc2	Texture	Remarks
0-20 10YR 3/3	100%					Loam	
			-				
Type: C=Concentration. D=Deplet	ion DM Dodusor	d Matrix CS Covers	d or Coato	d Sand Crains	21 ocatio	on, DL Doro Lining M Mo	triv
•				u Saliu Glailis	LUCALIC		
lydric Soil Indicators: (Applic ☐ Histosol (A1)	able to all LRRS					Indicators for Proble	•
Histic Epipedon (A2)		Sandy Redox (Stripped Matrix				1 cm Muck (A9) (LR	•
Black Histic (A3)				`		2 cm Muck (A10) (L	·
Hydrogen Sulfide (A4)		Loamy Mucky I				Reduced Vertic (F18	•
Stratified Layers (A5) (LRR C)		Loamy Gleyed)		Red Parent Material	• •
1 cm Muck (A9) (LRR D)		Depleted Matri	` ,			Other (Explain in Re	emarks)
Depleted Below Dark Surface (A11)			7)			
Thick Dark Surface (A12)		Depleted Dark		7)			
Sandy Muck Mineral (S1)		Redox depress				3 Indicators of hydrophy	ytic vegetation and
Sandy Gleyed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrology m	nust be present.
estrictive Layer (if present):							
• • •							
Type:							
Type:						Hydric Soil Present?	Yes ○ No •
Depth (inches):						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:						Hydric Soil Present?	Yes ○ No ●
Depth (inches):						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:		_				Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks:						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks: indicators of hydric soil.						Hydric Soil Present?	Yes ○ No ●
Depth (inches):emarks: o indicators of hydric soil.		_				Hydric Soil Present?	Yes O No O
Depth (inches):emarks: o indicators of hydric soil. ydrology //etland Hydrology Indicators:	f one required:	check all that and	alw)				
Depth (inches):emarks: indicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of	f one required;					Secondary Indic	ators (2 or more required)
Depth (inches):emarks: Dindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1)	f one required;	Salt Crust (B	11)			Secondary Indic	ators (2 or more required)
pepth (inches):emarks: indicators of hydric soil. ydrology etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2)	f one required;	Salt Crust (B	11) (B12)	R13)		Secondary Indic	ators (2 or more required) (B1) (Riverine) osits (B2) (Riverine)
Depth (inches): demarks: indicators of hydric soil. ydrology /etland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (l			Secondary Indic Water Marks (Sediment Dep Drift Deposits	ators (2 or more required) B1) (Riverine) osits (B2) (Riverine) (B3) Riverine)
Depth (inches):emarks: prindicators of hydric soil. getland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (l ulfide Odor	(C1)	Poots (C3)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10)
Depth (inches):emarks: prindicators of hydric soil. Petland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine)	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	11) (B12) rtebrates (l ulfide Odor zospheres	(C1) along Living F	Roots (C3)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2)
Depth (inches):	verine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	.11) (B12) rtebrates (l ulfide Odor zospheres Reduced Ir	(C1) along Living F on (C4)		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8)
Depth (inches): demarks: dema	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (I ulfide Odor zospheres Reduced In	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	Cators (2 or more required) (B1) (Riverine) (Dissits (B2) (Riverine) (B3) Riverine) (B10) (Cater Table (C2) (C8) (C9) (C9)
pepth (inches): emarks: indicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) rtebrates (lalfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches):emarks: prindicators of hydric soil. ydrology /etland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9)	verine) e)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) rtebrates (lalfide Odor zospheres Reduced In Reduction urface (C7)	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
Depth (inches):emarks: prindicators of hydric soil. Petland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) reld Observations:	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(11) (B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches): emarks: pindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) reld Observations: Urface Water Present? Ye	verine) ie) agery (B7) s No •	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(11) (B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi		Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
pepth (inches): emarks: coindicators of hydric soil. ydrology retland Hydrology Indicators: rimary Indicators (minimum of surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverine) Sediment Deposits (B2) (Nonriverine) Drift deposits (B3) (Noneriverine) Surface Soil Cracks (B6) Inundation Visible on Aerial Im Water-Stained Leaves (B9) rield Observations: Urface Water Present? Ye	verine) ie) agery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction lurface (C7) in in Rema	(C1) along Living F on (C4) in Plowed Soi rks)	Is (C6)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Deftal hydrology Indicators: Def	verine) e) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (I Ilfide Odor zospheres Reduced In Reduction urface (C7) in in Rema hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Is (C6)	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis	cators (2 or more required) (B1) (Riverine) (osits (B2) (Riverine) (B3) Riverine) erns (B10) (ater Table (C2) (ws (C8) (observed ible on Aerial Imagery (C9) (observed ible on Aerial Im
Depth (inches): Itemarks: Dindicators of hydric soil. Identicators Identicators of hydric soil. Identicators: Identicators of hydric soil. Identicators	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Depth (inches): Demarks: Dindicators of hydric soil. Deftal hydrology Indicators: Def	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): demarks: dema	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)
Depth (inches): Itemarks: Dindicators of hydric soil. Identicators Identicators of hydric soil. Identicators: Identicators of hydric soil. Identicators	verine) agery (B7) S	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) rtebrates (luffide Odor zospheres Reduced In Reduction furface (C7) in in Remaines): hes): hes):	(C1) along Living F on (C4) in Plowed Soi rks)	Wetlar	Secondary Indic Water Marks (Sediment Dep Drift Deposits Drainage Patt Dry Season W Crayfish Burro Saturation Vis Shallow Aquit FAC-neutral T	cators (2 or more required) (B1) (Riverine) (B3) Riverine) (B3) Riverine) erns (B10) (ater Table (C2) ws (C8) ible on Aerial Imagery (C9) ard (D3) est (D5)

Project/Site: I-15 Payson Main Street Int	erchange E	IS		ity/County:	Payson/Utal	h	Samp	ling Date: <u>10-1</u>	May-16
Applicant/Owner: Utah Department of T	ransportat	ion				State: UT	Sar	mpling Point:	69
Investigator(s): Todd Sherman				Section, To	wnship, Ra	ange: S 32	T 8S	R 2E	
Landform (hillslope, terrace, etc.): S	wale			Local relief	(concave, d	convex, none): CO	ncave	Slope:	0.0 % / 0
			 Lat.: 43	37486		Long.: 4435987	,	Datur	n: NAD83
oil Map Unit Name: Holdaway silt loa	m					NWI	classificatio	n: PFM	-
e climatic/hydrologic conditions on the		pical for thi	s time of vear	Yes	. ● No ○		ain in Rema		
	or Hydro		significantly		Are "N	ormal Circumstan			No O
	or Hydro		naturally pro				•		
Summary of Findings - Atta						eded, explain any ations, trans			atures, etc.
	Yes	No O	3						
Hydric Soil Present?	Yes	No 🔾		Is the	Sampled A		\bigcirc		
•	Yes	No 🔾		within	a Wetland	_{1?} Yes 💿 No) (
		-							
Remarks: Palustrine emergent we	tiana crea	ated by an a	rtesian well pi	pe.					
VEGETATION - Use scient	ific nam	nes of pla	nts.	Dominant					
			Absolute	—Species? Rel.Strat.	Indicator	Dominance Test	worksheet:		
Tree Stratum (Plot size:)		% Cover		Status	Number of Domin	ant Species		
1				0.0%		That are OBL, FAG		4	(A)
2				0.0%		Total Number of [Oominant		
3			0	0.0%		Species Across All		4	(B)
4			0	0.0%		Danasat of dans			
_Sapling/Shrub Stratum (Plot size: _)	0	= Total Cove	er	Percent of domi That Are OBL, F)% (A/B)
1			0	0.0%		Prevalence Inde	x worksheet	:	
2			0	0.0%		Total % C	over of:	Multiply by:	
3			0	0.0%		OBL species	55	x 1 =	<u>55</u>
4.			0	0.0%		FACW species	15	x 2 =	30
5.				0.0%		FAC species	0	x 3 =	0
451	,		0	= Total Cove	er	FACU species	0	x 4 =	0
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Carex nebrascensis				21.4%	OBL	Column Totals	:70	(A)	85 (B)
				✓ 21.4% ✓ 21.4%	OBL	Prevalence	Index = B/A	= 1.21	4
Phalaris arundinacea Schoenoplectus americanus				14.3%	FACW OBL				4
Typha latifolia				21.4%	OBL	Hydrophytic Veg Dominance			
6.				0.0%			Index is ≤3		
7.			0	0.0%					
8.			0	0.0%		data in Ren	icai Adaptati narks or on a	ons ¹ (Provide a separate she	supporting et)
9.			0	0.0%				ic Vegetation ¹	
10. 11.			0	0.0%			, , , -		(=======
· · · · · · · · · · · · · · · · · · ·				0.0%		1			
			70	= Total Cove	er	1 Indicators of be present, unle			
Woodv Vine Stratum (Plot size:)				-		<u> </u>	
1				0.0%					
2			0	0.0%		Hydrophytic Vegetation			
			0	= Total Cove	ar .		Yes I	No 🔾	
				- Iotal cove	-1	Present?	163 🔾 1	10 \bigcirc	
% Bare Ground in Herb Stratum:	30	%	Cover of Bioti			Present?	163 🔾 1	10 ©	
% Bare Ground in Herb Stratum:	30	%				Present?	163 🔾 1		

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descr	iption: (Descri	be to the	depth nee	ded to documen	t the indi	cator or co	nfirm the	absence of indicators.)	
Depth		trix		Re	dox Featu			-	
(inches)	Color (mo	ist)	%	Color (moist)	%	_Tvpe 1	Loc ²	Texture	Remarks
0-8	10YR	3/2 1	00%					Loam	
8-20	10YR	4/2 9	5% :	2.5YR 4/6	5%	С	M	Loam	
	-				-				
								•	
1 Type: C=Con	centration. D=D	epletion. RI	—— .— √=Reduced	Matrix. CS=Cover	ed or Coate	ed Sand Gra	ins ² Locat	tion: PL=Pore Lining. M=Matrix	
				, unless otherwi				Indicators for Problematic I	Judria Sailsa ³
Histosol (A		, pou	- u	Sandy Redox		,		1 cm Muck (A9) (LRR C)	Tyuric Solis.~
Histic Epip	•			Stripped Matr				2 cm Muck (A10) (LRR B)	
Black Histi				Loamy Mucky		1)			
Hydrogen	Sulfide (A4)			Loamy Gleyed				Reduced Vertic (F18)	
Stratified I	Layers (A5) (LRR	C)		Depleted Mat		-/		Red Parent Material (TF2)	
1 cm Muck	k (A9) (LRR D)			Redox Dark S	` ,	١		Other (Explain in Remarks)	
Depleted 6	Below Dark Surfa	ice (A11)		Depleted Dar					
☐ Thick Dark	k Surface (A12)			Redox depres		. , ,		_	
Sandy Mud	ck Mineral (S1)			Vernal Pools				³ Indicators of hydrophytic veg	etation and
Sandy Gle	yed Matrix (S4)			verriar roots	(1.7)			wetland hydrology must be	present.
Restrictive La	ayer (if presen	t):							
Type:									
Depth (inch	nes):							Hydric Soil Present? Yes	No
Remarks:									
Soils meet the	e criteria for de	epleted ma	ntrix.						
John Moot the	oritoria for ac	protourne							
Hydrology	,								
	•								
	rology Indicate								
		ım of one	required;	check all that ap				Secondary Indicators (
Surface W	` ,			Salt Crust (•			Water Marks (B1) (Ri	,
✓ High Wate				☐ Biotic Crust				Sediment Deposits (B	
✓ Saturation	• •			Aquatic Inv				Drift Deposits (B3) Ri	,
	rks (B1) (Nonrive			Hydrogen S				Drainage Patterns (B	·
	Deposits (B2) (N				•	-	g Roots (C3	= ,	· '
	sits (B3) (Noneri	verine)		Presence of			0 11 (0()	Crayfish Burrows (C8)	
	oil Cracks (B6)		(D.T)			in Plowed :	Soils (C6)	Saturation Visible on	
	n Visible on Aeria		(B7)	Thin Muck :				Shallow Aquitard (D3	
Water-Sta	ined Leaves (B9)			U Other (Expl	ain in Rem	arks)		FAC-neutral Test (D5))
Field Observa	ations:								
Surface Water	Present?	Yes	No O	Depth (in	ches):	2	_		
Water Table Pr	resent?	Yes	No 🔾	Depth (in	ches):	0	_		
Saturation Pres (includes capill		Yes	No O	Depth (in	ches):	0	Wetla	and Hydrology Present? Yes	s ● No ○
		ream gau	ge, monito	or well, aerial ph	otos, prev	ious inspe	ctions), if	available:	
100		,	. ,	,	, , , , , , , ,		-,,		
Remarks:									
Soils are inun	ndated								
Jons are mun	idatou.								

			County: Payson/Uta	···		ate: <u>10-Ma</u>	.y-16
Applicant/Owner: Utah Department of	Transportation			State: UT	Sampling	Point:	70
Investigator(s): Todd Sherman		Se	ction, Township, R	ange: S 32 T	8S R	2E	
Landform (hillslope, terrace, etc.):	Valley bottom	Loc	al relief (concave,	convex, none): flat	SI	ope:	0.0 % / 0.
Subregion (LRR): LRR D		Lat.: 43749	0	Long.: 4435993		Datum:	NAD83
oil Map Unit Name: Taylorsville silty	clav loam			NWI clas	ssification: Up	and	-
e climatic/hydrologic conditions on		this time of year?	Yes No				
Are Vegetation, Soil	, or Hydrology	significantly dist	urbed? Are "N	Iormal Circumstances	" present?	Yes ⊙	No O
Are Vegetation, Soil	, or Hydrology	naturally problem		eded, explain any ans	-	ke)	
Summary of Findings - At			•				ures, etc.
Hydrophytic Vegetation Present?	Yes O No)	Is the Sampled /	Nr.o.			
Hydric Soil Present?	Yes O No @)	Is the Sampled A	Vac O Na 🕒)		
Wetland Hydrology Present?	Yes O No 🖲)	within a Wetland	d? res ∪ No ⊚	•		
Remarks: Upland area adjacent t							
opiana area adjacem t	10 31 -07.						
VEGETATION - Use scien	tific names of		ominant				
			pecies? ———el.Strat. Indicator	Dominance Test wo	orksheet:		
Tree Stratum (Plot size:)	% Cover Co	over Status	Number of Dominant	Species		
1			0.0%	That are OBL, FACW,	or FAC:	1	(A)
2			0.0%	Total Number of Dom	inant		
3 4.			0.0%	Species Across All Stra	ata:	2	_ (B)
T			0.0%	Percent of dominan	t Species		
Sapling/Shrub Stratum (Plot size:)	<u> </u>	otal Cover	That Are OBL, FAC		50.0%	(A/B)
1.		0	0.0%	Prevalence Index w	orksheet.		
2.			0.0%	Total % Cove		iply by:	
3.		0 🗆	0.0%	OBL species	0 x 1		1
4.		0 🗆	0.0%	FACW species	0 x 2	-	
5.			0.0%	FAC species	50 x 3		
		0 = T	otal Cover	FACU species	50 x 4	= 20	0
Herb Stratum (Plot size:)			UPL species	x 5	_ 0	
1. Festuca pratensis			50.0% FACU	Column Totals:	100 (A)	35	0 (B)
			50.0% FAC				
3 4.			0.0%	Prevalence Ind		3.500	
4 5.			0.0%	Hydrophytic Vegeta		:	
6.			0.0%	Dominance Tes			
7.			0.0%				
8.		0	0.0%	Morphological data in Remark	Adaptations ' s or on a sepa	(Provide su rate sheet)	upporting
9.		0 🗆	0.0%	Problematic Hy			
10.		0	0.0%		u.opnyno rog	otation (Explain,
11.			0.0%	1			
		100 = T	otal Cover	1 Indicators of hyd be present, unless			
Woodv Vine Stratum (Plot size:)				•		
1			0.0%				
2			0.0%	Hydrophytic Vegetation			
		0 = T	otal Cover		s 🔾 No 💿		
			otal covel	Present? Ye	3 0 110 0		
% Bare Ground in Herb Stratum:	:_0	% Cover of Biotic Cr		Present?			
% Bare Ground in Herb Stratum:	:_0			Present?			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	,							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

Project/Site: I-15 Payson Main Street I	nterchange EIS	Ci	ty/County: Payson	/Utah	Sampli	ng Date: 10-M	/lay-16
Applicant/Owner: Utah Department of	f Transportation			State: UT	Sam	pling Point:	71
Investigator(s): Todd Sherman			Section, Townshi	p, Range: S 9	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Valley bottom	[Local relief (conca	ve, convex, none): CO	ncave	Slope:	0.0 % / 0.0
Subregion (LRR): LRR D		Lat.: 438	3768	Long.: 4434090)	 Datun	n: NAD83
Soil Map Unit Name: Vineyard fine sa	andy loam			NWI	classification	: Unland	
re climatic/hydrologic conditions on		is time of vear?	Yes	. 0	ain in Remark		
Are Vegetation, Soil	, or Hydrology	significantly d		e "Normal Circumstan			No O
Are Vegetation , Soil	, or Hydrology	naturally prob			•		
Summary of Findings - At			·	f needed, explain any a locations, trans			itures, etc.
Hydrophytic Vegetation Present?	Yes ○ No ●				<u> </u>		
Hydric Soil Present?	Yes 🔾 No 💿		Is the Sampl	Vac O Na			
Wetland Hydrology Present?	Yes ○ No •		within a Wet	land? Yes V	,		
Remarks: Mesic upland area.							
VEGETATION - Use scien	ntific names of pla	nts.	Dominant				
		Absolute	-Species? ————————————————————————————————————	ator Dominance Test	worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Statu	Number of Domina	ant Species		
1		0[0.0%	That are OBL, FAC	CW, or FAC:	1_	(A)
2			0.0%	Total Number of D)ominant		
3			0.0%	Species Across All		3	(B)
4		0	0.0%	Derecht of domi	nant Chaolas		
Sapling/Shrub Stratum (Plot size:)	0 =	= Total Cover	Percent of domi That Are OBL, F.		: 33.39	% (A/B)
1		0	0.0%	Prevalence Inde	x worksheet:		
2			0.0%	Total % C	over of:	Multiply by:	
3			0.0%	OBL species	20	x 1 =	20
4. 5.		0	0.0%	FACW species	25	x 2 =	50
J		0	0.0%	FAC species	0	x 3 =	0
4-1 - 1	,	0 =	= Total Cover	FACU species	45	x 4 =1	80
Herb Stratum (Plot size:)	r		UPL species	0	x 5 =	0
1. Juncus balticus			✓ 27.8% FACW	Column Totals	: 90	(A) 2	250 (B)
			✓ 22.2% FACU ✓ 22.2% FACU		Index = B/A =		
Trifolium repens Carex nebrascensis		<u>20</u> [<u>✓ 22.2%</u> FACU 11.1% OBL	_			<u>o</u>
5 Dammandus analamatus				Hydrophytic Veg	•		
6. Taraxacum officinale			5.6% FACU		Test is > 509 Index is ≤3.0	_	
7.			0.0%				
8.			0.0%	──	cal Adaptation narks or on a	ns ¹ (Provide separate shee	supporting et)
9.		0	0.0%			Vegetation 1	
10.		0[0.0%		s riyar opriyero	vegetation	(Explain)
11.			0.0%	_ 1			
		90=	= Total Cover	1 Indicators of I be present, unle			
Woodv Vine Stratum (Plot size:)						
1		o[0.0%	_			
2		0[0.0%	Hydrophytic Vegetation			
		0 =	= Total Cover	Present?	Yes O No	o	
% Bare Ground in Herb Stratum	: 10 %	Cover of Biotic	Crust 0				
Remarks:							
	ation critoria						
Remarks: The area does not meet the vegeta	ition criteria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the d	epth needed to documen	t the indicator or o	onfirm the a	absence of indicators.)	
Depth Matrix		dox Features			
(inches) Color (moist) 9		<u>% Tvpe</u> ¹	Loc ²	Texture	Remarks
0-20 10YR 2/2 100)%			Loam	
		- 			
1 Type: C=Concentration. D=Depletion. RM	=Reduced Matrix, CS=Covere	ed or Coated Sand Gr	ains ² Locat	ion: PL=Pore Lining. M=Matrix	X
Hydric Soil Indicators: (Applicable to	all LRRs, unless otherwis	se noted.)		Indicators for Problema	atic Hydric Soils: ³
Histosol (A1)	Sandy Redox	(S5)		1 cm Muck (A9) (LRR	-
Histic Epipedon (A2)	Stripped Matr	ix (S6)		2 cm Muck (A10) (LRF	R B)
Black Histic (A3)	Loamy Mucky	Mineral (F1)		Reduced Vertic (F18)	
Hydrogen Sulfide (A4)	Loamy Gleyed	d Matrix (F2)		Red Parent Material (1	ΓF2)
Stratified Layers (A5) (LRR C)	Depleted Mate	rix (F3)		Other (Explain in Rem	arks)
1 cm Muck (A9) (LRR D)	Redox Dark S	urface (F6)			
Depleted Below Dark Surface (A11)	Depleted Dark	k Surface (F7)			
☐ Thick Dark Surface (A12) ☐ Sandy Muck Mineral (S1)	Redox depres	sions (F8)		³ Indicators of hydrophytic	s vogotation and
Sandy Gleyed Matrix (S4)	Vernal Pools ((F9)		wetland hydrology mus	
_ , , ,					·
Restrictive Layer (if present):					
Type:				Hydric Soil Present?	Yes ○ No •
Depth (inches):				,	100 0 110 0
Remarks:					
No indicators of hydric soil.					
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one re	equired; check all that ap	ply)		Secondary Indicat	ors (2 or more required)
Surface Water (A1)	Salt Crust (I	B11)		Water Marks (B1) (Riverine)
High Water Table (A2)	Biotic Crust	(B12)		Sediment Depos	its (B2) (Riverine)
Saturation (A3)	Aquatic Inve	ertebrates (B13)		Drift Deposits (E	33) Riverine)
Water Marks (B1) (Nonriverine)		ulfide Odor (C1)		Drainage Patterr	
Sediment Deposits (B2) (Nonriverine)		nizospheres along Livi	ng Roots (C3)	Dry Season Wate	er Table (C2)
Drift deposits (B3) (Noneriverine)		Reduced Iron (C4)		Crayfish Burrows	
Surface Soil Cracks (B6)		Reduction in Plowed	Soils (C6)		e on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (E				Shallow Aquitard	` '
☐ Water-Stained Leaves (B9)	U Other (Expl	ain in Remarks)		FAC-neutral Test	t (D5)
Field Observations:	(2)				
Surface Water Present? Yes	No O Depth (inc	ches):	_		
Water Table Present? Yes	No Depth (inc	ches):	_		
Saturation Present? (includes capillary fringe) Yes	No Depth (inc	ches):	Wetla	nd Hydrology Present?	Yes ○ No •
Describe Recorded Data (stream gauge	e, monitor well, aerial pho	otos, previous insp	ections), if a	available:	
Remarks:					
No indicators of wetland hydrology.					

y: Payson/Utah Sampling Date: 10-May-16
State: UT Sampling Point: 72
Township, Range: \$ 9 T 9S R 2E
ef (concave, convex, none): concave Slope:0.0 % / 0.0
Long.: 4434035 Datum: NAD83
NWI classification: PEM (es No (If no. explain in Remarks.)
(······, ··· - ·································
F
(If needed, explain any answers in Remarks.) point locations, transects, important features, etc.
ne Sampled Area
nin a Wetland? Yes No
o. nt
t. Indicator Dominance Test worksheet:
Status Number of Dominant Species
That are OBL, FACW, or FAC: (A)
Total Number of Dominant
Species Across All Strata: (B)
Percent of dominant Species That Are OBL, FACW, or FAC: 100.0% (A/B)
Prevalence Index worksheet:
Total % Cover of: Multiply by:
OBL species55_ x 1 = _55_
FACW species <u>45</u> x 2 = <u>90</u>
FAC species0_ x 3 =0_
over FACU species $0 \times 4 = 0$
UPL species x 5 =0
Column Totals: 100 (A) 145 (B)
OBL OBL
o OBL Prevalence Index = B/A = 1.450
- FACW Hydrophytic Vegetation Indicators:
Dominance Test is > 50%
Prevalence Index is ≤3.0 ¹
Morphological Adaptations ¹ (Provide supporting
data in Kemarks of on a separate sheety
Problematic Hydrophytic Vegetation ¹ (Explain)
over 1 Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
-
Hydrophytic Vegetation
over Present? Yes • No •

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Descri	ption: (Describe to	the depth nee	ded to document	the indic	cator or co	nfirm the	absence of indicators.)	
Depth	Matrix			dox Featu				
(inches)	Color (moist)	<u>%</u>	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture	Remarks
0-20	10YR 2/1	100%					Loam	
1 Type: C=Cond	entration. D=Depletio	n. RM=Reduced	Matrix, CS=Covere	ed or Coate	ed Sand Grai	ins ² Locat	tion: PL=Pore Lining. M=Matrix	
Hydric Soil Ir	ndicators: (Applical	ole to all LRRs	, unless otherwis	e noted.)	١		Indicators for Problematic I	Hydric Soils: ³
Histosol (A			Sandy Redox	(S5)			1 cm Muck (A9) (LRR C)	
Histic Epipe			Stripped Matri	x (S6)			2 cm Muck (A10) (LRR B)	
Black Histic			Loamy Mucky	Mineral (F	1)		Reduced Vertic (F18)	
Hydrogen S			Loamy Gleyed	Matrix (F2	2)		Red Parent Material (TF2)	
	ayers (A5) (LRR C)		Depleted Matr	ix (F3)			Other (Explain in Remarks)	
l —	(A9) (LRR D)	1)	Redox Dark Su	urface (F6)				
1 = '	elow Dark Surface (A1 Surface (A12)	1)	Depleted Dark	Surface (I	- 7)			
			Redox depress	sions (F8)			³ Indicators of hydrophytic vego	otation and
l — ,	k Mineral (S1) ed Matrix (S4)		Vernal Pools (F9)			wetland hydrology must be	
	yer (if present):							
Type:	`						Hydric Soil Present? Yes	No
•	es):		_				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Remarks:								
							meeting the definition of a hydrometric meeting the definition of a hydrometric meeting the meeting the definition of a hydrometric meeting the definition of the de	ric soil. Based on the
presence of or	ligate species and s	surrace satura	tion, these soils a	ire assum	ied to be n	yarıc.		
Hydrology								
Wetland Hydr	ology Indicators:							
	ators (minimum of	one required;					Secondary Indicators (2 or more required)
Surface Wa	` ,		Salt Crust (E	•			Water Marks (B1) (Riv	·
High Water			☐ Biotic Crust				Sediment Deposits (B	2) (Riverine)
Saturation	• •		Aquatic Inve				Drift Deposits (B3) Ri	, , , , , , , , , , , , , , , , , , ,
	ks (B1) (Nonriverine)		☐ Hydrogen Su				Drainage Patterns (B1	·
_	Deposits (B2) (Nonrive		Oxidized Rh		-	g Roots (C3		` '
	its (B3) (Noneriverine)	Presence of				Crayfish Burrows (C8)	
	I Cracks (B6)	(==)	Recent Iron			Soils (C6)	Saturation Visible on	0 , , ,
	Visible on Aerial Imag	gery (B7)	☐ Thin Muck S				Shallow Aquitard (D3)	
Water-Stail	ned Leaves (B9)		Other (Expla	ain in Rema	arks)		FAC-neutral Test (D5))
Field Observa		O						
Surface Water F			Depth (inc	hes):		_		
Water Table Pre	esent? Yes	● No ○	Depth (inc	hes):	1			s • No O
Saturation Pres (includes capilla	YAC	● No ○	Depth (inc	hes):	0	Wetla	and Hydrology Present? Yes	s ● No ○
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	otos, prev	ious inspe	ctions), if	available:	
Remarks:								
Soils are satu	rated at the surface	. Hillside seer	zone above a dr	ainage.				
		- r		J -				

Project/Site: I-15 Payson Main Street	Interchange EIS	City	y/County: Payson/Uta	h	Sampli	ing Date: 10-M	1ay-16
Applicant/Owner: Utah Department o	of Transportation			State: UT	Sam	npling Point:_	73
Investigator(s): Todd Sherman			Section, Township, R	ange: S 9	T 9S	R 2E	
Landform (hillslope, terrace, etc.)	: Valley bottom	L	ocal relief (concave,	convex, none):	_	Slope:	0.0 % / 0.0
Subregion (LRR): LRR D		Lat.: 438	707	Long.: 443403	32	— Datun	n: NAD83
Soil Map Unit Name: Vineyard fine s	sandy loam			NW	I classification	 I: Upland	
re climatic/hydrologic conditions of		is time of year?	Yes No		olain in Remari		
Are Vegetation, Soil	, or Hydrology	significantly dis	sturbed? Are "N	lormal Circumsta	nces" present	? Yes ⊙	No O
Are Vegetation , Soil	, or Hydrology	naturally proble		eded, explain any	•		
Summary of Findings - A			•				itures, etc.
Hydrophytic Vegetation Present?	Yes ○ No •		In the Committee of A				
Hydric Soil Present?	Yes O No 💿		Is the Sampled A	Vaa O N	ı. (A)		
Wetland Hydrology Present?	Yes 🔾 No 💿		within a Wetland	d? res ∪ N	.0 😊		
Remarks: Upland area adjacent	t to SP-72						
Opiana area adjacem	1 10 31 -72.						
VEGETATION - Use scie	ntific names of pla		Dominant				
			Species? ————————————————————————————————————	Dominance Tes	st worksheet:		
Tree Stratum (Plot size:)	% Cover	Cover Status	Number of Domi	nant Species		
1				That are OBL, FA	ACW, or FAC:	0	(A)
2. 3.				Total Number of	Dominant		
3 4.			0.0%	Species Across A	II Strata:	1	(B)
				Percent of dom	ninant Species		
Sapling/Shrub Stratum (Plot size	2:)		Total Cover	That Are OBL,			6 (A/B)
1.		0	0.0%	Prevalence Ind	ex worksheet:	·	
2.		0	0.0%		Cover of:	Multiply by:	
3.		0	0.0%	OBL species	0		0
4			0.0%	FACW species	0	x 2 =	0
5		0	0.0%	FAC species	0	x 3 =	0
		0 =	Total Cover	FACU species	100	x 4 =4	100
Herb Stratum (Plot size:)		¬	UPL species	0	x 5 =	0
1. Festuca pratensis				Column Total	s : 100	(A) 4	00 (B)
			10.0% FACU		e Index = B/A		
3. Taraxacum officinale 4.			5.0% FACU 0.0%				<u> </u>
5.			0.0%	Hydrophytic Ve	egetation Indic		
6.		0	0.0%		e Index is ≤3.0		
7.		0	0.0%			ons ¹ (Provide	
8.		0	0.0%	data in Re	marks or on a	separate shee	supporting :t)
9.		0	0.0%	Problemat	tic Hydrophytic	c Vegetation 1	(Explain)
10. 11.		0				· ·	•
				¹ Indicators of	f hydric soil an	nd wetland hyd	trology must
,		100=	Total Cover	be present, un			
Woody Vine Stratum (Plot size:)		7				
1							
2				Hydrophytic Vegetation		. 🙃	
			Total Cover	Present?	Yes O N	lo 💿	
% Bare Ground in Herb Stratum	n: <u>0</u> %	6 Cover of Biotic (Crust 0				
Remarks:							
The area does not meet the veget	ation criteria.						
1							

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	ox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 2/2	100%					Loam	
				-			-	
				-				
Typo: C-Con	contration D_Donlation		d Matrix, CS_Covere	d or Coate	d Sand Crair	ns 21 ocat	ion: PL=Pore Lining. M	
<u>, , , , , , , , , , , , , , , , , , , </u>	ndicators: (Applicab					is -Lucat	-	
Š		ie to ali ERR						oblematic Hydric Soils:3
J Histosol (/J Histic Epip	•		Sandy Redox (1 cm Muck (A9)	
Black Hist			Stripped Matrix		1)		2 cm Muck (A1	
=	Sulfide (A4)		Loamy Mucky I				Reduced Vertic	, ,
	_ayers (A5) (LRR C)		Loamy Gleyed		:)		Red Parent Mat	, ,
_	(A9) (LRR D)		Depleted Matri Redox Dark Su				Other (Explain	in Remarks)
Depleted I	Below Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		- /)			
Sandy Mu	ck Mineral (S1)		Redox depress				3 Indicators of hydromach	rophytic vegetation and
Sandy Gle	yed Matrix (S4)		Vernal Pools (F	-9)			wetland hydrolo	gy must be present.
estrictive La	yer (if present):							
	J. (1)							
Type:								
Type: Depth (incl	nes):						Hydric Soil Present	? Yes ○ No •
Depth (incl	nes): of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No O
Depth (incl demarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes ○ No •
Depth (incl Remarks: o indicators	of hydric soil.						Hydric Soil Present	? Yes O No •
Depth (incl Remarks: Dindicators Dindicators Ydrology Vetland Hyd	of hydric soil.	one required	check all that app	oly)			,	? Yes No •
Depth (included like the property of the prope	of hydric soil. / rology Indicators: cators (minimum of c	one required	: check all that app				_Secondary I	
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. / rology Indicators: cators (minimum of c	one required		11)			Secondary I	ndicators (2 or more required)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indicators Surface W	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12)	(B13)		Secondary I	ndicators (2 or more required) irks (B1) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation	of hydric soil. rology Indicators: cators (minimum of cator (A1) or Table (A2)	one required	Salt Crust (B	11) (B12) rtebrates (Secondary I Water Ma Sediment Drift Dep	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary Indi Surface W High Wate Saturation Water Mai	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3)		Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor	(C1)	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine)
Depth (included primary Indicators Water Market Ma	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine)	ine)	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (Ilfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Wate Saturation Water Mai Sediment Drift depo	of hydric soil. rology Indicators: cators (minimum of cater (A1) or Table (A2) (A3) (ks (B1) (Nonriverine) Deposits (B2) (Nonriver	ine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen Su Oxidized Rhi	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I	· (C1) along Living ron (C4)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Wate Saturation Water Man Sediment Drift depo Surface Scr	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction	(C1) along Living ron (C4) in Plowed So		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seaso Crayfish E Saturatio	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8)
Depth (incl demarks:	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) eks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine)	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) rks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) n Visible on Aerial Imagery (C9)
Depth (incl Remarks: Dindicators ydrology Vetland Hyd Primary India Surface W High Water Sediment Drift depo Surface So Inundation Water-Sta	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriversits (B3) (Noneriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imag	rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	11) (B12) rtebrates (Ilfide Odor zospheres Reduced II Reduction urface (C7	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Pemarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Mai Sediment Drift depo Surface Sc Inundation Water-Sta ield Observation	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) oil Cracks (B6) n Visible on Aerial Imagined Leaves (B9)	rine) ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ilfide Odor zospheres Reduced I Reduction urface (C7 in in Rema	c (C1) along Living ron (C4) in Plowed So)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
Depth (incl Remarks: Dindicators ydrology /etland Hyd Primary India Surface W High Water Sediment Drift depo Surface Sc Inundation Water-Sta ield Observa	of hydric soil. rology Indicators: cators (minimum of cater (A1) er Table (A2) (A3) ks (B1) (Nonriverine) Deposits (B2) (Nonriverine) sits (B3) (Noneriverine) sit (Cracks (B6) n Visible on Aerial Imagined Leaves (B9) ations: Present? Yes	ery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced If Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)		Secondary I Water Ma Sediment Drift Dep Drainage Dry Seasc Crayfish E Saturation Shallow A	ndicators (2 or more required) orks (B1) (Riverine) Deposits (B2) (Riverine) osits (B3) Riverine) Patterns (B10) on Water Table (C2) Burrows (C8) on Visible on Aerial Imagery (C9) Aquitard (D3)
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roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson/Utah Sampling Date: 11-May-16
Applicant/Owner: Utah Department of Transportation	State: UT Sampling Point: 74
nvestigator(s): Todd Sherman	Section, Township, Range: S 4 T 9S R 2E
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (concave, convex, none): concave Slope: 0.0 % /
Subregion (LRR): LRR D	Lat.: 438938 Long.: 4434388 Datum: NAD83
oil Map Unit Name: Ironton loam	NWI classification: PEM
e climatic/hydrologic conditions on the site typical for this	
Are Vegetation	ignificantly disturbed? Are "Normal Circumstances" present? Yes • No
Are Vegetation U , Soil U , or Hydrology U Summary of Findings - Attach site map sl	aturally problematic? (If needed, explain any answers in Remarks.) Dwing sampling point locations, transects, important features, et
Hydrophytic Vegetation Present? Yes No	
Hydric Soil Present? Yes ● No ○	Is the Sampled Area Within a Wotland? Yes No
Wetland Hydrology Present? Yes No	within a Wetland? Yes No
	aniam vvall mina
Remarks: Palustrine emergent wetland created by an a	esian weii pipe.
VEGETATION - Use scientific names of pla	S. Dominant Species?
- O (Diet size)	Absolute Rel.Strat. Indicator Dominance Test worksheet:
	% Cover Cover Status Number of Dominant Species
1 2.	0
3	Total Number of Dominant
4.	Species Across All Strata: 1 (B)
-	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0 0.0% Prevalence Index worksheet:
2.	0 0.0% Total % Cover of: Multiply by:
3.	0 0.0% OBL species 40 x 1 = 40
4.	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
5	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
	0 = Total Cover FACU species $0 \times 4 = 0$
Herb Stratum (Plot size:)	UPL species $0 \times 5 = 0$
1. Nasturtium officinale	35 V 87.5% OBL Column Totals: 40 (A) 40 (B)
2. Schoenoplectus pungens	5 <u>I</u> 12.5% OBL
34.	0 0.0% Prevalence Index = B/A = 1.000
5.	Hydrophytic Vegetation Indicators: 0 0.0% Pominance Test is > 50%
6.	
7.	Prevalence mack is 25.0
8.	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	0 0.0% Problematic Hydrophytic Vegetation 1 (Explain)
10.	0 0.0%
11.	0 0.0%
	40 = Total Cover
	.,,
1	0 0.0%
2.	0 0.0% Hydrophytic Vegetation
	= Total Cover

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Description:	latrix			ox Featu			absence o				
Depth M (inches) Color (me		C	olor (moist)	<u>%</u>	Tvpe ¹	Loc2	Te	exture		Re	emarks
0-20 10YR	3/1 100	1%					Loam		-		
				-							
									_		
				-			-				
				-							
1 Type: C=Concentration. D=I						s ² Locat	ition: PL=Po	ore Lining. M=	Matrix		
Hydric Soil Indicators: (A	Applicable to	all LRRs, u	_				Indica	itors for Pro	blemati	c Hydric S	Soils: ³
Histosol (A1)			」Sandy Redox (1 (cm Muck (A9)	(LRR C)		
Histic Epipedon (A2) Black Histic (A3)							_ 2 (cm Muck (A10) (LRR B)	
Hydrogen Sulfide (A4)			Loamy Mucky				Re	educed Vertic	(F18)		
Stratified Layers (A5) (LR	P C)		Loamy Gleyed		2)		Re	ed Parent Mate	erial (TF2	2)	
1 cm Muck (A9) (LRR D)	0)	Ĺ	Depleted Matri				Ot	her (Explain i	n Remarl	(s)	
Depleted Below Dark Sur	face (A11)	Ĺ	J Redox Dark Su								
Thick Dark Surface (A12)	` ,		Depleted Dark		- 7)						
Sandy Muck Mineral (S1)			Redox depress				3 India	ators of hydro	nhytic v	egetation a	and
Sandy Gleyed Matrix (S4)				- 9)			wet	tland hydrolog	y must b	e present.	
Restrictive Layer (if preser											
• • •	111.):										
Type:											\bigcirc
Donth (inches).							Hydric S	Soil Present?	'Ye	s 🔍 🗈 N	lo 🔾
Depth (inches):							Hydric S	Soil Present?	Ye	s • N	lo ⁽⁾
Depth (inches):Remarks:							Hydric S	Soil Present?	Ye	s • N	lo 🔾
	de odor when	n excavated	· · · · · · · · · · · · · · · · · · ·				Hydric S	Soil Present?	' Ye	es • M	lo ∪
Remarks:	de odor when	n excavated	1.				Hydric S	Soil Present?	' Ye	es © M	lo U
Remarks:	de odor when	n excavated	1 .				Hydric S	Soil Present?	' Ye	is © M	lo O
Remarks: Soils emit a hydrogen sulfid	de odor when	n excavated	1.				Hydric S	Soil Present?	' Ye	<u> </u>	lo O
Remarks: Soils emit a hydrogen sulfid	de odor when	ı excavatec	1 .				Hydric S	Soil Present?	Y Ye	s •	lo O
Remarks:		n excavatec	t.				Hydric S	Soil Present?	Y Ye	s • N	Jo ()
Remarks: Soils emit a hydrogen sulfid Hydrology	tors:			oly)							ore required)
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Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim	tors:		eck all that app	11)				Secondary Ir	ndicator:	s (2 or me Riverine)	ore required)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1)	tors:		eck all that app	11) (B12)	(B13)			Secondary Ir	ndicator: ks (B1) (Deposits	s (2 or m Riverine) (B2) (Rive	ore required)
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Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B6) Field Observations: Surface Water Present? Water Table Present?	verine) (Nonriverine) rial Imagery (B'9) Yes Yes	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve V Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)	bils (C6)	3)	Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ad	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or ma Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In O3)	ore required)_ rine)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B6) Field Observations: Surface Water Present?	verine) (Nonriverine) rial Imagery (B'9) Yes Yes	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Infide Odor zospheres (Reduced Infide Odor zospheres (C7) in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks)	bils (C6)	3)	Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ac	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or me Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In C3)	ore required) rine) nagery (C9)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present?	verine) (Nonriverine) viriverine) rial Imagery (B') Yes Yes Yes Yes	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve WHydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks) 2 0 0	wetla	3) [Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ac	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or me Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In C3)	ore required) rine) nagery (C9)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	verine) (Nonriverine) viriverine) rial Imagery (B') Yes Yes Yes Yes	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve WHydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks) 2 0 0	wetla	3) [Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ac	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or me Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In C3)	ore required) rine) nagery (C9)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B6) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe)	verine) (Nonriverine) viriverine) rial Imagery (B') Yes Yes Yes Yes	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve WHydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Iffide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks) 2 0 0	wetla	3) [Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ac	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or me Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In C3)	ore required) rine) nagery (C9)
Remarks: Soils emit a hydrogen sulfid Hydrology Wetland Hydrology Indica Primary Indicators (minim Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriv Sediment Deposits (B2) (Drift deposits (B3) (None Surface Soil Cracks (B6) Inundation Visible on Aer Water-Stained Leaves (B4) Field Observations: Surface Water Present? Water Table Present? Saturation Present? (includes capillary fringe) Describe Recorded Data (sa	verine) (Nonriverine) vriverine) (Nonriverine) (Nonriverin	equired; ch	eck all that app Salt Crust (B Biotic Crust Aquatic Inve V Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck S Other (Expla	11) (B12) rtebrates (Ifide Odor zospheres Reduced II Reduction urface (C7 in in Remaines):	c (C1) along Living ron (C4) in Plowed So) arks) 2 0 0	wetla	3) [Secondary Ir Water Mar Sediment I Drift Depo Drainage F Dry Season Crayfish Book Saturation Shallow Ac	idicator: ks (B1) (Deposits sits (B3) Patterns n Water urrows ((Visible o quitard (I al Test (I	s (2 or me Riverine) (B2) (Rive Riverine) (B10) Table (C2) C8) on Aerial In C3)	ore required) rine) nagery (C9)

	Yes No C	convex, none): flat Long.: 4434387 NWI classif	Slope:	75 0.0 % / 0.0 n: NAD83
Lat.: 438 this time of year? significantly di	Yes No	Long.: 4434387 NWI classif (If no, explain in	Slope:	
Lat.: 438	Yes No sturbed? Are "N	Long.: 4434387 NWI classif	Datur	
this time of year?	Yes No C	NWI classif	fication: Upland	n: NAD83
significantly di	sturbed? Are "N	(If no, explain in		•
significantly di	sturbed? Are "N	(If no, explain in		
_				
naturally probl		ormal Circumstances" p	resent? Yes •	No \bigcirc
		eded, explain any answe		
showing san	•	ations, transects		atures, etc.
			<u> </u>	
	-	Vaa O Na 📵		
)	within a Wetland	i? res UNO ©		
plants.	Dominant			
Absolute	-Species? ———— Rel.Strat. Indicator	Dominance Test work	sheet:	
% Cover	Cover Status	Number of Dominant Spe	ecies	
	0.0%			(A)
		Total Number of Domina	ınt	
				(B)
		Percent of dominant S	Snacias	
=	= Total Cover			% (A/B)
0	0.0%	Drovolongo Indov worl	kahaat.	
0	0.0%	-		0
	0.0%			0
0	0.0%			0
0 =	= Total Cover			320
			20	100
		,		120 (B)
		Prevalence Index	= B/A = <u>4.20</u>	0
0	0.0%			
0	0.0%	☐ Morphological Ad	laptations ' (Provide or on a separate shee	supporting et)
0	0.0%			
	0.0%		opyo rogotation	(=,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
	0.0%	1		
100 =	= Total Cover			
_				
_	0.0%			
	0.0%	Vogotation		
0 =	= Total Cover	Present? Yes	U No ●	
% Cover of Biotic	Crust 0			
	% Cover	Dominant Species? Rel.Strat. Indicator Cover Status	plants. Dominant Species? Rel.Strat. Cover Status	Dominant Species? Rel.Strat. Indicator Status

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth .	Matrix		Rec	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/3	100%					Loam	
				-				
Typo: C-Copo	ontration D_Donlotion		Matrix CS_Covere	d or Coate	d Sand Gra	inc 2l ocat	ion: PL=Pore Lining. M=Matrix	
· · · · · · · · · · · · · · · · · · ·	ndicators: (Applicab					ilis -Lucat	<u> </u>	
Histosol (A		ile to all LKKS	Sandy Redox (Indicators for Problemat	•
Histic Epipe	•		Stripped Matri				1 cm Muck (A9) (LRR C	
Black Histic					1\		2 cm Muck (A10) (LRR	В)
Hydrogen S			Loamy Mucky				Reduced Vertic (F18)	
	ayers (A5) (LRR C)		Loamy Gleyed		.)		Red Parent Material (TF	•
_	(A9) (LRR D)		Depleted Matr Redox Dark Su				Other (Explain in Rema	rks)
Depleted B	elow Dark Surface (A1	1)						
_	Surface (A12)		Depleted Dark		-7)			
Sandy Muc	k Mineral (S1)		Redox depress				³ Indicators of hydrophytic	
Sandy Gley	red Matrix (S4)		Vernal Pools (-9)			wetland hydrology must	be present.
estrictive La	yer (if present):							
Type:								
	es):						Hydric Soil Present? Y	es 🔾 No 💿
Remarks:								
ydrology	,							
etland Hydr	ology Indicators:							
Primary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicato	rs (2 or more required)
Surface Wa	nter (A1)		Salt Crust (B	11)			Water Marks (B1)	(Riverine)
High Water	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposit	s (B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3) Riverine)
Water Mark	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment [Deposits (B2) (Nonriver	rine)	Oxidized Rhi	zospheres	along Livin	g Roots (C3)	Dry Season Water	Table (C2)
Drift depos	its (B3) (Noneriverine)		Presence of	Reduced I	ron (C4)		Crayfish Burrows	(C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	Soils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	Visible on Aerial Imag	ery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard	(D3)
Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test	(D5)
ield Observa	tions:							
urface Water F		○ No ●	Depth (inc	hes):				
Vater Table Pre		○ No ●	•			_		
						Wetla	nd Hydrology Present?	Yes ○ No •
aturation Presi includes capilla		○ No •	Depth (inc	hes):		_		
Describe Reco	orded Data (stream	gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if a	available:	
emarks:								
	of wetland hydrolog	y.						
	of wetland hydrolog	y.						

Project/Site: I-15 Payson Main Street	Interchange EIS		City/County: Payson/Uta	ıh	Sampling	Date: 11-Apr-	17
Applicant/Owner: Utah Department o	f Transportation		-	State: UT	Sampli	ng Point:	76
Investigator(s): Todd Sherman			Section, Township, R	ange: S 5	T 9S I	R 2E	
Landform (hillslope, terrace, etc.):	: Valley bottom		Local relief (concave,	convex, none): CO	ncave	Slope:	
Subregion (LRR): LRR D		 Lat.: 40		Long.: -111.734		Datum:	
Soil Map Unit Name: McBeth silt loa		f== 4 -!= 4! = f ==	? Yes • No	<u> </u>	classification: P		
re climatic/hydrologic conditions or Are Vegetation, Soil	• •			(lain in Remarks.)		lo 🔾
	, or Hydrology			lormal Circumstan	•		I U
Are Vegetation □ , Soil □ Summary of Findings - A	or Hydrology,		•	eded, explain any			iras atc
Hydrophytic Vegetation Present?				ations, trans	- Cots, Impor	tunt reate	
Hydric Soil Present?		0	Is the Sampled I				
Wetland Hydrology Present?			within a Wetlan	_{d?} Yes 💿 No	, O		
		,					
Remarks: Emergent wetland in	a a pasture.						
VEGETATION - Use scien	ntific names	of plants	Dominant		-		
VEGETATION - 03e 3ciel	Titilic Hairies	<u> </u>	—Species? ———	1			
Tree Stratum (Plot size:)	Absolute % Cover					
1.	<i>′</i>	0	0.0%	Number of Domina That are OBL, FAC		3	(A)
2.			0.0%	That are obe, TAC	, or 1 Ac.		(1)
3.			0.0%	Total Number of E Species Across All		2	(B)
4.		0	0.0%	Species Across Air	Strata.	3	(b)
Sapling/Shrub Stratum (Plot size	:		= Total Cover	Percent of domi That Are OBL, F		100.0%	(A/B)
1.		0	0.0%	Prevalence Inde	x worksheet:		
2.		0	0.0%	Total % C		ıltiply by:	
3.		0	0.0%	OBL species		1 = 20	
4.		0	0.0%	FACW species	60 x	2 = 120	
5			0.0%	FAC species	x	3 = 0	
		0	= Total Cover	FACU species	x	4 = 80	
Herb Stratum (Plot size:)		_	UPL species	x	0	
1. Juncus balticus			✓ 30.0% FACW	Column Totals			(B)
2. Carex praegracilis			✓ 30.0% FACW				_ (5)
3. Carex nebrascensis			✓ 20.0% OBL	Prevalence	Index = B/A =	_2.200_	
4. Taraxacum officinale			10.0% FACU	Hydrophytic Veg	-	rs:	
5. Trifolium repens6.			10.0% FACU	✓ Dominance	_		
7.			0.0%		Index is ≤3.0 ¹		
8.			0.0%		ical Adaptations narks or on a sep		pporting
9.			0.0%				
10.		0	0.0%	Problemation	c Hydrophytic Ve	egetation (E	xplain)
11.		0	0.0%				
		100	= Total Cover		hydric soil and w		logy must
Woody Vine Stratum (Plot size:)			be present, unit	ess disturbed or	problematic.	
1.			0.0%				
2.		0	0.0%	Hydrophytic			
		0	= Total Cover	Vegetation Present?	Yes No		
% Bare Ground in Herb Stratun	1 : 0	% Cover of Bioti	ic Crust ∩				
Remarks:			<u> </u>				
The area meets the vegetation cri	teria.						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the depth ne	eded to document	the indic	ator or co	nfirm the	absence of indicators.)
Depth Matrix		ox Featu			
(inches) Color (moist) %	Color (moist)	<u>%</u>	Tvpe 1	Loc ²	Texture Remarks
0-7 10YR 3/2 100%		-			Silt Loam
7-20 10YR 2/1 100%					Silt Loam
		-			
		-			
1 Type: C=Concentration. D=Depletion. RM=Reduce	ed Matrix, CS=Covered	d or Coate	d Sand Gra	ins ² Loca	tion: PL=Pore Lining. M=Matrix
Hydric Soil Indicators: (Applicable to all LRF					Indicators for Problematic Hydric Soils: ³
Histosol (A1)	Sandy Redox (S				1 cm Muck (A9) (LRR C)
Histic Epipedon (A2)	Stripped Matrix				2 cm Muck (A10) (LRR B)
☐ Black Histic (A3) ✓ Hydrogen Sulfide (A4)	Loamy Mucky N				Reduced Vertic (F18)
Stratified Layers (A5) (LRR C)	Loamy Gleyed I)		Red Parent Material (TF2)
1 cm Muck (A9) (LRR D)	Depleted Matrix				Other (Explain in Remarks)
Depleted Below Dark Surface (A11)	Redox Dark Sui				
Thick Dark Surface (A12)	Depleted Dark		7)		
Sandy Muck Mineral (S1)	Redox depressi				³ Indicators of hydrophytic vegetation and
Sandy Gleyed Matrix (S4)	Vernal Pools (F	9)			wetland hydrology must be present.
Restrictive Layer (if present):					
Type:					
Depth (inches):					Hydric Soil Present? Yes ● No ○
Remarks:					
 Soils emit a hydrogen sulfide odor when excav	ated.				
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one required	· check all that ann	lv)			Secondary Indicators (2 or more required)
Surface Water (A1)	Salt Crust (B				Water Marks (B1) (Riverine)
✓ High Water Table (A2)	Biotic Crust (B12)			Sediment Deposits (B2) (Riverine)
✓ Saturation (A3)	Aquatic Inver	tebrates ((B13)		Drift Deposits (B3) Riverine)
☐ Water Marks (B1) (Nonriverine)	✓ Hydrogen Sul	lfide Odor	(C1)		☐ Drainage Patterns (B10)
Sediment Deposits (B2) (Nonriverine)	Oxidized Rhiz	zospheres	along Livin	g Roots (C3	Dry Season Water Table (C2)
Drift deposits (B3) (Noneriverine)	Presence of F	Reduced I	ron (C4)		Crayfish Burrows (C8)
Surface Soil Cracks (B6)	Recent Iron F	Reduction	in Plowed S	Soils (C6)	Saturation Visible on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery (B7)	Thin Muck Su	urface (C7)		Shallow Aquitard (D3)
Water-Stained Leaves (B9)	Other (Explai	in in Rema	arks)		FAC-neutral Test (D5)
Field Observations:					
Surface Water Present? Yes O No •	Depth (inch	nes):		_	
Water Table Present? Yes O No •	Depth (inch	nes):		_	
Saturation Present? (includes expillent frings) Yes No No	Depth (inch	nes).		Wetla	and Hydrology Present? Yes 💿 No 🔾
(includes capillary fringe)			lous Inon-	ctions) if	available
Describe Recorded Data (stream gauge, mon	tor weir, aeriai phoi	ius, prev	ious irispe	CHO(15), IT	avanavie
Remarks:					
Soils emit a hydrogen sulfide odor when exca	vated and were sat	turated in	the unne	r profile w	vith a shallow water table
SSS STILL & Tryanogori Samue Guoi When exca	.a.ou, and word 3dt	. a. a.cu II	c appe	. prome w	a shallow water table.

Sampling Date: 11-Apr-17
Sampling Point: 77
T 9S R 2E
Slope:0.0 % /_ 0.0
Datum: NAD83
assification: Upland
n in Remarks.)
s" present? Yes No
swers in Remarks.)
cts, important features, etc.
· ·
orksheet:
Species
, or FAC: (A)
ninant
rata:4 (B)
nt Species
W, or FAC: <u>50.0%</u> (A/B)
worksheet:
er of: Multiply by:
0 x 1 = 0
x 2 =40
25 x 3 = 75
55 x 4 =220
dex = B/A = <u>3.350</u>
ation Indicators:
est is > 50%
dex is ≤3.0 ¹
I Adaptations ¹ (Provide supporting rks or on a separate sheet)
lydrophytic Vegetation ¹ (Explain)
lydrophytic vegetation (Explain)
dric soil and wetland hydrology must disturbed or problematic.
distal bed of problematic.
es O No 💿

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/2	100%					Clay Loam	
 Type: C=Cond	entration D=Depletion	n RM=Reduced	I Matrix CS=Covere	d or Coate	d Sand Grai	ns 2l ocat	tion: PL=Pore Lining. M=Matrix	
J.	ndicators: (Applicat					ns Locat	<u> </u>	- 11-4-1- 6-11-3
Histosol (A		ole to all ERRS	Sandy Redox				Indicators for Problemat	•
Histic Epip			Stripped Matri				1 cm Muck (A9) (LRR C)	
Black Histi			Loamy Mucky		1)		2 cm Muck (A10) (LRR E	3)
Hydrogen	Sulfide (A4)		Loamy Gleyed				Reduced Vertic (F18)	2)
Stratified L	ayers (A5) (LRR C)		Depleted Matr		.,		Red Parent Material (TF	
1 cm Muck	(A9) (LRR D)		Redox Dark Su				Other (Explain in Remar	KS)
Depleted E	Below Dark Surface (A1	1)	Depleted Dark					
Thick Dark	Surface (A12)		Redox depress		',			
] Sandy Muc	k Mineral (S1)		Vernal Pools (³ Indicators of hydrophytic v	
Sandy Gley	yed Matrix (S4)		vernar roots (7)			wetland hydrology must	be present.
strictive La	yer (if present):							
Type:								
Depth (inch	ies):		_				Hydric Soil Present? You	es O No 🗨
emarks:								
ydrology								
etland Hydr	ology Indicators:							
rimary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicator	s (2 or more required)
Surface Wa	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
] High Wate	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment I	Deposits (B2) (Nonrive	rine)	Oxidized Rh	zospheres	along Living	Roots (C3	B) Dry Season Water	Table (C2)
Drift depos	sits (B3) (Noneriverine))	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	oils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	n Visible on Aerial Imag	jery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
☐ Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test (D5)
eld Observa	ntions:							
ırface Water I	.,	○ No ●	Depth (inc	hes):				
ater Table Pr		○ No ●	•					
						Wetla	and Hydrology Present?	res ○ No •
aturation Pres		O No 💿	Depth (inc	hes):		-		
ncludes capilla		gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if	available:	
-	orded Data (stream	quuqu/ IIIoiiit						
	orded Data (stream	quaqo _/ o						
emarks:								
escribe Reco	orded Data (stream							
escribe Reco								

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Pag	yson/utan	Sampling Date: 11	-Apr-17
pplicant/Owner: Utah Department of Transportation	-	State: UT	Sampling Point:	78
nvestigator(s): Todd Sherman	Section, Towr	nship, Range: S 5	T_9S R_2E	
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (co	oncave, convex, none): CC	ncave Slope:	2.0 % / 1
ubregion (LRR): LRR D	Lat.: 40.06392	Long.: -111.73	400 Dat u	ım: NAD83
pil Map Unit Name: McBeth silt loam			classification: PEM	
e climatic/hydrologic conditions on the site typical for the	nis time of year? Yes	3 0	lain in Remarks.)	
re Vegetation , Soil , or Hydrology	significantly disturbed?	Are "Normal Circumstar	nces" present? Yes	No \bigcirc
re Vegetation , Soil , or Hydrology	naturally problematic?	(If needed, explain any	•	
Summary of Findings - Attach site map			·	atures etc
Hydrophytic Vegetation Present? Yes No			- Posto, important ro	
Hydric Soil Present? Yes • No	Is the Sa	ımpled Area Wetland? Yes ● No		
Wetland Hydrology Present? Yes No	within a	Wetland? Yes • No	\circ	
Remarks: Emergent wetland in a a pasture.				
Emergent wettand in a a pasture.				
VEGETATION - Use scientific names of plants				
	Species? — Absolute Rel.Strat. Ir	ndicator Dominance Tes	t worksheet:	
Tree Stratum (Plot size:)		Number of Domir	ant Species	
1		That are OBL, FA	CW, or FAC:	<u>2</u> (A)
2		Total Number of	Dominant	
3 4.	0	Species Across Al	Strata: 2	<u>2</u> (B)
<u> </u>	0	Percent of dom	inant Species	
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, F		.0% (A/B)
1.	0 0.0%	Prevalence Inde	ex worksheet:	
2.	0 0.0%	Total % C		
3.	0 0.0%	OBL species	70 x 1 =	- 70
4.	0 0.0%	FACW species	x 2 =	0
5.	0	FAC species	5 x 3 =	15
	0 = Total Cover	FACU species	0 x 4 =	0
Herb Stratum (Plot size:)		UPL species	x 5 =	0
1. Eleocharis palustris		OBL Column Totals	s:75 (A)	85 (B)
2. Schoenoplectus americanus		DBL		
Nasturtium officinale Rumex crispus		100	Index = B/A = <u>1.1</u>	33
5.	0 0.0%	Hydrophytic veg	getation Indicators:	
6.	0 0.0%		e Test is > 50% e Index is ≤3.0 ¹	
7.	0 0.0%			
8.	0 0.0%		ical Adaptations ¹ (Providenarks or on a separate she	
9.	0 0.0%		c Hydrophytic Vegetation	
10.	00.0%		o riyar opriyilo regetation	(Explain)
11.	0			
	75 = Total Cover		hydric soil and wetland hy ess disturbed or problema	
Woodv Vine Stratum (Plot size:)	_	. ,	·	
1	0			
2	00.0%	Hydrophytic Vegetation		
	0 = Total Cover	Present?	Yes ● No ○	
% Bare Ground in Herb Stratum: 25 9	6 Cover of Biotic Crust 0			

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Description: (Describe to the	depth needed to document	the indicator or	confirm the	absence of indicators.)	
Depth Matrix		dox Features	1	-	
	% Color (moist)	% Type	Loc ²	Texture	Remarks
0-7 10YR 3/2 1	00%			Silt Loam	
7-20 10YR 2/1 1	00%			Silt Loam	
				-	
1 Type: C=Concentration. D=Depletion. R	M=Reduced Matrix, CS=Covere	ed or Coated Sand (Grains ² Loca	tion: PL=Pore Lining. M=Matrix	X
Hydric Soil Indicators: (Applicable t	o all LRRs, unless otherwis	se noted.)		Indicators for Problema	atic Hydric Soils: ³
Histosol (A1)	Sandy Redox			1 cm Muck (A9) (LRR	C)
Histic Epipedon (A2)	Stripped Matri			2 cm Muck (A10) (LRF	R B)
☐ Black Histic (A3) ✓ Hydrogen Sulfide (A4)	Loamy Mucky			Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C)	Loamy Gleyed			Red Parent Material (1	ΓF2)
1 cm Muck (A9) (LRR D)	Depleted Matr	` ,		Other (Explain in Rem	arks)
Depleted Below Dark Surface (A11)	Redox Dark Su				
Thick Dark Surface (A12)	☐ Depleted Dark				
Sandy Muck Mineral (S1)	Redox depress Vernal Pools (3 Indicators of hydrophytic	c vegetation and
Sandy Gleyed Matrix (S4)	vernai Poois (F9)		wetland hydrology mus	st be present.
Restrictive Layer (if present):					
Type:					
Depth (inches):				Hydric Soil Present?	Yes No
Remarks:					
Soils emit a hydrogen sulfide odor wh	en excavated.				
Hydrology					
Wetland Hydrology Indicators:					
Primary Indicators (minimum of one	required: check all that an	nlv)		Secondary Indicat	ors (2 or more required)
Surface Water (A1)	Salt Crust (E			Water Marks (B1	
✓ High Water Table (A2)	Biotic Crust	(B12)		<u> </u>	its (B2) (Riverine)
Saturation (A3)		ertebrates (B13)		Drift Deposits (E	
Water Marks (B1) (Nonriverine)	✓ Hydrogen Si	ulfide Odor (C1)		Drainage Patterr	· ·
Sediment Deposits (B2) (Nonriverine)	Oxidized Rh	izospheres along Li	ving Roots (C3	B) Dry Season Water	er Table (C2)
Drift deposits (B3) (Noneriverine)	Presence of	Reduced Iron (C4)		Crayfish Burrows	s (C8)
Surface Soil Cracks (B6)	Recent Iron	Reduction in Plowe	ed Soils (C6)	Saturation Visibl	e on Aerial Imagery (C9)
Inundation Visible on Aerial Imagery	(B7) Thin Muck S	Surface (C7)		Shallow Aquitaro	d (D3)
Water-Stained Leaves (B9)	Other (Expla	ain in Remarks)		▼ FAC-neutral Test	t (D5)
Field Observations:	_				
Surface Water Present? Yes	No Depth (inc	thes):			
Water Table Present? Yes	No Depth (inc	:hes):			
Saturation Present? Yes		,	Wetla	and Hydrology Present?	Yes ● No ○
(includes capillary fiffige)	· · ·				
Describe Recorded Data (stream gau	ge, monitor well, aerial pho	otos, previous ins	pections), if	available:	
Remarks:					
Soils emit a hydrogen sulfide odor wl	nen excavated, and were sa	aturated in the up	per profile w	vith a shallow water table.	

		S		ity/ county.	Payson/Utal	[]	Sampi	ing Date: <u>11-</u>	Npr-17
Applicant/Owner: Utah Department of	f Transportation	n				State: UT	San	npling Point:	79
Investigator(s): Todd Sherman				Section, To	wnship, Ra	ange: S 5	T 9S	R 2E	
Landform (hillslope, terrace, etc.):	Valley botto	m		Local relief	(concave, c	convex, none): flat	•	Slope:	0.0 % / 0.
Subregion (LRR): LRR D			Lat .: 40	.06392		Long.: -111.7340	00	 Datur	n: NAD83
oil Map Unit Name: McBeth silt loan	n					NWI c	lassification	: Upland	
e climatic/hydrologic conditions on		cal for this tir	ne of year	? Yes	. ● No C	(If no, expla	in in Remar	ks.)	
Are Vegetation, Soil	, or Hydrold	ogy 🗌 sig	nificantly	disturbed?	Are "N	ormal Circumstanc	es" present	? Yes ⊙	No \bigcirc
Are Vegetation , Soil	, or Hydrold		turally pro	blematic?		eded, explain any a	•		
Summary of Findings - At									ntures, etc.
Hydrophytic Vegetation Present?	Yes O	No •		le the	Sampled A	uron.	-		
Hydric Soil Present?	Yes \bigcirc	No 💿			•	Vaa O Na	•		
Wetland Hydrology Present?	$_{Yes}$ \bigcirc	No 💿		within	a Wetland	i? Tes ○ NO			
Remarks: Upland area adjacent	to SP-78								
opiana area aajacem	10 01 70.								
VEGETATION - Use scien	ntific name	es of plants		Dominant					
			Absolute			Dominance Test	worksheet:		
Tree Stratum (Plot size:)		% Cover		Status	Number of Domina			
1				0.0%		That are OBL, FAC	V, or FAC:	0	(A)
2				0.0%		Total Number of Do	minant		
3 4.				0.0%		Species Across All S	Strata:	3	(B)
1				0.0%		Percent of domin	ant Species		
_Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er	That Are OBL, FA			6 (A/B)
1.			0	0.0%		Prevalence Index	worksheet		
2.			0	0.0%		Total % Co		Multiply by:	
3.			0	0.0%		OBL species	0		0
4.			0	0.0%		FACW species	10	x 2 =	20
5.			0	0.0%		FAC species	0	x 3 =	0
			0	= Total Cove	er	FACU species	90	x 4 =3	360
Herb Stratum (Plot size:)					UPL species	0	x 5 =	0
1. Festuca pratensis			40	40.0%	FACU	Column Totals:	100	(A) 3	880 (B)
			30	30.0%	FACU				
Taraxacum officinale Phalaris arundinacea			<u>20</u> 10	20.0%	FACU FACW	Prevalence I			<u>U</u>
5.			0	0.0%	TACW	Hydrophytic Vege			
6.			0	0.0%		Dominance Prevalence I			
7.			0	0.0%					
8.			0	0.0%		☐ Morphologic	al Adaptatio arks or on a	ons ¹ (Provide separate shee	supporting et)
9.			0	0.0%		Problematic	Hydrophyti	c Vegetation ¹	(Explain)
10. 11.			0	0.0%			,	- 9	(=
			0	0.0%		1			
			100	= Total Cove	er	1 Indicators of h			
Woody Vine Stratum (Plot size:		_)							
1			0	0.0%					
2.			0	0.0%		Hydrophytic Vegetation			
							. ()	. / - \	
			0	= Total Cove	er	Present?	Yes 🔾 N	lo 💿	
% Bare Ground in Herb Stratum	:: <u>0</u>	% Cov	er of Bioti		er 	Present?	Yes ∪ N 	lo	
	. 0	% Cov			er 	Present?	Yes ∪ N	lo	

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth Matr	ix	Red	lox Featu				
(inches) Color (moist)_%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20 10YR 3/2	2 100%					Clay Loam	
Type: C=Concentration. D=Dep	etion. RM=Reduce	d Matrix, CS=Covere	d or Coate	d Sand Grain	s ² Locat	ion: PL=Pore Lining. M=Matri:	(
lydric Soil Indicators: (Appl	icable to all LRR	s, unless otherwis	e noted.)			Indicators for Problems	atic Hydric Soils: ³
Histosol (A1)		Sandy Redox (1 cm Muck (A9) (LRR	C)
Histic Epipedon (A2)		Stripped Matrix				2 cm Muck (A10) (LRF	R B)
☐ Black Histic (A3) ☐ Hydrogen Sulfide (A4)		Loamy Mucky I				Reduced Vertic (F18)	
Stratified Layers (A5) (LRR C		Loamy Gleyed)		Red Parent Material (ΓF2)
1 cm Muck (A9) (LRR D)		Depleted Matri	` ,			Other (Explain in Rem	arks)
Depleted Below Dark Surface	(Δ11)	Redox Dark Su					
Thick Dark Surface (A12)	(ATT)	Depleted Dark		7)			
Sandy Muck Mineral (S1)		Redox depress				³ Indicators of hydrophytic	vegetation and
Sandy Gleyed Matrix (S4)		Vernal Pools (F	F9)			wetland hydrology mus	st be present.
estrictive Layer (if present):							
Type:							
,							
Depth (inches):						Hydric Soil Present?	Yes O No 💿
Depth (inches):Remarks: o indicators of hydric soil.						Hydric Soil Present?	Yes ○ No •
emarks:						Hydric Soil Present?	Yes ○ No •
emarks: indicators of hydric soil.						Hydric Soil Present?	Yes ○ No •
demarks: o indicators of hydric soil. ydrology	s:					Hydric Soil Present?	Yes O No O
emarks: indicators of hydric soil. ydrology etland Hydrology Indicators		; check all that app	oly)				Yes ○ No ● ors (2 or more required)
emarks: indicators of hydric soil. ydrology fetland Hydrology Indicators		; check all that app					ors (2 or more required)
emarks: o indicators of hydric soil. ydrology /etland Hydrology Indicators			311)			Secondary Indicat Water Marks (B1	ors (2 or more required)
emarks: p indicators of hydric soil. ydrology retland Hydrology Indicators rimary Indicators (minimum Surface Water (A1)		Salt Crust (B	(B12)	(B13)		Secondary Indicat Water Marks (B1	ors (2 or more required)) (Riverine) its (B2) (Riverine)
ydrology Vetland Hydrology Indicators Irimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin	of one required	Salt Crust (B Biotic Crust (Aquatic Inve	11) (B12) rtebrates (ulfide Odor	(C1)		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E	ors (2 or more required)) (Riverine) its (B2) (Riverine) 33) Riverine)
ydrology Yetland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor	of one required be) riverine)	Salt Crust (B Biotic Crust (Aquatic Inve Hydrogen St Oxidized Rhi	(B12) rtebrates (ulfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) ns (B10)
ydrology Yetland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor	of one required be) riverine)	Salt Crust (B Biotic Crust (Aquatic Inve	(B12) rtebrates (ulfide Odor zospheres	(C1) along Living	Roots (C3)	Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8)
emarks: prindicators of hydric soil. ydrology /etland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nonerive Drift deposits (B3) (Nonerive Surface Soil Cracks (B6)	of one required be) riverine) rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Ilfide Odor Izospheres Reduced II	(C1) along Living ron (C4) in Plowed Sc		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visible	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8) e on Aerial Imagery (C9)
emarks: pindicators of hydric soil. ydrology fetland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I	of one required be) riverine) rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Intebrates (Intebrates (Interpretation of the control o	along Living ron (C4) in Plowed Sc		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitaro	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) is (C8) e on Aerial Imagery (C9) id (D3)
emarks: indicators of hydric soil. ydrology etland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor Drift deposits (B3) (Nonerive Surface Soil Cracks (B6)	of one required be) riverine) rine)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron	(B12) Intebrates (Intebrates (Interpretation of the control o	along Living ron (C4) in Plowed Sc		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visible	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) if (D3)
emarks: indicators of hydric soil. ydrology retland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Non Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) reld Observations:	of one required be) riverine) rine) magery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Interpreted (B12) Interp	along Living ron (C4) in Plowed Sc		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitaro	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) if (D3)
emarks: prindicators of hydric soil. ydrology fetland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nonerive Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) feld Observations:	of one required lee) rriverine) rine) magery (B7) res No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St	(B12) Interpreted (B12) Interp	along Living ron (C4) in Plowed Sc		Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitaro	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) if (D3)
ydrology Vetland Hydrology Indicators Trimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations:	of one required be) riverine) rine) magery (B7)	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) Intebrates (Interpretation of the content of	(C1) along Living ron (C4) in Plowed Sc) arks)	oils (C6)	Secondary Indicat Water Marks (B1 Sediment Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitard FAC-neutral Tes	ors (2 or more required)) (Riverine) its (B2) (Riverine) its (B10) its (B10) its (B10) its (C8) its (C8) its on Aerial Imagery (C9) its (D3) its (D5)
ydrology Vetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Non Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations: urface Water Present? Vater Table Present?	of one required lee) rriverine) rine) magery (B7) res No No	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen St Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	(B12) crtebrates (lifide Odor czospheres Reduced II Reduction urface (C7) in in Rema	(C1) along Living ron (C4) in Plowed Sc) arks)	oils (C6)	Secondary Indicat Water Marks (B1 Sediment Depos Drift Deposits (E Drainage Pattern Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitaro	ors (2 or more required)) (Riverine) its (B2) (Riverine) i3) Riverine) is (B10) er Table (C2) s (C8) e on Aerial Imagery (C9) if (D3)
ydrology /etland Hydrology Indicators rimary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations: urface Water Present? //ater Table Present? paturation Present? reludes capillary fringe)	of one required se) riverine) magery (B7) res	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) in tebrates (in tebr	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Indicat Water Marks (B1 Sediment Deposits (E Drainage Patterr Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitard FAC-neutral Tes	ors (2 or more required)) (Riverine) its (B2) (Riverine) its (B10) its (B10) its (B10) its (C8) its (C8) its on Aerial Imagery (C9) its (D3) its (D5)
ydrology Vetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Sediment Deposits (B2) (Nor Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations: urface Water Present? Vater Table Present? aturation Present? roludes capillary fringe)	of one required se) riverine) magery (B7) res	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) in tebrates (in tebr	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Indicat Water Marks (B1 Sediment Deposits (E Drainage Patterr Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitard FAC-neutral Tes	ors (2 or more required)) (Riverine) its (B2) (Riverine) its (B10) its (B10) its (B10) its (C8) its (C8) its (C8) its (D3) its (D3) its (D5)
ydrology Vetland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverir Sediment Deposits (B2) (Nor Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations: urface Water Present?	of one required se) riverine) magery (B7) res	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) in tebrates (in tebr	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Indicat Water Marks (B1 Sediment Deposits (E Drainage Patterr Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitard FAC-neutral Tes	ors (2 or more required)) (Riverine) its (B2) (Riverine) its (B10) its (B10) its (B10) its (C8) its (C8) its on Aerial Imagery (C9) its (D3) its (D5)
ydrology /etland Hydrology Indicators Primary Indicators (minimum Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) (Nonriverin Drift deposits (B3) (Nonerive Surface Soil Cracks (B6) Inundation Visible on Aerial I Water-Stained Leaves (B9) ield Observations: urface Water Present? //ater Table Present? //acescribe Recorded Data (streen)	of one required se) priverine) magery (B7) res No es No am gauge, monit	Salt Crust (B Biotic Crust (B Aquatic Inve Hydrogen Su Oxidized Rhi Presence of Recent Iron Thin Muck St Other (Expla	in (B12) in tebrates (in tebr	(C1) along Living ron (C4) in Plowed Sc) arks)	vils (C6) Wetla	Secondary Indicat Water Marks (B1 Sediment Deposits (E Drainage Patterr Dry Season Wat Crayfish Burrows Saturation Visibl Shallow Aquitard FAC-neutral Tes	ors (2 or more required)) (Riverine) its (B2) (Riverine) its (B10) its (B10) its (B10) its (C8) its (C8) its on Aerial Imagery (C9) its (D3) its (D5)

roject/Site: I-15 Payson Main Street Interchange EIS	City/County: Payson	n/Utah Sampling Date: 11-Apr-17
pplicant/Owner: Utah Department of Transportation	-	State: UT Sampling Point: 80
nvestigator(s): Todd Sherman	Section, Townshi	p, Range: S 5
Landform (hillslope, terrace, etc.): Valley bottom	Local relief (conca	ave, convex, none): flat Slope:1.0 % /_
ubregion (LRR): LRR D	Lat.: 40.06093	Long.: -111.735000 Datum: NAD83
pil Map Unit Name: McBeth silt loam		NWI classification: PEM
e climatic/hydrologic conditions on the site typical for the	his time of year? Yes	
re Vegetation . , Soil . , or Hydrology .	-	re "Normal Circumstances" present? Yes No
re Vegetation		f needed, explain any answers in Remarks.)
	`	locations, transects, important features, etc
Hydrophytic Vegetation Present? Yes No		·
Hydric Soil Present? Yes No	Is the Sampl	Voc 📵 No 🔾
Wetland Hydrology Present? Yes No	within a Wet	tland? Yes No C
Remarks: Emergent wetland in a a pasture.		
Emergent wetland in a a pasture.		
VEGETATION - Use scientific names of pl	ants. Dominant	
	Species? ————————————————————————————————————	ator Dominance Test worksheet:
Tree Stratum (Plot size:)	% Cover Cover Statu	Number of Dominant Species
1		That are OBL, FACW, or FAC:3(A)
2		Total Number of Dominant
3 4.	0	Species Across All Strata:3(B)
T	0 0.0%	Percent of dominant Species
Sapling/Shrub Stratum (Plot size:)	0 = Total Cover	That Are OBL, FACW, or FAC: 100.0% (A/B)
1.	0 0.0%	Prevalence Index worksheet:
2.	0 0.0%	Total % Cover of: Multiply by:
3.	0 0.0%	OBL species 25 x 1 = 25
4.	0 0.0%	FACW species65
5.	00.0%	FAC species 0 x 3 = 0
	0 = Total Cover	FACU species $10 \times 4 = 40$
Herb Stratum (Plot size:)		UPL species $0 \times 5 = 0$
1. Juncus balticus	30_ <u>\30.0%</u> _FACW	
2. Carex nebrascensis		
Carex praegracilis Phalaris arundinacea	25	,
5. Trifolium repens	10 10.0% FACU	Hydrophytic vegetation mulcators.
6.	0 0.0%	✓ Dominance Test is > 50% ✓ Prevalence Index is ≤ 3.0 ¹
7.	0 0.0%	
8.	0 0.0%	Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)
9.	0 0.0%	Problematic Hydrophytic Vegetation ¹ (Explain)
10. 11.	0	
	0 0.0%	
	100 = Total Cover	Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Woodv Vine Stratum (Plot size:)		
1	0	
2	0	Hydrophytic Vegetation
	0 = Total Cover	Present? Yes No
% Bare Ground in Herb Stratum: 0	% Cover of Biotic Crust 0	_

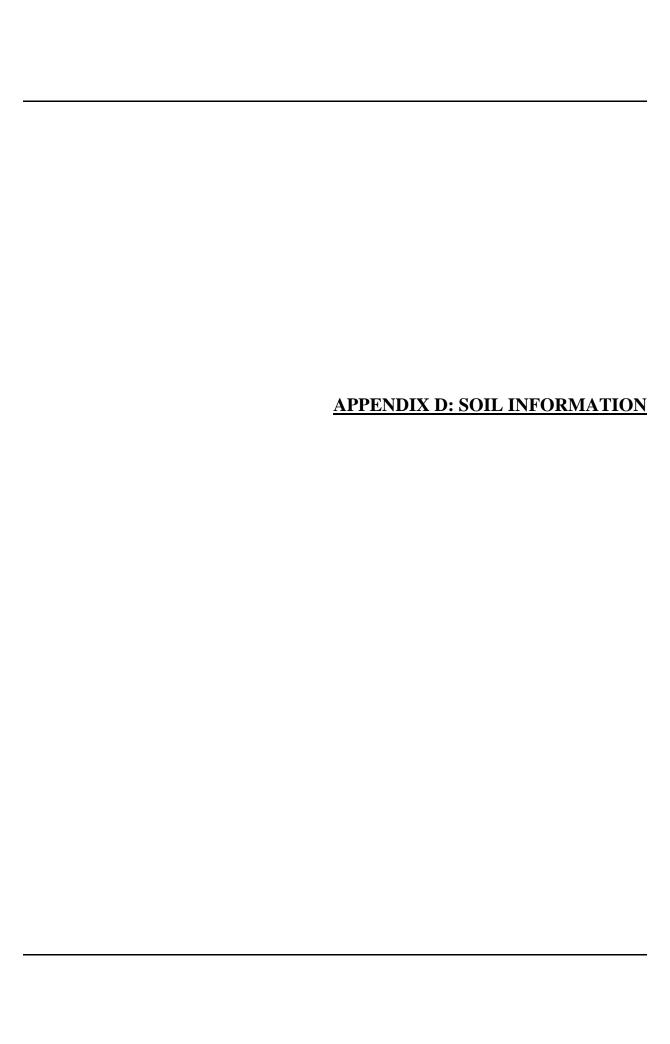
^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Profile Desci	ription: (Describ	e to the dept	h needed to doc	ument the indi	cator or co	nfirm the	e absence of indicators.)
Depth	Mat			Redox Feat			_
(inches)	Color (moi		Color (mo	oist) %	_Tvpe ¹	Loc ²	Texture Remarks
0-9	10YR 3	100%					Clay Loam
9-20	10YR 4	/2 95%	2.5YR	4/6 5%	C	M	Clay Loam
1 Type: C=Cor	ncentration. D=De	pletion. RM=Re	educed Matrix, CS=	Covered or Coat	ed Sand Grai	ns ² Loca	ation: PL=Pore Lining. M=Matrix
Hydric Soil I	Indicators: (Ap	plicable to all	LRRs, unless ot	herwise noted.)		Indicators for Problematic Hydric Soils: ³
Histosol ((A1)		Sandy	Redox (S5)			1 cm Muck (A9) (LRR C)
Histic Epi	pedon (A2)			d Matrix (S6)			2 cm Muck (A10) (LRR B)
Black Hist			Loamy	Mucky Mineral (F	1)		Reduced Vertic (F18)
_ ` `	Sulfide (A4)		Loamy	Gleyed Matrix (F.	2)		Red Parent Material (TF2)
_	Layers (A5) (LRR	C)	_	ed Matrix (F3)			Other (Explain in Remarks)
_	k (A9) (LRR D)		Redox	Dark Surface (F6))		out at (Explain in Normality)
	Below Dark Surface	ce (A11)	☐ Deplete	ed Dark Surface (F7)		
	k Surface (A12)		Redox	depressions (F8)			3
l — ,	ick Mineral (S1)		Vernal	Pools (F9)			Indicators of hydrophytic vegetation and wetland hydrology must be present.
Sandy Gle	eyed Matrix (S4)						
Restrictive L	ayer (if present):					
Type:							Hydric Soil Present? Yes ● No ○
Depth (inc	hes):						Hydric Soil Present? Yes ● No ○
Remarks:							
Soils meet the	e criteria for de _l	oleted matrix.					
Hydrolog	У						
Wetland Hyd	Irology Indicato	rs:					
Primary Indi	icators (minimu	m of one reau	ired; check all th	nat apply)			Secondary Indicators (2 or more required)
Surface W				Crust (B11)			Water Marks (B1) (Riverine)
✓ High Wat	er Table (A2)		Biotic	Crust (B12)			Sediment Deposits (B2) (Riverine)
✓ Saturation				tic Invertebrates	(B13)		Drift Deposits (B3) Riverine)
☐ Water Ma	rks (B1) (Nonriver	ine)	Hydr	ogen Sulfide Odo	r (C1)		Drainage Patterns (B10)
Sediment	Deposits (B2) (No	onriverine)	Oxidi	zed Rhizospheres	along Living	Roots (C3	Dry Season Water Table (C2)
☐ Drift depo	osits (B3) (Noneriv	erine)	Prese	ence of Reduced	Iron (C4)		Crayfish Burrows (C8)
Surface S	oil Cracks (B6)		Rece	nt Iron Reductior	in Plowed S	oils (C6)	Saturation Visible on Aerial Imagery (C9)
☐ Inundatio	n Visible on Aeria	Imagery (B7)	Thin	Muck Surface (C7	')		Shallow Aquitard (D3)
☐ Water-Sta	ained Leaves (B9)		Othe	r (Explain in Rem	arks)		FAC-neutral Test (D5)
Field Observ	ations:						
Surface Water		Yes O No	Dej	oth (inches):			
					7	-	
Water Table P			1	oth (inches):	7	Wetla	land Hydrology Present? Yes No
Saturation Pre (includes capil		Yes 🔾 No	De _l	oth (inches):	0		
		eam gauge, r	nonitor well, aer	ial photos, prev	vious inspec	ctions), if	f available:
Remarks:							
	urated at the su	rface.					

Are Vegetation , Soil , or Summary of Findings - Attact Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye	site typi r Hydrolo ch site es es es	m ical for this ogy —	significantly on	Local relief .06392 Yes disturbed? blematic? mpling p	No Are "N (If nee	Alormal Circumstances" present? Yes No oeded, explain any answers in Remarks.)	6/ 0.1
Landform (hillslope, terrace, etc.): Vall Subregion (LRR): LRR D Soil Map Unit Name: McBeth silt loam re climatic/hydrologic conditions on the Are Vegetation , Soil , or Are Vegetation , Soil , or Summary of Findings - Attact Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present?	site typi r Hydrold r Hydrold ch site es es es	ical for this ogy ogy omap sh No No	time of year? significantly on	Local relief .06392 Yes disturbed? blematic? mpling p	No Care "No (If nee	Convex, none): flat Long.: -111.73400 NWI classification: Upland (If no, explain in Remarks.) Jormal Circumstances" present? Yes No eded, explain any answers in Remarks.) cations, transects, important features,	3
Subregion (LRR): LRR D Soil Map Unit Name: McBeth silt loam re climatic/hydrologic conditions on the Are Vegetation , Soil , or Are Vegetation , Soil , or Summary of Findings - Attact Hydrophytic Vegetation Present? Yet Hydric Soil Present? Yet Wetland Hydrology Present?	site typi r Hydrold r Hydrold ch site es es es	ical for this ogy ogy omap sh No No	time of year? significantly on	.06392 Yes disturbed? blematic? mpling p	No OAre "No (If nee	NWI classification: Upland (If no, explain in Remarks.) Jormal Circumstances" present? Yes No ceded, explain any answers in Remarks.) cations, transects, important features,	3
Soil Map Unit Name: McBeth silt loam re climatic/hydrologic conditions on the Are Vegetation , Soil , or Are Vegetation , Soil , or Summary of Findings - Attact Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye	r Hydrolo r Hydrolo ch site es es es	ogy □ ogy □ map sh No No No	time of year? significantly on	Yes disturbed? blematic? mpling p	Are "N (If nee	NWI classification: Upland (If no, explain in Remarks.) Jormal Circumstances" present? Yes No oeded, explain any answers in Remarks.) cations, transects, important features,	
re climatic/hydrologic conditions on the Are Vegetation , Soil , or Are Vegetation , Soil , or Summary of Findings - Attace Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present?	r Hydrolo r Hydrolo ch site es es es	ogy □ ogy □ map sh No No No	significantly on	blematic? mpling p	Are "N (If nee	(If no, explain in Remarks.) Jormal Circumstances" present? Yes No Ceded, explain any answers in Remarks.) Cations, transects, important features,	etc.
re climatic/hydrologic conditions on the Are Vegetation , Soil , or Are Vegetation , Soil , or Summary of Findings - Attace Hydrophytic Vegetation Present? Yes Hydric Soil Present? Yes Wetland Hydrology Present?	r Hydrolo r Hydrolo ch site es es es	ogy □ ogy □ map sh No No No	significantly on	blematic? mpling p	Are "N (If nee	(If no, explain in Remarks.) Jormal Circumstances" present? Yes No Ceded, explain any answers in Remarks.) Cations, transects, important features,	etc.
Are Vegetation , Soil , or Summary of Findings - Attact Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye	ch site es es es	map sh	naturally pro	mpling p	(If nee	eded, explain any answers in Remarks.) cations, transects, important features,	etc.
Summary of Findings - Attace Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	es O	map sh		mpling p	(If nee	eded, explain any answers in Remarks.) cations, transects, important features,	etc.
Summary of Findings - Attace Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	es O	map sh		mpling p	oint loc	cations, transects, important features,	etc.
Hydrophytic Vegetation Present? Ye Hydric Soil Present? Ye Wetland Hydrology Present? Ye	es O es O	No •		Is the		·	
Wetland Hydrology Present?	es O				Sampled A	area	
		No •		within		Vee O No O	
Remarks: Upland area adjacent to Si	P-80.				a Wetland	1? res UNO S	
opiana area adjacem to s	· -00.						
VEGETATION - Use scientific	c name	es of plan	its.	Dominant			
			Absolute	—Species? Rel.Strat.	Indicator	Dominance Test worksheet:	
Tree Stratum (Plot size:)		% Cover	Cover	Status	Number of Dominant Species	
1,			· -	0.0%		That are OBL, FACW, or FAC: (A	1)
2				0.0%		Total Number of Dominant	
3. 4.			0_	0.0%		Species Across All Strata: 4 (B	;)
			0	0.0%		Percent of dominant Species	
Sapling/Shrub Stratum (Plot size:)	0	= Total Cove	er		VB)
1.			0	0.0%		Prevalence Index worksheet:	
2.				0.0%		Total % Cover of: Multiply by:	
3.			0	0.0%		0BL species 0 x 1 = 0	
4.			0	0.0%		FACW species 0 x 2 = 0	
5.			0	0.0%		FAC species 20 x 3 = 60	
			0	= Total Cove	er	FACU species 80 x 4 = 320	
Herb Stratum (Plot size:)					UPL species $0 \times 5 = 0$	
1. Festuca pratensis			35	35.0%	FACU	· ·	(B)
2. Trifolium repens				20.0%	FACU		.0)
3. Taraxacum officinale				20.0%	FACU	Prevalence Index = B/A = 3.800	
4. Poa pratensis				20.0%	FAC	Hydrophytic Vegetation Indicators:	
5. Arctium minus6.			5	0.0%	FACU	☐ Dominance Test is > 50%	
7.				0.0%		Prevalence Index is ≤3.0 1	
8.				0.0%		Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet)	ng
9.			0	0.0%		Problematic Hydrophytic Vegetation ¹ (Explain)	
10.			0	0.0%		Problematic Hydrophytic Vegetation (Explain)	,
11.			0	0.0%			
			100	= Total Cov	er	¹ Indicators of hydric soil and wetland hydrology m be present, unless disturbed or problematic.	ust
Woodv Vine Stratum (Plot size:		_)				so present, unless distar sed of presentation	
1			0	0.0%			
2			0	0.0%		Hydrophytic	
			0	= Total Cov	er	Vegetation Present? Yes ○ No ●	
% Bare Ground in Herb Stratum: $_{ m 0}$		% (Cover of Bioti	c Crust _O			
Remarks:							
The area does not meet the vegetation	criteria						

^{*}Indicator suffix = National status or professional decision assigned because Regional status not defined by FWS.

Depth	Matrix		Red	lox Featu				
(inches)	Color (moist)	%	Color (moist)	%	Tvpe 1	Loc2	Texture	Remarks
0-20	10YR 3/2	100%					Clay Loam	
 Type: C=Cond	entration D=Depletion	n RM=Reduced	I Matrix CS=Covere	d or Coate	d Sand Grai	ns 2l ocat	tion: PL=Pore Lining. M=Matrix	
J.	ndicators: (Applicat					ns Locat	<u> </u>	- 11-4-1- 6-11-3
Histosol (A		ole to all ERRS	Sandy Redox				Indicators for Problemat	•
Histic Epip			Stripped Matri				1 cm Muck (A9) (LRR C)	
Black Histi			Loamy Mucky		1)		2 cm Muck (A10) (LRR E	3)
Hydrogen	Sulfide (A4)		Loamy Gleyed				Reduced Vertic (F18)	2)
Stratified L	ayers (A5) (LRR C)		Depleted Matr		.,		Red Parent Material (TF	
1 cm Muck	(A9) (LRR D)		Redox Dark Su				Other (Explain in Remar	KS)
Depleted E	Below Dark Surface (A1	1)	Depleted Dark					
Thick Dark	Surface (A12)		Redox depress		',			
] Sandy Muc	k Mineral (S1)		Vernal Pools (³ Indicators of hydrophytic v	
Sandy Gley	yed Matrix (S4)		vernar roots (7)			wetland hydrology must	be present.
strictive La	yer (if present):							
Type:								
Depth (inch	es):		_				Hydric Soil Present? You	es O No 🗨
emarks:								
ydrology								
etland Hydr	ology Indicators:							
rimary Indic	ators (minimum of	one required;	check all that app	oly)			Secondary Indicator	s (2 or more required)
Surface Wa	ater (A1)		Salt Crust (E	311)			Water Marks (B1)	(Riverine)
] High Wate	r Table (A2)		☐ Biotic Crust	(B12)			Sediment Deposits	(B2) (Riverine)
Saturation	(A3)		Aquatic Inve	rtebrates	(B13)		Drift Deposits (B3)	Riverine)
Water Mar	ks (B1) (Nonriverine)		Hydrogen Su	ılfide Odor	(C1)		☐ Drainage Patterns	(B10)
Sediment I	Deposits (B2) (Nonrive	rine)	Oxidized Rh	zospheres	along Living	Roots (C3	B) Dry Season Water	Table (C2)
Drift depos	sits (B3) (Noneriverine))	Presence of	Reduced I	ron (C4)		Crayfish Burrows (C8)
Surface So	il Cracks (B6)		Recent Iron	Reduction	in Plowed S	oils (C6)	Saturation Visible	on Aerial Imagery (C9)
Inundation	n Visible on Aerial Imag	jery (B7)	☐ Thin Muck S	urface (C7)		Shallow Aquitard (D3)
☐ Water-Stai	ned Leaves (B9)		Other (Expla	in in Rema	arks)		FAC-neutral Test (D5)
eld Observa	ntions:							
ırface Water I	.,	○ No ●	Depth (inc	hes):				
ater Table Pr		○ No ●	•					
						Wetla	and Hydrology Present?	res ○ No •
aturation Pres		O No 💿	Depth (inc	hes):		-		
ncludes capilla		gauge, monito	or well, aerial pho	tos, prev	ious inspe	ctions), if	available:	
-	orded Data (stream	quuqu/ IIIoiiit						
	orded Data (stream	quaqo _/ o						
emarks:								
escribe Reco	orded Data (stream							
escribe Reco								



Utah County, Utah - Central Part

Be—Benjamin silty clay, moderately alkali

Map Unit Setting

National map unit symbol: j6wf Elevation: 4,700 to 5,000 feet

Mean annual precipitation: 14 to 18 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Benjamin and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Benjamin

Setting

Landform: Flood plains

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from limestone and shale

Typical profile

Ap1 - 0 to 1 inches: silty clay
Ap2 - 1 to 4 inches: silty clay
A1 - 4 to 17 inches: silty clay
C1 - 17 to 25 inches: silty clay
C2g - 25 to 38 inches: silty clay
C3 - 38 to 46 inches: silty clay loam
C4 - 46 to 52 inches: silty clay
IIC5 - 52 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 30 to 60 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

Salinity, maximum in profile: Moderately saline to strongly saline (8.0)

to 32.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 60.0 Available water storage in profile: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 4w Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: C

Ecological site: Alkali Bottom (Alkali Sacaton) (R028AY001UT)

Minor Components

Depressional soils

Percent of map unit: 3 percent

Landform: Flood plains

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear Across-slope shape: Concave

Ecological site: Alkali Bottom (Alkali Sacaton) (R028AY001UT)

Strongly saline-alkali soils

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Br—Bramwell silty clay loam

Map Unit Setting

National map unit symbol: j6wn Elevation: 4,320 to 4,600 feet

Mean annual precipitation: 12 to 16 inches Mean annual air temperature: 45 to 52 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Bramwell and similar soils: 85 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Bramwell

Setting

Landform: Terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from mixed sources

Typical profile

Ap - 0 to 6 inches: silty clay loam
A1 - 6 to 11 inches: silty clay loam
C1 - 11 to 20 inches: silty clay loam
C2ca - 20 to 31 inches: silty clay loam
C3ca - 31 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 24 to 36 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

Salinity, maximum in profile: Moderately saline to strongly saline (8.0

to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 30.0

Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 7w



Hydrologic Soil Group: D

Ecological site: Alkali Bottom (Alkali Sacaton) (R028AY001UT)

Minor Components

Chipman

Percent of map unit: 5 percent

Strongly saline soils

Percent of map unit: 3 percent

Taylorsville

Percent of map unit: 3 percent

Depressional soils

Percent of map unit: 2 percent

Landform: Depressions on lake terraces

Landform position (three-dimensional): Tread, dip

Down-slope shape: Linear, concave Across-slope shape: Linear, concave

Ecological site: Alkali Bottom (Alkali Sacaton) (R028AY001UT)

Hardpan soils

Percent of map unit: 2 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Ir—Ironton loam

Map Unit Setting

National map unit symbol: j6xm Elevation: 4,500 to 4,550 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Ironton and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Ironton

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from mixed sources

Typical profile

Ap - 0 to 8 inches: loam

C1,2,3,cag - 8 to 32 inches: loam

IIC4g - 32 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: About 12 to 24 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0 Available water storage in profile: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: B/D

Ecological site: Semiwet Fresh Meadow (R028AY012UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Mh—McBeth silt loam

Map Unit Setting

National map unit symbol: j6yj Elevation: 4,500 to 4,600 feet

Mean annual precipitation: 12 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Mcbeth and similar soils: 95 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mcbeth

Setting

Landform: Lake terraces, alluvial fans, flood plains Landform position (three-dimensional): Tread, talf, dip

Down-slope shape: Linear, concave

Across-slope shape: Linear, convex, concave

Parent material: Alluvium derived from mixed sources

Typical profile

Ap - 0 to 8 inches: silt loam
A1 - 8 to 12 inches: silt loam
C1g - 12 to 18 inches: silt loam

C2g - 18 to 24 inches: very fine sandy loam

C3g, C4g - 24 to 68 inches: silt loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: About 12 to 24 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0

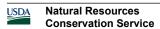
mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 7w



Hydrologic Soil Group: B/D

Ecological site: Semiwet Fresh Meadow (R028AY012UT)

Minor Components

Chipman

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Pd—Payson silty clay loam

Map Unit Setting

National map unit symbol: j6z0 Elevation: 4,550 to 4,600 feet

Mean annual precipitation: 12 to 14 inches Mean annual air temperature: 45 to 50 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Payson and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Payson

Setting

Landform: Escarpments
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Lacustrine deposits derived from limestone and

shale

Typical profile

A21,A22 - 0 to 9 inches: silty clay loam

B1 - 9 to 14 inches: silty clay B2t - 14 to 21 inches: clay

B3ca&C1ca - 21 to 33 inches: clay

C2ca - 33 to 48 inches: clay C3 - 48 to 68 inches: clay

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 36 to 54 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Moderately saline to strongly saline (8.0

to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 90.0 Available water storage in profile: High (about 9.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: C

Ecological site: Alkali Bottom (Alkali Sacaton) (R028AY001UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

RdA—Redola loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: j6zp Elevation: 4,600 to 5,000 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Redola and similar soils: 95 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Redola

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear, concave Across-slope shape: Concave, convex

Parent material: Alluvium derived from limestone and sandstone

Typical profile

Ap - 0 to 8 inches: loam C1,C2 - 8 to 30 inches: loam

C3 - 30 to 50 inches: stratified gravelly coarse sand to very fine sandy

loam

IIC4 - 50 to 60 inches: gravelly coarse sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

2.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): 2c Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: B

Ecological site: Loamy Bottom (Great Basin Wildrye) (R028AY006UT)

Other vegetative classification: Loamy Bottom (Great Basin Wildrye) (028AY006UT)

Minor Components

Martin

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Sd—Steed sandy loam

Map Unit Setting

National map unit symbol: j6zs Elevation: 4,550 to 5,200 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 47 to 50 degrees F

Frost-free period: 150 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Steed and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Steed

Setting

Landform: Alluvial fans
Down-slope shape: Concave
Across-slope shape: Convex

Parent material: Alluvium derived from limestone, sandstone,

quartzite, and shale

Typical profile

A1 - 0 to 7 inches: sandy loam

C1 - 7 to 31 inches: extremely gravelly loamy sand C2,C3 - 31 to 60 inches: extremely gravelly sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00

to 6.00 in/hr)

Depth to water table: About 48 to 72 inches

Frequency of flooding: Occasional Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 5.0 Available water storage in profile: Low (about 3.5 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: Semiwet Fresh Streambank (R028AY014UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

VnA—Vineyard fine sandy loam, 0 to 2 percent slopes

Map Unit Setting

National map unit symbol: j70c Elevation: 4,500 to 4,900 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 47 to 50 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Vineyard and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Vineyard

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from limestone,

sandstone, and shale

Typical profile

Ap - 0 to 7 inches: fine sandy loam AC - 7 to 13 inches: fine sandy loam

C1ca,C2ca - 13 to 35 inches: fine sandy loam C3ca - 35 to 42 inches: very fine sandy loam C4 - 42 to 60 inches: very fine sandy loam

Properties and qualities

Slope: 0 to 2 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00

to 6.00 in/hr)

Depth to water table: About 30 to 60 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: Moderate (about 7.6 inches)

Interpretive groups

Land capability classification (irrigated): 2w

Land capability classification (nonirrigated): 3w

Hydrologic Soil Group: A

Ecological site: Semiwet Fresh Meadow (R028AY012UT)

Minor Components

Timpanogos

Percent of map unit: 5 percent

Welby

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

WbB—Welby silt loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: j70g Elevation: 4,500 to 5,200 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 47 to 50 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Welby and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Welby

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from limestone,

sandstone, and shale

Typical profile

Ap - 0 to 7 inches: silt loam
A1 - 7 to 12 inches: loam
AC - 12 to 22 inches: silt loam

C1ca, C2ca, C3 - 22 to 65 inches: silt loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): 2e Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Upland Loam (Bonneville Big Sagebrush) North (R028AY310UT)

Other vegetative classification: Upland Loam (Mountain Big Sagebrush) (028AY310UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

HmE—Hillfield silt loam, 10 to 20 percent slopes

Map Unit Setting

National map unit symbol: j6xg Elevation: 4,700 to 5,200 feet

Mean annual precipitation: 12 to 14 inches Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 150 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Hillfield and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Hillfield

Setting

Landform: Escarpments, lake terraces Landform position (three-dimensional): Riser

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from mixed sources

Typical profile

Ap - 0 to 4 inches: silt loam
AC - 4 to 12 inches: silt loam
C1ca - 12 to 26 inches: silt loam
C2ca - 26 to 35 inches: loam
C3ca - 35 to 40 inches: loam
IIC4 - 40 to 60 inches: sandy loam

Properties and qualities

Slope: 10 to 20 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 50 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0

mmhos/cm)

Sodium adsorption ratio, maximum in profile: 20.0

Available water storage in profile: Moderate (about 8.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Upland Loam (Bonneville Big Sagebrush) North

(R028AY310UT)

Other vegetative classification: Upland Loam (Mountain Big

Sagebrush) (028AY310UT)

Minor Components

Taylorsville

Percent of map unit: 5 percent

Welby

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Hr—Holdaway silt loam

Map Unit Setting

National map unit symbol: j6xk Elevation: 4,400 to 4,500 feet

Mean annual precipitation: 12 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Holdaway and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Holdaway

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from mixed sources

Typical profile

Ap - 0 to 7 inches: silt loam
A1 - 7 to 13 inches: silt loam
C1cag - 13 to 20 inches: silt loam
C2camg - 20 to 28 inches: indurated
C3cag - 28 to 32 inches: silt loam

C4cam-C6camg - 32 to 67 inches: cemented material

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: 20 to 40 inches to petrocalcic

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Very low

to moderately high (0.00 to 0.20 in/hr)

Depth to water table: About 12 to 24 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 75 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 15.0 Available water storage in profile: Low (about 3.4 inches)

Interpretive groups

Land capability classification (irrigated): 3w Land capability classification (nonirrigated): 7w



Hydrologic Soil Group: D

Ecological site: Wet Fresh Meadow (R028AY020UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Ks—Kirkham silty clay loam

Map Unit Setting

National map unit symbol: j6y0 Elevation: 4,500 to 4,600 feet

Mean annual precipitation: 13 to 17 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 150 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Kirkham and similar soils: 90 percent Minor components: 10 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Kirkham

Setting

Landform: Flood plains, alluvial fans

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear, concave Across-slope shape: Concave, convex

Parent material: Alluvium derived from sandstone, quartzite and

granite

Typical profile

Ap - 0 to 11 inches: silty clay loam C1,C2 - 11 to 28 inches: silty clay loam

C3 - 28 to 42 inches: silty clay C4,C5 - 42 to 65 inches: silt loam

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat poorly drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 24 to 48 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0

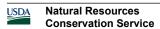
mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability classification (nonirrigated): 4w



Hydrologic Soil Group: D

Ecological site: Semiwet Fresh Meadow (R028AY012UT)

Minor Components

Benjamin

Percent of map unit: 5 percent

Pleasant vale

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

Pw—Provo gravelly fine sandy loam

Map Unit Setting

National map unit symbol: j6zh Elevation: 4,500 to 4,800 feet

Mean annual precipitation: 11 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Provo and similar soils: 95 percent Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Provo

Setting

Landform: Flood plains

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from limestone, sandstone,

quartzite, and shale

Typical profile

Ap - 0 to 7 inches: gravelly fine sandy loam
A1g - 7 to 15 inches: gravelly fine sandy loam
C1g - 15 to 25 inches: extremely gravelly sand
IIC2 - 25 to 40 inches: extremely gravelly loamy sand
IIC3 - 40 to 60 inches: extremely gravelly sand

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Poorly drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00

to 6.00 in/hr)

Depth to water table: About 18 to 48 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

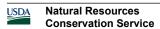
2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 4w



Land capability classification (nonirrigated): 7w

Hydrologic Soil Group: B

Ecological site: Semiwet Fresh Streambank (R028AY014UT)

Minor Components

Sunset

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

SgB—Sterling gravelly fine sandy loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: j6zv Elevation: 4,600 to 5,000 feet

Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 47 to 50 degrees F

Frost-free period: 150 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Sterling and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the

mapunit.

Description of Sterling

Setting

Landform: Benches, lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from mixed sources

Typical profile

Ap - 0 to 5 inches: gravelly fine sandy loam
A1 - 5 to 11 inches: gravelly sandy loam
C1ca - 11 to 16 inches: gravelly sandy loam
C2ca - 16 to 21 inches: very gravelly sandy loam
C3ca - 21 to 60 inches: extremely gravelly sand

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Somewhat excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High (2.00

to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to

2.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): 4s Land capability classification (nonirrigated): 4s

Hydrologic Soil Group: A

Ecological site: Upland Stony Loam (Wyoming Big Sagebrush) (R028AY334UT)

Other vegetative classification: Upland Stony Loam (Mountain Big Sagebrush) (028AY334UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part Survey Area Data: Version 8, Sep 23, 2015

Sr—Sunset loam

Map Unit Setting

National map unit symbol: j6zz Elevation: 4,500 to 4,900 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Sunset and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Sunset

Setting

Landform: Flood plains

Landform position (three-dimensional): Talf, dip

Down-slope shape: Linear Across-slope shape: Concave

Parent material: Alluvium derived from limestone, granite and shale

Typical profile

Ap - 0 to 7 inches: loam A1 - 7 to 14 inches: loam

C1,C2,C3 - 14 to 41 inches: stratified very fine sandy loam to loam

C4,C5 - 41 to 60 inches: stratified loam to silty clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches Natural drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr) Depth to water table: About 30 to 48 inches

Frequency of flooding: Rare Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Moderately saline to strongly saline (8.0

to 16.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): 2w Land capability classification (nonirrigated): 6w

Hydrologic Soil Group: C

Ecological site: Semiwet Fresh Meadow (R028AY012UT)

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part

TaB—Taylorsville silty clay loam, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: j704 Elevation: 4,500 to 4,800 feet

Mean annual precipitation: 14 to 16 inches Mean annual air temperature: 47 to 50 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Prime farmland if irrigated

Map Unit Composition

Taylorsville and similar soils: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Taylorsville

Setting

Landform: Lake terraces

Landform position (three-dimensional): Tread

Down-slope shape: Linear Across-slope shape: Linear

Parent material: Lacustrine deposits derived from limestone and

shale

Typical profile

Ap - 0 to 7 inches: silty clay loam
AC - 7 to 13 inches: silty clay loam
C1,C2 - 13 to 36 inches: silty clay loam
C3ca - 36 to 56 inches: silty clay loam
C4 - 56 to 62 inches: silty clay loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum in profile: 40 percent

Salinity, maximum in profile: Slightly saline to moderately saline (4.0

to 8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 25.0

Available water storage in profile: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Upland Loam (Bonneville Big Sagebrush) North
(R028AY310UT)
Other vegetative classification: Upland Loam (Mountain Big
Sagebrush) (028AY310UT)

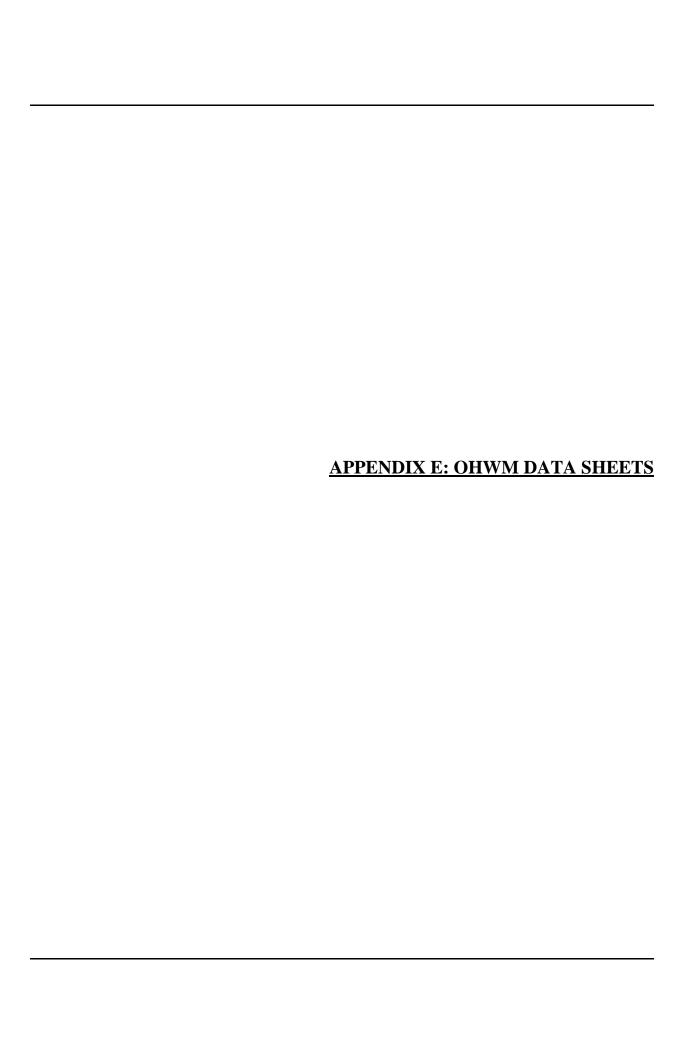
Minor Components

Bramwell

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Utah County, Utah - Central Part



Arid West Ephemeral and Intermittent Streams OHWM Datasheet

Tille () ost Epitellional and Interim				
Project: I-15 Payson Main Street Interchange EIS	Date: 11/10/15	Time: CS-1		
Project Number:	Town: Payson	State: ∪⊤		
Stream: Beer Creek	Photo begin file#:	Photo end file#:		
Investigator(s): Todd Sherman		2 220 00 0220 2220		
investigator (s).	Location Details:			
Y ✓ / N ☐ Do normal circumstances exist on the site?	Section 33, Township 8 South			
Y ☐ / N ✓ Is the site significantly disturbed?	Projection: UTM 12N	Datum: WGS84		
Coordinates: 439048 E 4436082 N				
Potential anthropogenic influences on the channel system: Banks have been grazed, and the creek has been culverted under I-15.				
Brief site description:				
•	ampley adjacent to both sides of	f I-15		
Beer Creek is a perennial stream that flows through a large wetland complex adjacent to both sides of I-15.				
Checklist of resources (if available):				
✓ Aerial photography				
Dates: Gage number:				
✓ Topographic maps Period of record:				
Geologic maps History of recent effective discharges				
Vegetation maps Results of flood frequency analysis				
	ecent shift-adjusted rating			
	neights for 2-, 5-, 10-, and			
	_			
Existing delineation(s) for site most recent event exceeding a 5-year event				
✓ Global positioning system (GPS)				
Other studies				
Hydrogeomorphic Floodplain Units				
Active Fleedalain	Laur Tarraga			
Active Floodplain	Low Terrace	1		
		.		
	/ /			
	/ /			
Low-Flow Channels	OHWM Paleo Char	nnel		
Procedure for identifying and characterizing the floodplain units to assist in identifying the OHWM:				
1. Walk the channel and floodplain within the study area to get an impression of the geomorphology and				
vegetation present at the site.				
2. Select a representative cross section across the channel. Draw the cross section and label the floodplain units.				
3. Determine a point on the cross section that is characteristic of one of the hydrogeomorphic floodplain units.				
a) Record the floodplain unit and GPS position.				
b) Describe the sediment texture (using the Wentworth class size) and the vegetation characteristics of the				
floodplain unit.				
c) Identify any indicators present at the location.				
4. Repeat for other points in different hydrogeomorphic floodplain units across the cross section.				
5. Identify the OHWM and record the indicators. Record the OHWM position via:				
Mapping on aerial photograph GPS				
Digitized on computer Other				

Project ID:	Cross section ID: CS	Date: 11/10/15 Time:
Cross section draw	ving:	
_		
		×
		OHWM
		21' wide
<u>OHWM</u>		
GPS point: CS-1		
Gr 5 point.		
Indicators:		
	verage sediment texture	✓ Break in bank slope
	egetation species	Other:
✓ Change in ve	egetation cover	Other:
Comments:		
The OHWM is defined by a	vertical break in the bank slope, with	no vegetation below the OHWM.
Floodplain unit:	✓ Low-Flow Channel	☐ Active Floodplain ☐ Low Terrace
00.4		
GPS point: CS-1		
Characteristics of the	a flaadnlain unit:	
Average sediment tex	ā .	
		ıb:% Herb:%
Community succession	onal stage:	_
✓ NA		Mid (herbaceous, shrubs, saplings)
Early (herba	ceous & seedlings)	Late (herbaceous, shrubs, mature trees)
Indicators:		
Mudcracks		☐ Soil development
Ripples		✓ Surface relief
Drift and/or	debris	Other:
✓ Presence of l	bed and bank	Other:
Benches		Other:
Comments:		
		nd bank. The channel is deeply incised and has cut off the hydrologic
connection to the floodplain	There is no active floodplain and r	no low terrace associated with Beer Creek within the project area.