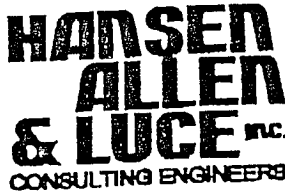


## APPENDIX F

### Septic System Density Recommendations



NORTHERN UTAH AREA OFFICE  
First National Bank Building  
12 South Main Street - Suite 220  
Layton, Utah 84041  
Tel: (801) 444-1760  
Fax: (801) 444-1766  
E-mail: bluce@haleng.com

**FACSIMILE TRANSMITTAL**

Page 1 of	6
Date:	May 20, 1998
To:	MORGAN JENSEN
Firm/Agency:	Washington County WCD
Fax Number:	435-673-4971
From:	Bill Luce
HA&L Project No.:	155.01.300

Morgan,

As requested, the following information applies to the septic system density recommendation for Leeds:

- o The attached risk analysis tables indicate that Leeds has a risk score of 81 which is somewhat mid-range. This risk score results in a recommended down gradient nitrate concentration of 3.3 mg/L. This factor, when introduced into the mass balance analysis, results in a recommended septic system density for Leeds by itself of approximately one system per 2 to 5 acres depending on the specific assumptions made.
- o However, there are two other factors which should be considered for Leeds in addition to the results of the risk analysis and the mass balance analysis.
  - 1) The potential for contaminating Quail Creek Reservoir is a concern.
  - 2) Leeds cannot be considered to be totally isolated from its neighbors, from a water resources standpoint. Hydrogeologically that just isn't the case. And from a water resources management and land use planning standpoint, areas in close proximity to one another should share common development goals and constraints. Therefore, after studying the geology and hydrogeology of the overall study area, we combined Leeds with Pintura, Anderson Junction, Toquerville, LaVerkin, and Hurricane. And while the recommended septic system density for Leeds by itself is higher than the other communities, the weighted average for the combined communities is lower.
- o The recommended septic system density for the hydrogeologic study area containing Leeds is one septic system per 8 to 10 acres.

Please call if you need more information or clarification.

**WASHINGTON COUNTY SEPTIC SYSTEM DENSITY STUDY  
RISK ANALYSIS CRITERIA**

CRITERIA	RANKING			SCORE		
	Low Risk	Medium Risk	High Risk	Low Risk	Medium Risk	High Risk
1 Predictability of Mixing Zone Formation Dispersive Potential (1)	High	Medium	Low	15	30	45
2 Potential to Enter Down Gradient Faults	Low	Medium	High	10	20	30
3 Depth to Water Table	> 600 ft	300 - 600 ft	< 300 ft	5	10	15
4 Potential for Pollutants to Travel Vertically to Water Table	Low	Medium	High	5	10	15
5 Proximity to Existing Down Gradient Culinary Water Supply	> 5 miles	1-5 miles	< 1 mile	10	20	30
6 Potential to Affect Surface Water	Low	Medium	High	1	3	5

(1) Dispersive Potential Predictability  
 High Predictability - Mixing zone composed primarily of alluvial fill  
 Medium Predictability - Mixing zone composed of a mixture of mostly fractured bedrock with some alluvial fill  
 Low Predictability - Mixing zone composed primarily of fractured bedrock

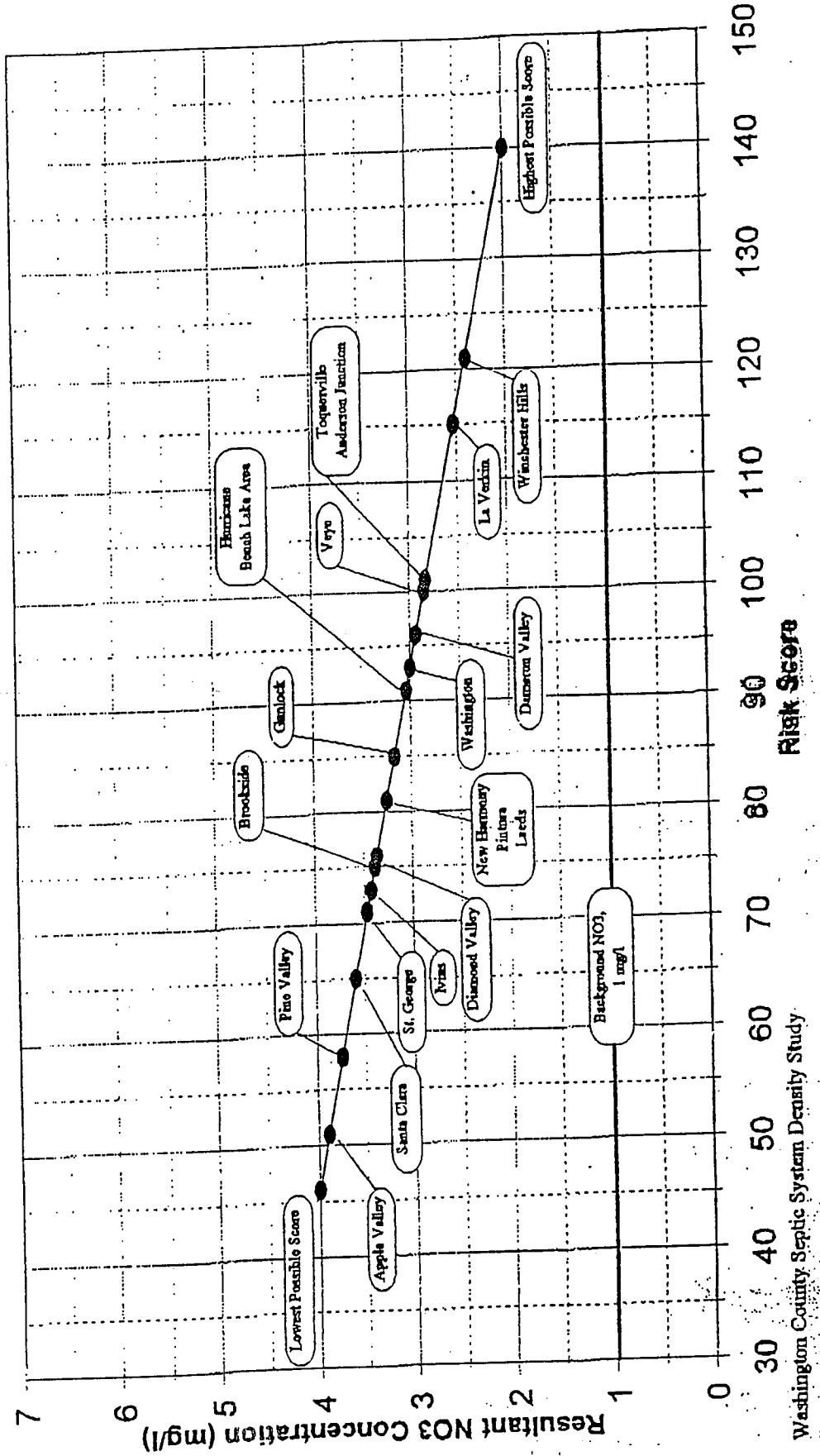
2018

WASHINGTON COUNTY SEPTIC SYSTEM DENSITY STUDY RISK ANALYSIS								
AREA	CURRENTLY SEWERED	CRITERIA / SCORE						TOTAL SCORE
		1	2	3	4	5	6	
Anderson Junction		15	30	5	30	20	1	101
Apple Valley		15	10	5	10	10	1	51
Bench Lake Area		30	20	5	15	20	1	91
Brookside		15	10	5	10	30	5	75
Dameron Valley		30	30	5	10	20	1	96
Diamond Valley		30	10	5	10	20	1	76
Gunlock		15	30	5	10	20	5	85
Hurricane	Yes	30	10	5	15	30	1	91
Ivins	Yes	15	10	5	10	30	3	73
La Verkin	Yes	30	30	5	15	30	5	115
Leeds		30	20	5	15	10	1	81
New Harmony		15	20	5	30	10	1	81
Pine Valley		15	10	5	15	10	3	58
Pintura		15	30	5	10	20	1	81
Santa Clara	Yes	15	10	5	10	20	5	65
St. George	Yes	15	10	5	30	10	1	71
Toquerville	Yes	30	30	5	15	20	1	101
Veyo		30	30	5	10	20	5	100
Washington	Yes	15	30	5	30	10	3	93
Winchester Hills		45	30	15	10	20	1	121

MAILED  
6 0 00

# Risk Based Resultant NO3 Concentration

Increase of 1-3 mg/l Above Background



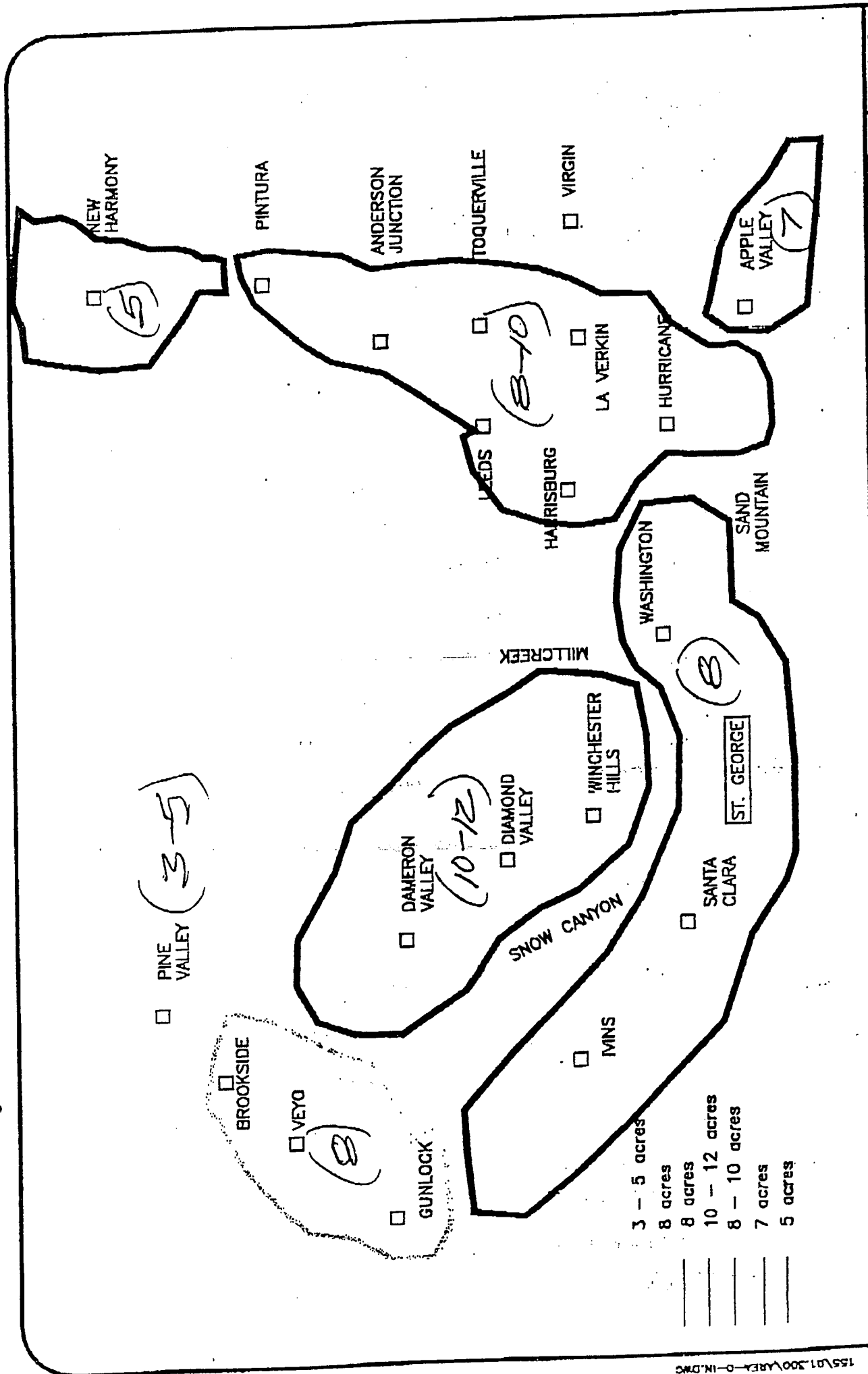


FIGURE 1

GENERALIZED AREAS OF INFLUENCE  
 WATER SYSTEM DENSITY RECOMMENDATIONS



# APPENDIX G

## Environmental Documentation



United States Department of Agriculture  
Rural Development

340 North 600 East  
Richfield, Utah 84701  
(435)896-5489  
FAX (435)896-4819

03/03/99

Ron Mosher, Mayor  
Town of Leeds  
218 North Main  
P.O. Box 460879  
Leeds, Utah 84746-0879

**RE: Leeds Wastewater Project**

Dear Mayor Mosher:

USDA-Rural Development has started the environmental review process for the Leeds Wastewater Project. We contacted the Bureau of Land Management (BLM) regarding the project. They indicate a right-of-way authorization will be needed where the sewer line will cross BLM lands between Leeds and Harrisburg. Please find attached a copy of the letter with attachment that we have received from the BLM. This information is being provided to you so you are aware of the requirements of BLM and so you can work with your engineer in getting this right-of-way completed.

If you have any questions, please feel free to give either myself or Hal Nielson a call at (435)896-5489, Extension 22 or 21.

Sincerely,

A handwritten signature in cursive script that reads "John A. Morgan".

JOHN A. MORGAN  
Rural Development Manager  
Area II

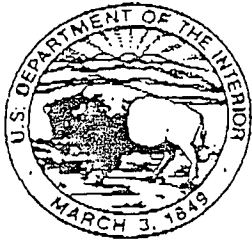
attachment

cc: Karl Rasmussen, Jones and DeMille Engineering

*USDA Rural Development*

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Complaints of discrimination should be sent to:  
Secretary of Agriculture, Washington, D.C. 20250



JN  
FEB 25 1999

## UNITED STATES DEPARTMENT OF THE INTERIOR

## BUREAU OF LAND MANAGEMENT

ST GEORGE FIELD OFFICE

345 E. Riverside Drive

St. George, Utah 84790

Phone (435)688-3200 • Fax (435)688-3258

In reply refer to:  
2800  
(UT-045)

February 17, 1999

John A. Morgan  
USDA Rural Development  
25 South 100 East  
Richfield, UT 84701

Dear Mr. Morgan:

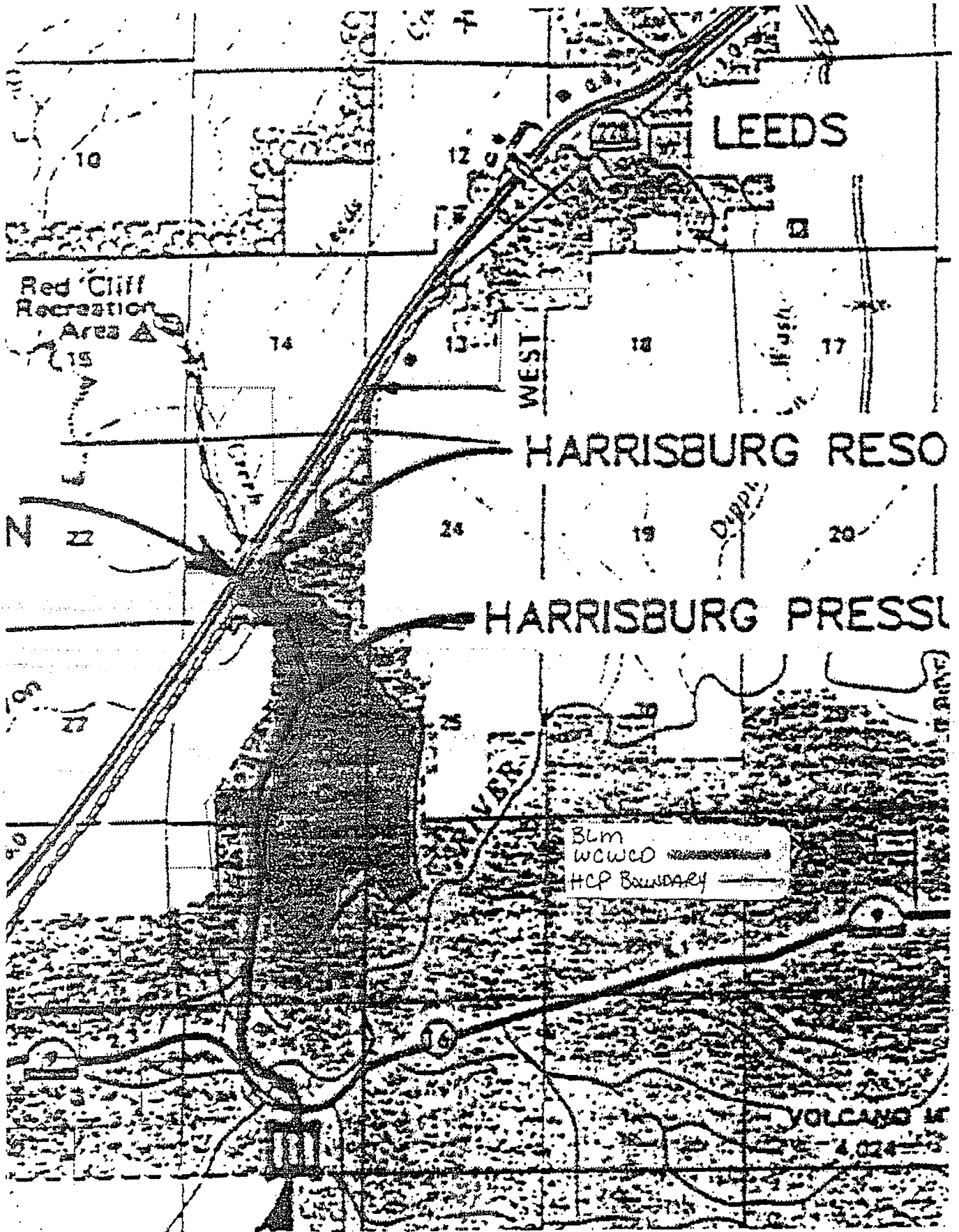
We received a copy of the Leeds Town Wastewater Study and Technical Summary requesting comments on the proposal. Land ownership within the area of your proposal has changed. We have enclosed a map showing the approximate location of BLM lands within the area. The existing sewer line, south of Harrisburg, is authorized across BLM land by a right-of-way to Washington County Water Conservancy District (WCWCD). The new line, proposed north of Harrisburg, needs a right-of-way authorization for the portions that cross BLM lands. The new line could be added to the existing WCWCD right-of-way, or a new right-of-way issued to the Town of Leeds or Ash Creek Special Services District. A small portion of the new line is within the Red Cliffs Desert Reserve (HCP). You will need to coordinate with Bill Mader, Reserve Administrator, for protocol within this area. Mr. Mader's phone number is (435) 634-5756.

If you have any questions, please call Kathy Abbott at (435) 688-3234.

Sincerely,

Larry Gore  
Acting Field Office Manager

Enclosure





*United States Department of Agriculture  
Rural Development*

*340 North 600 East  
Richfield, Utah 84701  
(435)896-5489  
FAX (435)896-4819*

03/05/99

Ron Mosher, Mayor  
Town of Leeds  
218 North Main  
P.O. Box 460879  
Leeds, Utah 84746-0879

**RE: Leeds Wastewater Project**

Dear Mayor Mosher:

USDA-Rural Development has started the environmental review process for the Leeds Wastewater Project. We contacted the Utah Department of Transportation (UDOT) regarding the project. They indicate this project will require an encroachment permit for work done along SR-288 (Main Street) and a permit for work done along SR-9 (line by Ash Creek Sewer Lagoons). A copy of the letter from UDOT is attached for your reference. This information is being provided to you so you are aware of the requirements of UDOT and so you can work with your engineer in getting these encroachment permits.

If you have any questions, please feel free to give either myself or Hal Niclson a call at (435)896-5489, Extension 22 or 21.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Morgan".

JOHN A. MORGAN  
Rural Development Manager  
Area II  
attachment

cc: Karl Rasmussen, Jones and DeMille Engineering

*USDA Rural Development*

*USDA Rural Development is an Equal Opportunity Lender.  
Complaints of discrimination should be sent to:  
Secretary of Agriculture, Washington, D.C. 20250*



State of Utah  
DEPARTMENT OF TRANSPORTATION

Michael O. Leavitt  
Governor  
Thomas R. Warne  
Executive Director  
Clinton D. Topham  
Deputy Director  
A. Scott Munson  
District Engineer

Cedar City District  
1470 North Airport Road  
Cedar City, Utah 84720  
(435) 865-5500  
Fax: (435) 865-5564

Transportation Commission  
Glen E. Brown  
Chairman  
James G. Larkin  
Ted D. Lewis  
Hal M. Clyde  
Dan R. Eastman  
Sheri L. Griffith  
Stephen M. Bodily  
LeAnn Abegglen  
Commission Secretary

1 March 1999

John A. Morgan  
Rural Development Manager, Area II  
USDA Rural Development  
340 North 600 East  
Richfield, Utah 84701

Ref: Leeds Town Sewer Project

Dear Mr. Morgan:

Our Cedar City District has reviewed the proposal for the sewer project for Leeds Town. The project includes boring under SR-9 adjacent to the Ash Creek Sewer Lagoons, and this is appropriate for crossing the highway. However, upon field review it appears that placement of the line along SR-9 from the river to the crossing will be under the paved shoulder.

Furthermore, the placement of the 10" sewer line down Main Street (SR-228) along with the collection lines and manholes will greatly impact the highway. The roadway presently has curb & gutter or irrigation ditches on either side with narrow unpaved shoulders. There are also drainage problems with inadequate cross slopes where water runs down the middle of the road in some places. This problem will likely be complicated by the trenching required by the proposed project. To minimize these adverse effects, we would propose that the main line be placed within the unpaved portion of the roadway.

This project will require encroachment permits for work done within our right-of-way, both the boring under SR-9 and the extensive trenching along SR-228 (Main Street). We would request that trenching within the roadway be backfilled with flowable fill. When application is made for the encroachment permit, detailed plans as to the exact location of the intended sewer lines within our right-of-way will be required.

Sincerely,

A. Scott Munson, P.E.  
District Engineer

cc Dale E. Peterson, P.E., Region Four Director





United States Department of Agriculture  
Rural Development

340 North 600 East  
Richfield, Utah 84701  
(435)896-5489  
FAX (435)896-4819

03/01/99

Ron Mosher, Mayor  
Town of Leeds  
218 North Main  
P.O. Box 460879  
Leeds, Utah 84746-0879

**RE: Leeds Wastewater Project**

Dear Mayor Mosher:

USDA-Rural Development has started the environmental review process for the Leeds Wastewater Project. We contacted the Corps of Engineers regarding the project and they have requested a wetland delineation report be completed and submitted to them, prior to them making site-specific comments on this project. Please find attached a copy of the letter with attachment that we have received from the Corps of Engineers. This information is being provided to you so you are aware of the requirements of the Corps of Engineers and so you can work with your engineer in getting this wetland delineation report completed. Once the report is completed, please forward a copy of it to this office so we can submit it to the Corps of Engineers for their review.

If you have any questions, please feel free to give either myself or Hal Nielson a call at (435)896-5489, Extension 22 or 21.

Sincerely,

A handwritten signature in black ink, appearing to read "John A. Morgan".

JOHN A. MORGAN  
Rural Development Manager  
Area II

attachment

cc: Karl Rasmussen, Jones and DeMille Engineering

*USDA Rural Development*

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Complaints of discrimination should be sent to:  
Secretary of Agriculture, Washington, D.C. 20250*

Jim

FEB 25 1999



DEPARTMENT OF THE ARMY  
U.S. ARMY ENGINEER DISTRICT, SACRAMENTO  
CORPS OF ENGINEERS  
1325 J STREET  
SACRAMENTO, CALIFORNIA 95814-2922

REPLY TO  
ATTENTION OF

February 22, 1999

Regulatory Branch (199950059)

John A. Morgan  
USDA - Rural Development  
25 South 100 East  
P.O. Box 369  
Richfield, Utah 84701

Dear Mr. Morgan:

This letter is in response to your request dated February 4, 1999, for comments from this office on the proposed Leeds Town Sewer Project, located between Leeds and the Ash Creek Sewer Lagoons, Washington County, Utah.

Pursuant to Section 404 of the Clean Water Act, Department of the Army authorization is required for the discharge of dredged and/or fill material into jurisdictional waters of the United States, including wetlands. A wetland delineation report, in accordance with the 1987 Corps of Engineers Wetland Delineation Manual should be submitted to this office in order for us to evaluate any potential impacts to jurisdictional waters, including wetlands. A list of consultants familiar with this work is included for your convenience. Once this office receives a delineation report, we can provide site-specific comments for the proposed project.

Please note that filling jurisdictional stream channels and/or wetlands without authorization may constitute a violation of the Clean Water Act.

If you have any questions, please contact Ms. Nicholle Braspenickx, at the Utah Regulatory Office, 1403 South 600 West, Suite A, Bountiful, Utah 84010, telephone (801) 295-8380, extension 13.

Sincerely,

Michael A. Schwinn  
Chief, Utah Regulatory Office

Enclosure

**U.S. ARMY CORPS OF ENGINEERS  
UTAH REGULATORY OFFICE  
Wetland Consultants List**

NOTE: We do not guarantee that work done by any consultant will be accurate or adequate. Being present on the list only indicates that they have participated in the training course. Participation in a training course is not indicative of the consultant's capabilities.

**BASELINE DATA, INC.**, 1055 S. State Street, Orem, Utah 84152  
Ph: (801) 224-5288  
Brian Young

**BASIN HYDROLOGY, P.O. Box 3786, Park City, Utah 84060**  
Ph: (435) 649-1252 Fx: (435) 649-5658  
T. Mark Oliver, Hydrologist  
Sean Sweeney

**BINGHAM ENGINEERING**, 5160 Wiley Post Way, Salt Lake City, Utah 84116  
Ph: (801) 532-2520 Fx: (801) 328-3381  
Gregory H. Graves

**BIO/WEST, INC.**, 1063 West 1400 North, Logan, Utah 84321  
Ph: (435) 752-4202 Fx: (435) 752-0507  
Dennis Wenger, Senior Wetlands Ecologist

**CH2M Hill**, 4001 South 700 East, Suite 850, Salt Lake City, Utah 84107  
Ph: (801) 269-0110  
Chuck Blair  
Howard Saxion

**CRS CONSULTING ENGINEERS, INC.**, 265 East 100 South, Suite 240, Salt Lake City, Utah 84111  
Ph: (801) 359-5565 Fx: (801) 359-4272  
Jaime White

E-mail: [jwhite@crsengineers.com](mailto:jwhite@crsengineers.com)

**DIVERSIFIED HABITATS, L.L.C.**, 3900 South 470 East, Suite 200, Salt Lake City, Utah 84107  
Ph: (801) 281-2225 Fx: (801) 281-2224  
Jim Paraskeva

**ECO BEAR LAKE, P.O. Box 54, Garden City, Utah 84028**  
Ph: (435) 946-8830 Fx: (435) 946-8501  
Bryce Neilson

**ENGINEERING PLANNING GROUP (EPG)**, 949 East 12400 South, Kerbs Park, Draper, Utah 84020  
Ph: (801) 572-2200 Fx: (801) 572-2240 Cell: 301-1996  
Derrick (Rick) Smith

**ENTRANCO**, 6053 South Fashion Square Drive, Suite 110, Murray, Utah 84107  
Ph: (801) 266-5951 Fx: (801) 266-5952  
Lesley A. McWhirter, Environmental Scientist  
Mark Young  
Rex Wahl

E-mail: [lmcwhirter@wolsi.com](mailto:lmcwhirter@wolsi.com)

**ENVIROSERVE ASSOCIATES, L.L.C.**, 1224 E. Raymond Road, Fruit Heights, Utah 84037  
Ph: (801) 546-2105 or (801) 540-5419 Fx: (801) 546-9625  
Craig E. Cox

IHI ENVIRONMENTAL, 640 East Wilmington Avenue, Salt Lake City, Utah 84106

Ph: (801) 466-2223 Fx: (801) 466-9616

Becky Paulson, Environmental Scientist

E-mail: [ihi@ihi-env.com](mailto:ihi@ihi-env.com)

INTERMOUNTAIN ECOSYSTEMS, L.C., 270 East 1230 North, Springville, Utah 84663

Ph: (801) 489-4590 Fx: (801) 489-8236

Ronald J. Kass, Ph.D., Botanist/Plant Ecologist

E-mail: [intermteco@aol.com](mailto:intermteco@aol.com)

JBR ENVIRONMENTAL CONSULTANTS, INC., 115 N. Main, Suite 205, P.O. Box 1606, Cedar City, Utah 84721

Ph: (435) 586-8793 Fx: (435) 586-7106

Joseph M. Jarvis, President, Biologist

JBR ENVIRONMENTAL CONSULTANTS, INC., 5365 MacAnne Avenue, Suite B-2, Reno, Nevada 89523

Ph: (702) 747-5777 Fx: (702) 747-2177

Dave Worley

E-mail: [jbrreno@aci.net](mailto:jbrreno@aci.net)

JACK JOHNSON COMPANY, 1910 Prospector Avenue, Park City, Utah 84060

Ph: (435) 645-9000

Doyle Pergande

K.A. SMITH CONSULTING, P.O. Box 52117, Salt Lake City, Utah 84152

Ph: (801) 484-4704 Fx: (801) 484-4704

Karri A. Smith, Professional Wetland Scientist, #1116

LEVINE-FRICKE-RECON, 1010 North Hillfield Rd., Suite 4, Layton, Utah 84041-4842

Ph: (801) 543-3282 Fx: (801) 543-3328

Robert J. Krueger, P.E.

N3003 GOVERNMENT CENTER, 2001 South State Street, Salt Lake City, Utah 84190-1000

Ph: (801) 468-3630

Steve Jensen

NATURAL RESOURCES CONSULTING, 135 East Center Street, Logan, Utah 84321

Ph: (435) 752-0536 Fx: (435) 752-4200

Cynthia K. Johnson, Terrestrial Ecologist

PACIFICORP, 1407 West North Temple, Salt Lake City, Utah 84140

Ph: (801) 220-2238 Fx: (801) 220-4373

Brent G. Arnold

PIONEER ENVIRONMENTAL SERVICES, INC., 980 West 1800 South, Logan, Utah 84321

Ph: (435) 753-0033

John Stewart or Eve Davies or Roy Hugie

SWCA, INC. ENVIRONMENTAL CONSULTANTS, 56 West 400 South, Suite 201, Salt Lake City, Utah 84101

Ph: (801) 322-4307

Howard Gross or C. Mark Raming

SCIENCE APPLICATIONS INTERNATIONAL CORPORATION (SAIC), 999 18th Street, Suite 855, Denver, Colorado 80202

Ph: (303) 292-2074 Fx: (303) 292-2087

Robert J. Henke, Professional Wetland Specialist

E-mail: [ROBERT.J.HENKE@comx.saic.com](mailto:ROBERT.J.HENKE@comx.saic.com)

SCHLEICHER, CARTER, 4141 Ramsey Circle, Carson City, Nevada 89706

Ph: (702) 323-2226 Fx: (702) 323-3108



SUGNET & ASSOCIATES ENVIRONMENTAL CONSULTANTS, 2260 Douglas Blvd., Ste. 160, Roseville,  
CA 95661 Ph: (916) 782-9100 Fx: (916) 782-9134  
Peter Balfour or Jeff Glazner or Paul Sugnet

SUGNET & ASSOCIATES, 143 Riverview Drive, Durango, Colorado 81301  
Ph: (970) 259-9595 Fx: (970) 259-0050

TEAFORD, J.W. & COMPANY, 1821 Country Club Road, Eufaula, Alabama 36072  
Ph: (334) 688-5005 Fx: (334) 688-5010  
Jim Teaford

TRTECH, INC., P.O. Box 7, Farmington, Utah 84025  
Ph: (801) 451-9714 Fx: (801) 451-9715  
Ted Thatcher

UTAH DEPARTMENT OF TRANSPORTATION, 4501 South 2700 West, P.O. Box 148450,  
Salt Lake City, Utah 84114-8450 Ph: (801) 965-4672 Fx: (801) 965-4564  
Paul West E-mail: [pwest@email.state.ut.us](mailto:pwest@email.state.ut.us)

WENGER ENVIRONMENTAL SERVICES, 247 W. Hillside Drive, Nibley, Utah 84321  
Ph: (435) 753-2692 Fx: (435) 753-2692  
Shaunda K. Wenger E-mail: [skwenger@aol.com](mailto:skwenger@aol.com)

LAND RESOURCES, 96 East 500 South, Logan, Utah 84321  
Ph: (435) 753-4517  
Todd Sherman

WESTERN WETLAND SYSTEMS, 1155 North 1000 East, Orem, Utah 84057  
Ph: (801) 227-0242 Fx: (801) 227-0249  
Leslie Gecy

WHITE HORSE ASSOCIATES, P.O. Box 123, Smithfield, Utah 84335  
Ph: (435) 752-2295 or (435) 563-6100  
Sherman Jensen

WISE EARTH CONCEPTS, P.O. Box 980994, Park City, Utah 84098  
Ph: (435) 615-6724 Fx: (435) 615-6724  
Harriet Whitson E-mail: [wise@parkcity.us.com](mailto:wise@parkcity.us.com)

WOODWARD-CLYDE, 1615 Murray Canyon Road, Suite 1000, San Diego, CA 92108  
Ph: (619) 294-9400 Fx: (619) 293-7920  
William P. Magdych



United States Department of Agriculture  
Rural Development

340 North 600 East  
Richfield, Utah 84701  
(435)896-5489  
FAX (435)896-4819

03/03/99

Ron Mosher, Mayor  
Town of Leeds  
218 North Main  
P.O. Box 460879  
Leeds, Utah 84746-0879

RE: Leeds Wastewater Project

Dear Mayor Mosher:

USDA-Rural Development has started the environmental review process for the Leeds Wastewater Project. We contacted the Fish and Wildlife Service (FWS) regarding the project. They indicate there are a number of Endangered and Threatened Species located in Washington County and may occur in the project area. They have requested a biological assessment be prepared to determine if any of the listed species occur in the area of the project. They also suggest that Dr. Bill Mader, Washington County Habitat Conservation Plan Administrator be contacted to get information on potential habitat and presence of Mojave desert tortoise in the project as well. A copy of the letter from FWS is attached for your reference. This information is being provided to you so you are aware of the requirements of the FWS and so you can work with your engineer in getting this biological assessment completed and to contact Mr. Mader regarding what will need to be accomplished in order to cross potential habitat for the Mojave desert tortoise. Once the biological assessment is completed please return a copy of it to our office so we can send it to the FWS and get a determination from them regarding the project.

If you have any questions, please feel free to give either myself or Hal Nielson a call at (435)896-5489, Extension 22 or 21.

Sincerely,

A handwritten signature in cursive script that reads "John A. Morgan".

JOHN A. MORGAN  
Rural Development Manager  
Area II  
attachment

cc: Karl Rasmussen, Jones and DeMille Engineering

*USDA Rural Development*

*USDA Rural Development is an Equal Opportunity Lender.*

*Complaints of discrimination should be sent to:  
Secretary of Agriculture, Washington, D.C. 20250*



# United States Department of the Interior

## FISH AND WILDLIFE SERVICE

UTAH FIELD OFFICE  
LINCOLN PLAZA  
145 EAST 1300 SOUTH, SUITE 404  
SALT LAKE CITY, UTAH 84115



In Reply Refer To

(CO/KS/NE/UT)

February 22, 1999

John A. Morgan, Rural Development Manager  
U.S.D.A. Rural Development  
25 South 100 East  
P.O. Box 369  
Richfield, Utah 84701

Subject: Endangered and Threatened Species List for Leeds Town Sewer Project,  
Washington County, Utah

Dear Mr. Morgan:

The U.S. Fish and Wildlife Service received your letter dated February 4, 1999 requesting comments on potential threatened and endangered species which may occur in the area of influence of the subject proposed action. The following species occur in Washington County, and may occur in the subject project's area of influence:

<u>Common Name</u>	<u>Scientific Name</u>	<u>Status</u>
Bald Eagle	<i>Haliaeetus leucocephalus</i>	Threatened
Desert Tortoise	<i>Gopherus agassizii</i>	Threatened
Dwarf-Bear Poppy	<i>Arctomecon humilis</i>	Endangered
Holmgren Milkvetch	<i>Astragalus holmgreniorum</i>	Candidate
Mexican Spotted Owl	<i>Strix occidentalis lucida</i>	Threatened
Mountain Plover	<i>Charadrius montanus</i>	Proposed Threatened
Peregrine Falcon	<i>Falco peregrinus</i>	Endangered
Shem Milkvetch	<i>Astragalus eremiticus ampullariodes</i>	Candidate
Siler Pincushion Cactus	<i>Pediocactus sileri</i>	Threatened
Southwestern Willow Flycatcher	<i>Empidonax traillii extimus</i>	Endangered
Virgin River Chub	<i>Gila seminuda</i>	Endangered
Woundfin	<i>Plagopterus argentissimus</i>	Endangered

While candidate species have no legal protection under the Endangered Species Act, we ask that you try to avoid them if they are found in the area.

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

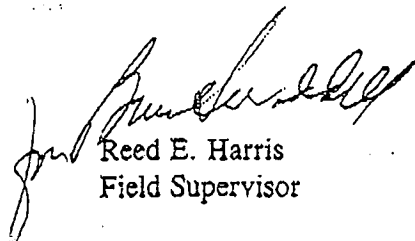
The proposed action should be reviewed and a determination made if the action may affect any listed species or its critical habitat. A determination also should be made if the action is likely to jeopardize a proposed species or result in the destruction or adverse modification of any proposed critical habitat. If the determination is "may affect" for listed species, formal ESA section 7 consultation should be requested by the Federal agency to the Field Supervisor at the address given above. In addition, if a determination is made that the proposed action may jeopardize proposed species or result in the destruction or adverse modification of proposed critical habitat, the Federal agency must confer with this office. At that time, the Federal agency should provide this office with a copy of a biological assessment or any other relevant information that was used in reaching its conclusion.

We suggest you contact Dr. Bill Mader, Washington County Habitat Conservation Plan Administrator, for information regarding potential habitat and presence of Mojave desert tortoise in the project area. In addition, he may also be helpful in providing information about some of the other aforementioned special-status species. He can be reached by telephone at (435) 634-5756.

Your attention is also directed to section 7(d) of the ESA, 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.

If further assistance is needed, please contact Ted Owens, Wildlife Biologist, of this office at telephone (801) 524-5001 extension 144.

Sincerely,



Reed E. Harris  
Field Supervisor



# State of Utah

Department of Community and Economic Development  
Division of State History  
Utah State Historical Society



MAR 10 1999

Michael O. Leavitt  
Governor  
Max J. Evans  
Director

300 Rio Grande  
Salt Lake City, Utah 84101-1182  
(801) 533-3500 FAX: 533-3503 TDD: 533-3502  
ushs@history.state.ut.us http://history.utah.org

March 4, 1999

John A. Morgan  
Rural Development Manager  
Area II - USDA Rural Development  
25 South 100 East  
P. O. Box 369  
Richfield UT 84701

RE: Leeds Town Sewer Project

In Reply Please Refer to Case No. 97-0750

Dear Mr. Morgan:

The Utah State Historic Preservation Office received the above referenced proposal on February 9, 1999. Mr. Morgan, our records indicate that three surveys were completed in 1988 and another survey 1992. Several sites have been located that may be affected by the project. As our office recommended in 1997 to the engineering firm, the Utah Preservation Office recommends a cultural resource contractor be hired to assess the projects potential to affect cultural resources.

This information is provided on request to assist Rural Development with its Section 106 responsibilities as specified in § 36CFR800. If you have questions, please contact me at (801) 533-3555. My email address is: [jdykman@state.ut.us](mailto:jdykman@state.ut.us)

As ever,

James L. Dykman  
Compliance Archaeologist

JLD:97-0750 RD

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