

**LOAN FUNDS
FINANCIAL PROJECTIONS**

	2nd Qtr FY 2016 Oct - Dec 2015	3rd Qtr FY 2016 Jan - Mar 2016	4th Qtr FY 2016 Apr - June 2016	1st Qtr FY 2017 July - Sept 2016	2nd Qtr FY 2017 Oct - Dec 2016	3rd Qtr FY 2017 Jan - Mar 2017	4th Qtr FY 2017 Apr - June 2017	1st Qtr FY 2018 July - Sept 2017	2nd Qtr FY 2018 Oct - Dec 2017	3rd Qtr FY 2018 Jan - Mar 2018	4th Qtr FY 2018 Apr - June 2018	1st Qtr FY 2019 July - Sept 2018
STATE REVOLVING FUND (SRF)												
Funds Available												
SRF - 1st Round (LOC) 2014 Cap Grant	2,849,381	-	-	-	-	-	-	-	-	-	-	-
Less: 2014 Principal Forgiveness Amount	(600,934)	-	-	-	-	-	-	-	-	-	-	-
SRF - 1st Round (LOC) 2015 Cap Grant	6,924,000	-	-	-	-	-	-	-	-	-	-	-
State Match	1,465,154	-	-	-	-	-	-	-	-	-	-	-
SRF - 2nd Round	83,129,002	93,891,297	77,295,447	70,466,579	60,509,038	52,207,077	46,958,192	40,745,110	31,823,296	23,058,407	17,798,419	21,637,710
Interest Earnings at 0.6%	124,694	117,364	96,619	88,083	75,636	65,259	58,698	50,931	39,779	28,823	22,248	27,047
Loan Repayments	-	4,724,786	3,571,513	1,954,376	1,622,402	4,685,856	3,728,221	1,977,254	1,195,332	4,711,189	3,817,043	2,000,965
Total Funds Available	93,891,297	98,733,447	80,963,579	72,509,038	62,207,077	56,958,192	50,745,110	42,773,296	33,058,407	27,798,419	21,637,710	23,665,722
Project Obligations												
Eureka City	-	(400,000)	-	-	-	-	-	-	-	-	-	-
Francis City	-	(1,138,000)	-	-	-	-	-	-	-	-	-	-
Loan Authorizations												
Logan City	-	-	-	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	-	-
Anticipated Projects												
Ammonia Projects	-	-	-	-	-	-	-	-	-	-	-	(13,647,000)
Phosphorus Projects	-	-	-	-	-	-	-	-	-	-	-	(23,377,500)
Bear Lake SSD	-	-	-	(2,000,000)	-	-	-	-	-	-	-	-
Moab City	-	-	(10,497,000)	-	-	-	-	-	-	-	-	-
Payson City	-	(6,900,000)	-	-	-	-	-	-	-	-	-	-
Salem City	-	(13,000,000)	-	-	-	-	-	-	-	-	-	-
Wellington City	-	-	-	-	-	-	-	(950,000)	-	-	-	-
Total Obligations	-	(21,438,000)	(10,497,000)	(12,000,000)	(10,000,000)	(10,000,000)	(10,000,000)	(10,950,000)	(10,000,000)	(10,000,000)	-	(37,024,500)
SRF Unobligated Funds	\$ 93,891,297	\$ 77,295,447	\$ 70,466,579	\$ 60,509,038	\$ 52,207,077	\$ 46,958,192	\$ 40,745,110	\$ 31,823,296	\$ 23,058,407	\$ 17,798,419	\$ 21,637,710	\$ (13,358,778)

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UTAH WASTEWATER LOAN FUND (UWLF)												
Funds Available												
UWLF	\$ 15,270,771	\$ 11,199,092	\$ 12,055,827	\$ 13,887,190	\$ 14,913,873	\$ 15,897,223	\$ 17,190,653	\$ 19,022,015	\$ 20,048,698	\$ 21,032,048	\$ 22,325,478	\$ 24,156,840
Sales Tax Revenue	-	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875	896,875
Loan Repayments	-	789,385	1,274,012	469,333	426,000	736,080	1,274,012	469,333	426,000	736,080	1,274,012	469,333
Total Funds Available	15,270,771	12,885,352	14,226,715	15,253,398	16,236,748	17,530,178	19,361,540	20,388,223	21,371,573	22,665,003	24,496,365	25,523,048
General Obligations												
State Match Transfer	(1,465,154)	-	-	-	-	-	-	-	-	-	-	-
DWQ Administrative Expenses	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)
Project Obligations												
Murray City	(1,110,000)	-	-	-	-	-	-	-	-	-	-	-
Loan Authorizations												
Helper City	(1,157,000)	-	-	-	-	-	-	-	-	-	-	-
Eagle Mountain City - White Hills	-	(490,000)	-	-	-	-	-	-	-	-	-	-
Planned Projects												
None at this time	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligations	(4,071,679)	(829,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)	(339,525)
UWLF Unobligated Funds	\$ 11,199,092	\$ 12,055,827	\$ 13,887,190	\$ 14,913,873	\$ 15,897,223	\$ 17,190,653	\$ 19,022,015	\$ 20,048,698	\$ 21,032,048	\$ 22,325,478	\$ 24,156,840	\$ 25,183,523

**HARDSHIP GRANT FUNDS
FINANCIAL PROJECTIONS**

HARDSHIP GRANT FUNDS (HGF)	2nd Qtr FY 2016 Oct - Dec 2015	3rd Qtr FY 2016 Jan - Mar 2016	4th Qtr FY 2016 Apr - June 2016	1st Qtr FY 2017 July - Sept 2016	2nd Qtr FY 2017 Oct - Dec 2016	3rd Qtr FY 2017 Jan - Mar 2017	4th Qtr FY 2017 Apr - June 2017	1st Qtr FY 2018 July - Sept 2017	2nd Qtr FY 2018 Oct - Dec 2017	3rd Qtr FY 2018 Jan - Mar 2018	4th Qtr FY 2018 Apr - June 2018	1st Qtr FY 2019 July - Sept 2018
Funds Available												
Beginning Balance	\$ -	\$ 4,611,462	\$ 3,562,733	\$ 2,853,873	\$ 2,330,336	\$ 2,460,210	\$ 2,738,189	\$ 3,667,042	\$ 3,128,192	\$ 3,265,482	\$ 3,529,535	\$ 4,392,162
Federal HGF Beginning Balance	5,661,366	-	-	-	-	-	-	-	-	-	-	-
State HGF Beginning Balance	476,792	-	-	-	-	-	-	-	-	-	-	-
2014 Principal Forgiveness Amount	600,934	-	-	-	-	-	-	-	-	-	-	-
Interest Earnings at 0.6%	9,207	5,764	4,453	3,567	2,913	3,075	3,423	4,584	3,910	4,082	4,412	5,490
UWLF Interest Earnings at 0.6%	22,906	13,999	15,070	17,359	18,642	19,872	21,488	23,778	25,061	26,290	27,907	30,196
Hardship Grant Assessments	-	104,451	930,197	402,201	-	201,698	860,685	379,454	-	180,346	787,051	356,178
Interest Payments	-	53,057	216,420	53,335	108,319	53,335	43,257	53,335	108,319	53,335	43,257	53,335
Advance Repayments	1,613,500	-	-	-	-	-	-	-	-	-	-	-
Total Funds Available	8,384,705	4,788,733	4,728,873	3,330,336	2,460,210	2,738,189	3,667,042	4,128,192	3,265,482	3,529,535	4,392,162	4,837,361
Project Obligations												
Blanding City - Planning Advance	(39,900)	-	-	-	-	-	-	-	-	-	-	-
DWQ-Central Utah Pulic Health Dept - Planning Grant	(50,000)	-	-	-	-	-	-	-	-	-	-	-
Eagle Mountain City - White Hills - Construction Grant	-	(580,000)	-	-	-	-	-	-	-	-	-	-
Eureka City - Construction Grant	-	(646,000)	-	-	-	-	-	-	-	-	-	-
Emigration Sewer Imp Dist - Planning Grant	(60,000)	-	-	-	-	-	-	-	-	-	-	-
Francis City - Construction Grant	-	-	(1,875,000)	-	-	-	-	-	-	-	-	-
TriCounty Health Dept. - Planning Grant	(45,000)	-	-	-	-	-	-	-	-	-	-	-
Wellington - Planning Advance	(32,000)	-	-	-	-	-	-	-	-	-	-	-
Planned Projects												
None at this time												
Non-Point Source Project Obligations												
(FY11) Gunnison Irrigation Company	(48,587)	-	-	-	-	-	-	-	-	-	-	-
(FY11) DEQ - Willard Spur Study	(210,559)	-	-	-	-	-	-	-	-	-	-	-
(FY12) UDAF	(798,519)	-	-	-	-	-	-	-	-	-	-	-
(FY13) DEQ - Great Salt Lake Advisory Council	(339,418)	-	-	-	-	-	-	-	-	-	-	-
(FY14) UACD	(47,394)	-	-	-	-	-	-	-	-	-	-	-
(FY15) DEQ - Nitrogen Transformation Study	(150,000)	-	-	-	-	-	-	-	-	-	-	-
FY 2011 - Remaining Payments	(3,800)	-	-	-	-	-	-	-	-	-	-	-
FY 2012 - Remaining Payments	(59,540)	-	-	-	-	-	-	-	-	-	-	-
FY 2013 - Remaining Payments	(89,293)	-	-	-	-	-	-	-	-	-	-	-
FY 2014 - Remaining Payments	(299,672)	-	-	-	-	-	-	-	-	-	-	-
FY 2015 - Remaining Payments	(530,659)	-	-	-	-	-	-	-	-	-	-	-
FY 2016 Allocation	(893,902)	-	-	-	-	-	-	-	-	-	-	-
FY 2017 Allocation	-	-	-	(1,000,000)	-	-	-	-	-	-	-	-
FY 2018 Allocation	-	-	-	-	-	-	-	(1,000,000)	-	-	-	-
FY 2019 Allocation	-	-	-	-	-	-	-	-	-	-	-	(1,000,000)
Non-Point Source Projects in Planning												
*Ammonia Standard Study	(75,000)	-	-	-	-	-	-	-	-	-	-	-
Total Obligations	(3,773,244)	(1,226,000)	(1,875,000)	(1,000,000)	-	-	-	(1,000,000)	-	-	-	(1,000,000)
HGF Unobligated Funds	\$ 4,611,462	\$ 3,562,733	\$ 2,853,873	\$ 2,330,336	\$ 2,460,210	\$ 2,738,189	\$ 3,667,042	\$ 3,128,192	\$ 3,265,482	\$ 3,529,535	\$ 4,392,162	\$ 3,837,361



State of Utah

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Governor

SPENCER J. COX
Lieutenant Governor

Department of
Environmental Quality

Alan Matheson
Executive Director

DIVISION OF WATER QUALITY
Walter L. Baker, P.E.
Director

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Alan Matheson
Walter L. Baker
Executive Secretary

MEMORANDUM

TO: Utah Water Quality Board

THROUGH: Walter L. Baker P.E. 

FROM: Chris Bittner, Water Quality Standards Coordinator

DATE: October 19, 2015

SUBJECT: Request for the Water Quality Board to approve a hardship grant for a maximum of \$75,000 to conduct studies in support of the 2013 USEPA ammonia criteria for Utah waters.

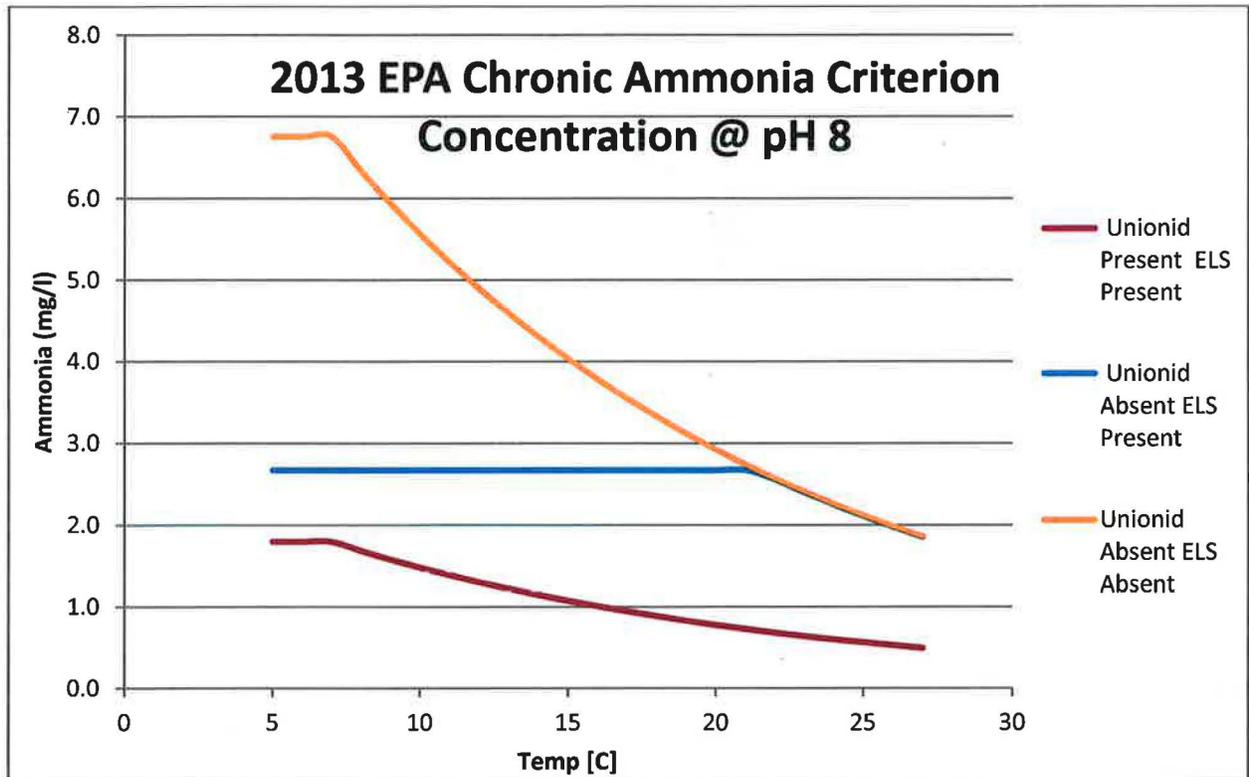
In 2013, EPA published new recommended water quality criteria for ammonia that are significantly more stringent than the existing criteria if certain freshwater unionid mussels and non-pulmonate snails (sensitive species) are present (see Figure below). The more stringent criteria will have costly implications for facilities that discharge ammonia which includes all publically-owned treatment works. However, if the sensitive species are not present in the receiving waters, the resulting ammonia criteria that would be protective may be less stringent than Utah's current criteria.

As the first phase towards adoption of appropriate new ammonia criteria for Utah waters, staff recommends that the historical presence of the sensitive species be determined. This information will be used to determine which Utah waters warrant additional, and more costly, field surveys to determine the current presence or absence of the sensitive species. Staff will return to the Board with a future request if this additional work is warranted. The first phase of this work will be performed jointly with the State of Colorado.

Staff are evaluating competitive proposals to conduct this work after initiating a request for proposals (RFP) with the State Division of Purchasing. These evaluations are currently confidential as required by State purchasing rules. If the Board approves this request, staff will be able to initiate a contract with the contractor providing the most value to the State as selected through the RFP process.

Staff anticipates that the cost for the first phase will be less than \$75,000. The remaining funds will be used for additional related work such as developing a method and making determinations of when early life stages (ELS) of fish are present. The presence or absence of early life stages also significantly influences the ammonia criteria (see Figure below).

Staff requests that the Board approve a Hardship Grant for the Division of Water Quality, up to a maximum of \$75,000 to enter into a contract or contracts for these important studies.





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MEMORANDUM

TO: Utah Water Quality Board
THROUGH: Walter L. Baker, P.E. *WLB*
FROM: Lisa Nelson, P.E. *LN*
Project Manager
DATE: December 7, 2015
SUBJECT: Clarification of the Eagle Mountain-White Hills funding authorization

The purpose of this memo is notify the Water Quality Board (the Board) of errors in the June 25, 2014 Feasibility Report Authorization for Eagle Mountain City and to recommend the Board clarify their intentions, by either amending the minutes or by directing staff to amend the terms of the authorization.

On June 25, 2014 the Board authorized funding to Eagle Mountain City for the construction of a new lift station, pipeline and repair of collection lines to replace the failing lagoon system currently serving the White Hills Subdivision, which was annexed into Eagle Mountain City. As part of the annexation agreement, Eagle Mountain City will not accept responsibility for maintaining this system until such time as it is brought up to the City's requirements.

The estimated project cost was \$1,088,000 and staff recommended a combination of loan and grant. However, on pages 2.4 and 2.8 of the Board's packet, the requested grant and loan amounts were transposed and this error was later incorporated into the approved meeting minutes. The cost model and staff's verbal request was for a \$590,000 grant and a loan of \$498,000 at 0%. The Board decided to attach a 1% interest rate on the loan amount because of the history of deferred maintenance, but the motion did not specify the exact loan and grant amount, thereby creating this discrepancy.

Staff is recommending that the Board amend the June 25, 2014 minutes to reflect authorized funding of a design advance of \$54,000, a grant of \$598,000 and a loan of \$490,000 at 1% with all other conditions remaining in effect.

Enclosures: Feasibility Report from June 25, 2014
New Cost Model

Eagle Mountain - White Hills Collection System Improvement/Replacement Project

Project Costs		Sewer Project	
Engineering-Planning	\$	6,000	
Engineering - Design	\$	54,000	
Engineering - CMS	\$	20,000	
DWQ Loan Fees	\$	5,000	
Legal/Bonding	\$	40,000	
Construction - pump station and force main	\$	713,000	
Construction - repair of collection	\$	74,000	
Repay Planning Advance	\$	18,000	
Contingency	\$	158,000	
Total Project Cost:	\$	1,088,000	

Project Funding			
WQB Loan Amount	\$	490,000	
WQB Grant Amount	\$	598,000	
Total Project Funding:	\$	1,088,000	

Current Expenses			
Total O&M expenses Collection only	\$	8,000	
Existing Debt Service	\$	-	
Wastewater Treatment Annual Expense*	\$	38,295	

Funding Conditions			
Loan Repayment Term (years)		20	
Reserve Funding Period		6	

Current Customer Base & User Charges			
Residential Customers (ERU)		115	
Commercial Customers (ERU)			
Commercial Customers (ERU) ¹		115	
Monthly User Fee (ERU) Treatment Fee	\$	27.75	
Monthly User Fee (ERU) Debt Service	\$	27.99	
Total Monthly User (ERU)	\$	55.74	
Average MAGI for 2011 (Cedar Fort)	\$	47,386	

ESTIMATED COST OF SEWER SERVICE

	WQB Loan Amount	Grant Amount	WQB Interest Rate	WQB Loan Debt Service	WQB Loan Reserve	Total Annual Collection O&M Cost	Total Annual Sewer Collection Cost	Total Monthly Sewer Collection Equivalent Cost/ERU	Total Monthly Eagle Mountain Treatment Cost	Total Monthly Equivalent Cost/ERU	Sewer Cost as a % of MAGI
	\$490,000	\$ 598,000	0.00%	\$24,500	\$6,125	\$8,000	\$38,625	\$27.99	\$27.75	\$55.74	1.41%
¹	\$490,000	\$ 598,000	1.00%	\$27,154	\$6,788	\$8,000	\$41,942	\$30.39	\$27.75	\$58.14	1.47%
	\$490,000	\$ 598,000	2.00%	\$29,967	\$7,492	\$8,000	\$45,458	\$32.94	\$27.75	\$60.69	1.54%
²	\$543,000	\$ 545,000	0.00%	\$27,150	\$6,788	\$8,000	\$41,938	\$30.39	\$27.75	\$58.14	1.47%
	\$598,000	\$ 490,000	0.00%	\$29,900	\$7,475	\$8,000	\$45,375	\$32.88	\$27.75	\$60.63	1.54%
	\$598,000	\$ 490,000	1.00%	\$33,138	\$8,285	\$8,000	\$49,423	\$35.81	\$27.75	\$63.56	1.61%
	\$598,000	\$ 490,000	2.00%	\$36,572	\$9,143	\$8,000	\$53,715	\$38.92	\$27.75	\$66.67	1.69%

¹ Staff's recommendation

² The equivalent grant/loan combination of (1) using a 0% loan by decreasing the grant amount and increasing loan amount.