

UGS BOARD MEETING
Department of Natural Resources
Utah Geological Survey
1594 West North Temple, Suite 3110, Salt Lake City
Wednesday, January 9, 2019

The meeting of the UGS Board was called to order at 8:34 a.m.

ATTENDANCE

Board members: Marc Eckels – Chair, Dave Garbrecht, Ken Fleck, Elissa Richards, Pete Kilbourne

UGS Staff: Mike Hylland, Jodi Patterson, Cheryl Gustin

Apologies: Sam Quigley, Rick Chesnut, and Tom Faddies

Board Member Tenure

Elissa Richards, Ken Fleck, and Sam Quigley have completed required paper work for application to serve another term on the board. Governor approval pending.

Introduction of New Employees

Bill Keach replaced Rick Allis as the new Director/State Geologist, Jen Miller replaced Vicky Clarke as Publications Manager, Jenny Erickson replaced Jen Miller as Graphic Designer, Elliot Jagniecki replaced Craig Morgan as Oil and Gas Senior Geologist, Ryan Gall replaced Mark Gwynn as Geologist, Stephanie Mills replaced Ken Krahulec as Metals Geologist. All were introduced to the Board.

APPROVAL OF MINUTES

Pete Kilbourne motioned to approve the minutes of the August 22, 2018, UGS Board meeting as written. Ken Fleck seconded the motion. The Board voted, and the motion carried.

Director's Report

Summary

The new year marks the 70th anniversary of the Utah Geological Survey (UGS), and is already notable for seeing the retirement of our longest-serving Director/State Geologist, and the hiring of our first female Ph.D. employee.

Marc Eckels questioned if there was any sort of a celebration planned for the anniversary. Mike Hylland responded by saying any formal celebration will likely be deferred until possibly the UGS's 75th anniversary.

Mike Hylland continued with his report. Although our budget remains relatively stable, concerns remain regarding low Mineral Lease revenue and uncertainties associated with external funding sources. Inclusion of a requested FY20 building block in the Governor's budget recommendations is encouraging, but brings a challenge in having to generate 50% of the requested funding internally.

Financial Update

Jodi Patterson continued with the financial update. Low revenues from Mineral Lease royalties continues to be a concern, with the main factor being less production on federal lands (which generate the royalties). Mike Vanden Berg reports that November Mineral Lease revenue to the UGS came in about 10% higher than predicted, making for three relatively strong months in a row. However, there has been significant volatility in the energy markets recently, with oil prices dropping below \$50 in December. On the positive side, crude oil production in the Uinta Basin has recovered faster than expected from the declines seen in the early summer due to the HollyFrontier refinery fire. Production increased in July and August, helping make up for the loss in value from dropping prices. Mike's current forecast of Mineral Lease revenue to the UGS for FY19 is \$1.4 million, up slightly from a revised forecast of \$1.35 million earlier in the fall. For comparison, Mineral Lease revenues to the UGS were \$1,488,862 in FY18 and \$1,603,100 in FY17.

Marc Eckels discussed the possibility of replacing Mineral Lease payments and receiving funding from the General Fund. Once Bill Keach is here Marc would like to further explore this possibility and have a discussion as to how to possibly make that happen.

Financial documents in the Board packet include the FY19 UGS operating budget summary (through November 2018), the FY19 Mineral Lease revenue summary, and the contracts monitoring summary. The UGS is currently forecasting a 2019 fiscal year surplus of approximately \$415k. We started FY19 with a carry-forward from last fiscal year (2018) of \$521,584, so we are currently estimating a net decrease of just over \$100k. It is important to sustain the carry-forward balance in the range of \$500,000 to \$1 million to accommodate large unexpected funding swings.

November represents 42% of the fiscal year completed. Total percentage of outside revenue billed is about 38%; this is in line with expenditures to date at 37.7%. After December's financials, we will conduct a mid-year, detailed review of project and operating budgets and make forecast adjustments as necessary. Typically, the outside revenue estimate decreases by about \$100k.

Marc Eckels questioned if there were any concerns over large invoices being overdue. Jodi Patterson stated Account Receivables are current, and she has not had any problems submitting payments with the federal government shut down.

Marc Eckels asked why the FY20 USGS earthquake hazard proposals were not funded. Mike Hylland explained that funding for the annual Earthquake Working Group meetings has recently switched to a competitive basis, and he is unsure why the proposal was not funded. The other proposal, for fault trenching, could probably be resubmitted with a strengthened technical approach.

Mike continued with the Director's Report.

Personnel Changes

In the Geologic Information and Outreach program, Jenny Erickson has been hired as a Graphic Arts Specialist/Web Designer. Jenny fills the vacancy in the Editorial Section that was created when Jen Miller was promoted to Publications Manager following Vicky Clarke's retirement in September.

In the Groundwater program, Lindsey Smith resigned his position in the Wetlands section to take a private-sector job in Texas. The open Wetlands Mapper position is being advertised at the time of this writing.

In the Energy and Minerals program, Ken Krahulec retired after 14 years with the UGS. To retain expertise in the field of metallic mineral resources, an offer was extended to, and accepted by, Stephanie Mills, who will begin employment as the new UGS Metals Geologist on January 14. Stephanie completed her B.S. in geosciences at the University of Texas, Austin, in 2009, and her doctorate in geosciences at Monash University in Melbourne, Australia, in 2013. Her dissertation focused on gold deposits in China. Since 2013 Stephanie has worked as a metals exploration geologist for Fortescue Metals Group, Rio Tinto Exploration, and Barrick Gold Corporation.

UGS Administration saw two retirements at the end of 2018: Pam Perri and Rick Allis. Pam was the UGS Administrative Assistant and had been with the UGS six years. We will defer filling the vacant Administrative Assistant position until after the new director has a chance to evaluate administrative support needs. In the meantime, we have distributed Administrative Assistant duties between our two program secretaries (Cheryl Gustin and Starr Soliz), with our Accounting Technician (Linda Bennett) and Financial Manager (Jodi Patterson) providing back-up as needed.

Rick Allis retired after 18 years of service as UGS Director/State Geologist. In retirement, Rick will transition to a volunteer Emeritus Geoscientist position with the UGS, coordinating formal publication of FORGE Phase II research in a UGS Miscellaneous Publication (14 individual papers by both UGS and outside authors). Working with Beaver County, Rick will also help develop informational signage for the renewable energy corridor near Milford.

Bill Keach has accepted the appointment as the UGS's seventh Director/State Geologist. Bill is a scientist, educator and technology expert with 30+ years' experience in industry, academia and regulatory state government. Following degrees in geology (B.S., BYU) and geophysics (M.S., Cornell), Bill spent 5+ years exploring for hydrocarbons with SOHIO/BP in California and offshore Gulf of Mexico. He then joined Landmark Graphics (now Halliburton) where he spent 17 years in a variety of roles traveling the world developing 3D visualization technology and adoption. He returned to Utah in 2006 taking roles at both the Energy and Geoscience Institute (University of Utah) and BYU doing research and teaching courses on seismic interpretation and reservoir modeling. In 2017 he accepted a role with California's Division of Oil, Gas, and Geothermal Resources to evaluate reservoirs and bring technology into the division. While in California he has continued his adjunct appointments with the University of Utah (Chemical Engineering) and BYU to satisfy his passion for teaching. Bill is anticipating a mid-January start date with the UGS. Until then, Mike Hylland will serve as Acting Director.

Hellmut Doelling was recognized with a Distinguished Service Award at the annual DNR awards ceremony in December. Combining his employment and volunteer time as a draftsman, geologic mapper, and program manager, Hellmut has provided 65 years of service to the UGS. In October, at the age of 88, Hellmut led a two-day field review of what will likely be his last geologic mapping project, covering the west half of the Salina 30' x 60' quadrangle.

Building Block Requests

The UGS FY20 incremental budget (building block) request for \$120k (ongoing) to fund geologic data coordination was included in the Governor's budget recommendations. Our request was for 100% General Funds; however, GOMB changed the funding structure to \$60k General Funds and \$60k Dedicated Credits (i.e., restricted funds and fee collections). We have followed up with our Legislative Fiscal Analyst to express concern about our ability to shift funds internally to cover the Dedicated Credits funding requirement, and will include appropriate discussion in our presentation to the Natural Resources, Agriculture, and Environmental Quality Appropriations Subcommittee during the 2019 legislative session.

We will continue to position ourselves for a future building block request for funding to expand the Utah Core Research Center. As discussed at the last Board meeting, recent donations have filled the facility, and lower-priority material is being temporarily housed in a Clearfield warehouse. A solution that best meets the needs of users is an expansion of warehouse space by 9000 sq ft, and a 3000 sq ft area for improved core layout and examination. It is recognized that this request may take several years to progress.

Additional Governor's Budget Recommendations FY2020

- \$481,400 One-time, Dedicated Credits, FY19 Supplemental. This is to increase the original FY19 appropriation for increased revenue estimates.
- \$314,700 One-time, Dedicated Credits, FY20. This is to increase the original FY19 appropriation base budget which is the starting point for FY20 for increased revenue estimates.
- Compensation: The Governor has recommended: 2.5% COLA, 4.35% Health Insurance Increase, Targeted Increases (for UGS this includes the Financial Manager II and the Senior GIS Analyst), Unemployment Rate Change, and Workers Compensation Rate Change.

Proposed Fee Change

As required by 63J-1-504 (4)(a), "Each fee agency that is proposing a new fee or proposing to change a fee shall: (a) present each proposed fee at a public hearing, subject to the requirements of Title 52, Chapter 4, Open and Public Meetings Act."

The UGS is proposing the following fee change to be presented at the 2019 General Session of the State Legislature. There were previously two Geologic Hazards, School Site Review fees. We propose consolidating the two fees into one, renaming it, and increasing the amount slightly to reflect increases in compensation costs over the years.

Current:

Review of Geologic Hazards Report for New School Site, \$500 plus travel

Preliminary Screening of a Proposed School Site, \$550 plus travel

Proposed:

School Site Review, \$575 plus travel

There were no members from the public present and no comments on the proposed fee change.

Legislative Update

Currently no bills or issues that could impact the UGS have been identified. We will continue to request approved intent language that allows us to save Mineral Lease revenue in above-average years to cover revenue shortfalls in below-average years. The goal is to build a Mineral Lease carry-forward balance of about \$1 million.

Contract Proposals

Enclosed in the Board meeting materials is the Contract Proposal spreadsheet from 2016 forward. This is a good indicator of how successful the UGS is in obtaining external funding, both through federal funds and dedicated credits, and what's on the horizon. Unfortunately, two of the three USGS National Earthquake Hazards Reduction Program (NEHRP) grant applications were not funded, and the third is on hold. In addition to the contracts listed below for approval, we also received a new contract from SITLA for Oil and Gas Research for \$30,000.

ACTION ITEM

Although contract proposals for external funding are provisionally approved by the Board by email, they are required to be formally approved at the next Board meeting. The following proposals were approved by the Board between their August 22nd, 2018, meeting and the present meeting:

National Groundwater Monitoring Network; funding from USGS; new funding to UGS \$10,549, total project cost \$21,098; estimated start 10/1/2019, estimated project end 9/29/2020.

Utah 2019 STATEMAP Geologic Mapping; funding from USGS; new funding to UGS \$300,000 requested (anticipate about \$165,000 to be awarded), total project cost \$600,000 (anticipate will be reduced to about \$340,000 after award); estimated start 7/1/2019, estimated project end 6/30/2020.

Mid Mesozoic at Northern Capitol Reef National Park; funding from BLM; new funding to UGS \$25,000, total project cost \$50,000; estimated start 4/1/2019, estimated project end 6/30/19.

Utah Mineral Information Development (Phase 2); funding from BLM; new funding to UGS \$50,000, total project cost \$55,000; estimated start 10/1/2018, estimated project end 6/30/2020.

Elissa Richards motioned to approve the above proposals. Dave Garbrecht seconded. Board voted, and motion carried.

Suggested Dates for FY19-20 Board Meetings

Wednesday, May 8, 8:30–11:30 (main topics: (1) review budget implications of 2019 legislative session, (2) select Crawford Award winner)

Wednesday, August 21, 8:30–11:30 (main topic: financial close-out of FY19)

September 13–15 (Board field trip, proposed destination: northwestern Utah/Great Salt Lake Desert)

Wednesday, January 8, 2020, 8:30–11:30 (main topics: (1) prepare for legislative session, (2) review mid-year financials)

Presentations:

Mike Vanden Berg, Elliot Jagniecki, and Andrew Rupke presented Energy and Minerals Program updates.

Hugh Hurlow gave a Groundwater and Wetlands Program summary.

ACTION ITEM

Marc Eckels and Pete Kilbourne volunteered to continue their roles as Chair and Vice Chair for another year.

Pete Kilbourne motioned for Marc Eckels to continue as Chair. Ellisa Richards seconded the motion. Board voted and motion carried.

Dave Garbrecht motioned for Pete Kilbourne to continue as Vice Chair. Ken Fleck seconded motion. Board voted and motion carried.

Marc Eckels adjourned at 11:10 am.

Next Meeting: Wednesday, May 8, 2019.

UTAH GEOLOGICAL SURVEY BUDGET ANALYSIS FOR SFY 2019

THROUGH NOVEMBER FY19

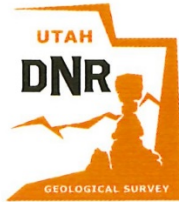
	Appropriated Budgets (Ties to Approp)	Current Month Revisions	YTD Revisions	Operating Budgets	YTD Revenue & Expenditures	Forecasted Year End	Difference Forecasted & Budgeted
Revenues							
General Fund	4,365,400	0	0	4,365,400	4,365,400	4,365,400	0
Mineral Lease	1,573,800	47,000	(173,800)	1,400,000	678,930	1,400,000	(0)
Land Exchange Distribution	21,100	0	10,000	31,100	8,401	31,100	0
Dedicated Credits	576,900	0	434,132	1,011,032	251,253	1,011,033	0
Federal Funds	775,200	2,744	(674)	774,526	239,802	774,526	0
Transfers	0	0	0	0	0	0	0
Non-Lapse	750,000	0	(228,416)	521,584	521,584	521,584	0
Total Revenues:	8,062,400	49,744	41,242	8,103,642	6,065,370	8,103,643	0
Expenditures							
Personnel	6,783,200	0	(112,438)	6,670,762	2,527,469	6,632,715	38,047
In-State Travel	50,000	0	16,279	66,279	28,128	65,377	902
Out-of-State Travel	18,300	0	22,899	41,199	9,646	31,917	9,282
Current Expense	512,400	1,487	13,723	526,123	216,469	534,981	(8,858)
DP Current Expense	347,800	0	6,342	354,142	108,686	353,244	898
DP Capital Expense	0	0	0	0	0	0	0
Other Capital Expense	0	0	0	0	0	0	0
Other/Pass-through	350,700	0	(279,999)	70,701	36,253	70,701	0
Total Expenses:	8,062,400	1,487	(333,194)	7,729,206	2,926,652	7,688,935	40,271
Difference:	0	48,257	374,437	374,437	3,138,718	414,708	FORECAST

STATE FUNDED - Monthly Expenditures

UGS-ROLLUP	Authorized Budget	Expenditures Year to Date	Unexpended Budget	% Expended	*Nov. YTD Payroll represents 38.47% FY (thru ppe 11/15/18)						
					July 2018 8%	August 2018 17%	September 2018 25%	October 2018 33%	November 2018 42%	December 2018 50%	Total 100%
Personal Services	5,276,695	2,084,552	3,192,142	39.50%	217,676	413,215	405,672	424,859	623,131	0	2,084,552
In-State Travel	27,344	9,511	17,833	34.78%	112	8,213	6,947	8,174	(4,857)	(9,078)	9,511
Out-of-State Travel	29,539	6,795	22,744	23.00%	1,809	2,470	292	2,165	948	(888)	6,795
Current Expenses	371,391	165,148	206,243	44.47%	24,366	29,720	63,643	23,477	26,462	(2,520)	165,148
DP Current Expenses	354,142	108,498	245,644	30.64%	26,251	19,343	24,539	18,117	20,249	0	108,498
DP Capital Outlay	0	0	0	0.00%	0	0	0	0	0	0	0
Contracts/Pass Thru	9,573	0	9,573	0.00%	0	0	0	0	0	0	0
Totals:	6,068,684	2,374,505	3,694,179	39.13%	270,214	472,960	501,092	476,792	665,933	(12,486)	2,374,505

GRANT FUNDED - Monthly Expenditures

	Authorized Budget	Expenditures Year to Date	Unexpended Budget	% Expended	July 2018 8%	August 2018 17%	September 2018 25%	October 2018 33%	November 2018 42%	December 2018 50%	Total 100%
Personal Services	1,394,069	442,917	951,152	31.77%	26,947	80,168	97,588	85,545	152,669	0	442,917
In-State Travel	38,935	9,539	29,396	24.50%	573	769	1,431	3,714	3,053	0	9,539
Out-of-State Travel	11,660	1,963	9,697	16.84%	0	0	0	1,556	407	0	1,963
Current Expenses	145,159	48,801	96,358	33.62%	43,219	(32,040)	10,054	13,381	14,188	0	48,801
DP Current Expenses	0	188	(188)	0.00%	0	188	0	0	0	0	188
DP Capital Outlay	0	0	0	0.00%	0	0	0	0	0	0	0
Contracts/Pass Thru	70,701	36,253	34,448	51.28%	0	36,253	0	0	0	0	36,253
Totals:	1,660,524	539,662	1,120,862	32.50%	70,739	85,338	109,072	104,196	170,317	0	539,662
Combined Total/Check:	7,729,208	2,914,166	4,815,041	37.70%	340,953	558,298	610,164	580,988	836,250	(12,486)	2,914,166

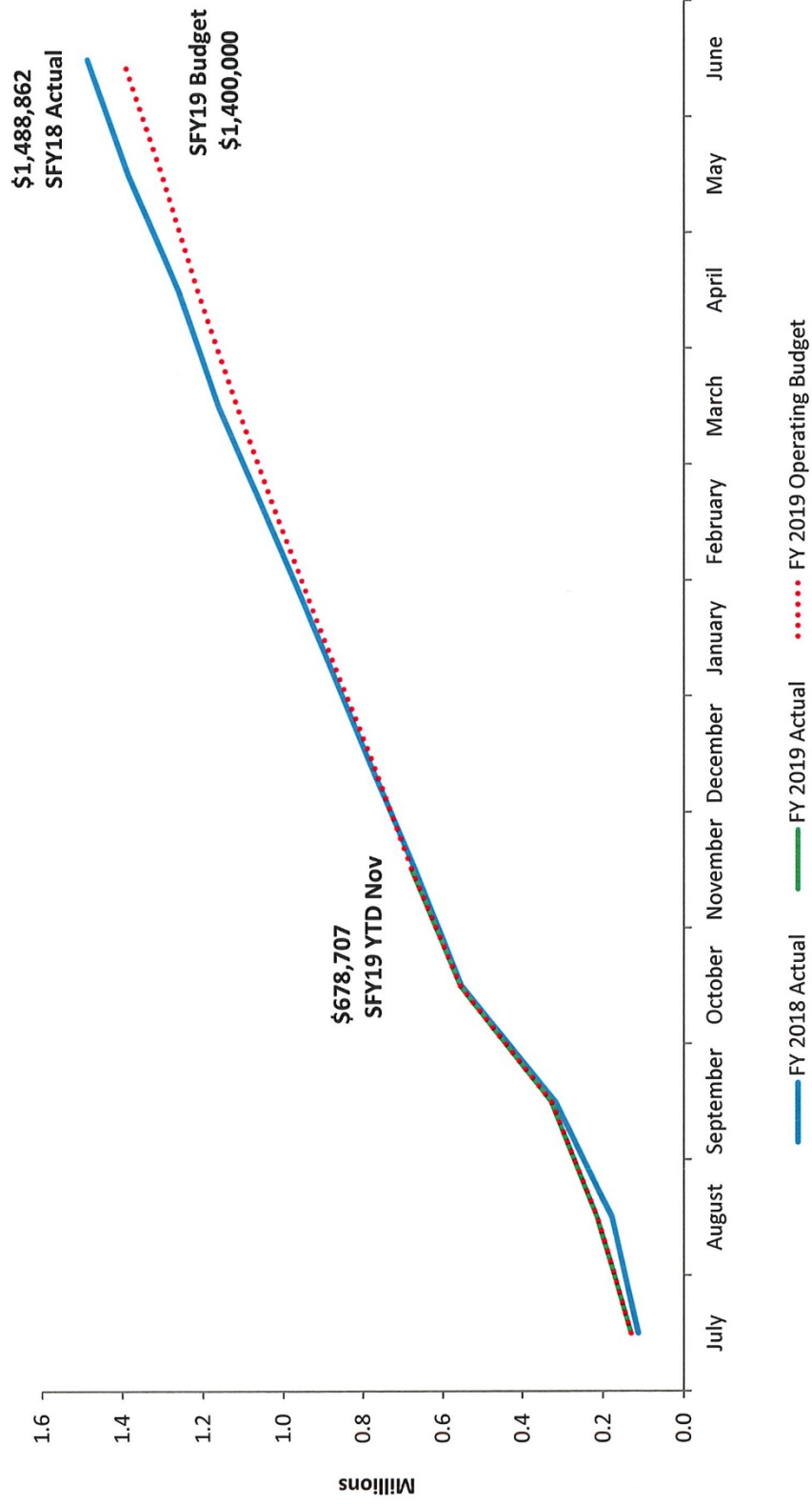


Regular Mineral Lease Funds
Received for FY 2019

July	130,617.82
August	83,381.94
September	114,308.55
October *	228,338.34
November	122,060.19
December	
January	
February	
March	
April	
May	
June	
 FY 2019	 678,706.84

* \$126,169.34 October + \$102,169 last year's sequester return.

Mineral Lease Collections as of 11/30/18





CONTRACT PROPOSALS
2016 FORWARD
BY UGS PROGRAMS

As of 12/17/18

Closed
Active
Pending or Changes

SUBMITTAL DATE	SUBMITTING PROGRAM	STATUS	PROJECT CODE	PROJECT SHORT TITLE/DESCRIPTION	GRANTOR-FUNDING	AMOUNT OF PROPOSAL	AMOUNT TO UGS	CONTRACT PERIOD	AWARDED ?
1/16	ENERGY & MINERALS		UDBM	DRILL HOLE DATA PRESERVATION, UTAH	U.S. BLM	158,138	158,138	2/16-1/2021	Y
1/16	ENERGY & MINERALS		UGNM	TULAROSA NEW MEXICO GEOTHERMAL EXPIRATION	UoU/EGCI	40,000	40,000	9/16-6/17	Y
1/16	ENERGY & MINERALS		UGUT	GEOTHERMAL EASTERN GREAT BASIN, UT	UoU/EGCI	66,667	60,000	7/16-6/17	Y
2/16	ENERGY & MINERALS		UNSC	NORTH ARM SALT CRUST MONITORING GREAT SALT LAKE	DNR FFSL	8,833	7,235	7/16-6/17	Y
3/16	ENERGY & MINERALS	N/A		GEOLGIC CHARACTERIZATION & FACIES ANALYSIS OF GSL MICROBIOLAKITES & ASSOCIATED SEDIMENTS	DNR FFSL	62,992	40,794	7/16-6/17	N
4/16	ENERGY & MINERALS		UDMC	DEVELOPING A GEO-DATABASE OF UTAH'S PAST COAL MINES & MAPPING OVERBURDEN	U.S. OFFICE OF SURFACE MINING	50,000	50,000	9/16-8/17	Y
8/16	ENERGY & MINERALS		UCS1	CARBONSAFE ROCKY MOUNTAINS PHASE I	UoU/EGCI	218,209	174,567	1/17-6/18	Y
8/16	ENERGY & MINERALS		UDOD	DOD COMMUNITY SITING GRANT	UT Office of Energy Development	25,516	25,516	1/17-12/19	Y
3/17	ENERGY & MINERALS	N/A		MAPPING THE FLOOR OF GREAT SALT LAKE USING BATHYMETRIC LIDAR	DNR FFSL	92,200	73,760 (50,000 pass-thru)	5/17-6/18	N
1/16	ENERGY & MINERALS		UGUT	GEOTHERMAL EASTERN GREAT BASIN - PHASE III	UoU/EGCI	33,333	30,000	10/17-9/18	Y
7/17	ENERGY & MINERALS		UMID	UTAH MINERAL INFORMATION DEVELOPMENT	BLM	62,500	50,000	9/17-9/18	Y
8/17	ENERGY & MINERALS			GEOLGIC & ENGINEERING INVESTIGATION INTO THE DEVELOPING WASATCHFLAGSTAFF PLAY	EGCI/Newfield	192,000	160,000	9/17-9/19	N
2/18	ENERGY & MINERALS	N/A	UCS2	CARBONSAFE ROCKY MOUNTAINS PHASE I	UoU/EGCI	250,000	200,000	8/18-7/20	N
8/18	ENERGY & MINERALS		UMI2	UTAH MINERAL INFORMATION DEVELOPMENT - PHASE II	BLM	55,000	50,000	10/18-6/20	Y
10/18	ENERGY & MINERALS		USOG	SITLA OIL AND GAS RESEARCH	SITLA	30,000	30,000	10/18-6/19	Y
2/16	GROUND WATER		UAHR	ASSESSMENT OF HABITAT REQUIREMENTS, HABITAT ABUNDANCE AND THREATS FOR TWO DECLINING AMPHIBIAN SPECIES	DNR-ESMF	14,288	10,671	7/16-6/17	Y
2/16	GROUND WATER		UWLS	WESTERN USA ASSESSMENT OF HIGH VALUE MATERIALS IN GEOTHERMAL AND PRODUCED FLUIDS	UoU/EGCI	82,071	73,864	7/16-7/18	Y
2/16	GROUND WATER		UFWR	VERIFYING U.S. FOREST SERVICE WATER RIGHTS IN THE UTAH LAKE DRAINAGE BASIN	USDA FOREST SER.	63,365	50,050	4/16-4/17	Y
2/16	GROUND WATER		UHMW	HYDROLOGIC MONITORING & MAPPING OF CRITICAL SPRING FED WETLAND HABITAT (continuation)	DNR-ESMF	19,888	14,916	7/16-6/17	Y
3/16	GROUND WATER		URVW	HYDROGEOLOGIC STUDY OF ROUND VALLEY (1 YEAR)	WASATCH COUNTY	59,983	29,992	7/16-6/17	Y
3/16	GROUND WATER	N/A		HYDROGEOLOGIC STUDY OF ROUND VALLEY (2 YEAR)	WASATCH COUNTY	201,751	100,000	7/16-6/18	N
3/16	GROUND WATER		UWRI	MONITORING GW RESPONSE TO PINYON & JUNIPER TREATMENTS FOR SAGE GROUSE ECOSYSTEM RESTORATION & FIRE HAZARD REDUCTION	UWRI & DEQ UDWQ	332,662	260,997	7/16-6/20	UWRI - Y; DEQ - N
4/16	GROUND WATER		UWNA	NATIONAL WETLANDS CONDITIONS ASSESSMENT	DEQ-DIV WATER QUALITY	47,000	47,000	6/16-5/16	Y
5/16	GROUND WATER		UNG2	NATIONAL GROUNDWATER MONITORING NETWORK PHASE 2	USGS	69,839	34,920	7/16-6/18	Y
5/16	GROUND WATER		UW17	DEVELOPING CAPACITY TO BUILD A SUSTAINABLE WETLAND & RIPARIAN MAPPING PROGRAM	EPA	264,231	198,173	10/16-6/19	Y
5/16	GROUND WATER		UW16	REFINING ASSESSMENT TOOLS TO INCREASE AMOUNT & UTILITY OF WETLAND INFO	EPA	297,466	233,099	10/16-6/19	Y
6/16	GROUND WATER		ULOG	WATER WELL CUTTING LOGGING FY 2017	DIVISION OF WR	32,000	16,000	7/16-6/17	Y
6/16	GROUND WATER		UTWQ	QUANTIFYING TRENDS IN WATER QUALITY FROM SELECTED WELLS IN UTAH	DEQ-DIV WATER QUALITY	8,100	4,050	10/16-9/18	Y
6/16	GROUND WATER	N/A		INVESTIGATING SURFACE BASED ACQUIFER STORAGE-MOUTH OF GREEN CANYON, NO. LOGAN	CACHE CO.	52,915	26,457	7/16-6/18	N
6/16	GROUND WATER		UWR2	MONITORING GW RESPONSE TO JUNIPER	UDWQ	7,219	7,219	7/16-6/17	Y
7/16	GROUND WATER		UMCV	CASTLE VALLEY WATER QUALITY MONITORING FY17	GRAND CO.	7,224	3,612	9/16-6/17	Y
9/16	GROUND WATER		UMSW	REMOTE MONITORING OF SHALLOW GROUNDWATER WELLS	DNR-DWR	5,000	5,000	10/16-10/17	Y
11/16	GROUND WATER		UDRA	DUCHESE RIVER AERIAL IMAGERY EVALUATION	DNR-DWR	28,200	28,200	5/17-6/18	Y
12/16	GROUND WATER		UWWR	VERIFYING U.S. FOREST SERVICE WATER RIGHTS IN THE UTAH LAKE DRAINAGE BASIN - PHASE2	USDA FOREST SER.	66,465	50,000	5/17-6/18	Y
1/17	GROUND WATER		UNG3	NATIONAL GROUNDWATER MONITORING NETWORK PHASE 3	EPA	64,142	32,071	7/17-7/19	Y
2/17	GROUND WATER		UWQC	MAPPING GROUNDWATER QUALITY & CHEMISTRY ADJOINING THE GREAT SALT LAKE	DNR-FFSL	25,000	25,000	7/17-6/18	Y
2/17	GROUND WATER		UTV2	MONITORING GROUNDWATER RESPONSE TO PINYON & JUNIPER TREATMENTS (YEAR 2)	UT WATERSHED RESTORATION INITIATIVE	67,298	50,473	7/17-6/18	Y
2/17	GROUND WATER		UCSF	HYDROLOGIC MONITORING & MAPPING OF CRITICAL SPRING-FED WETLAND HABITAT	DNR-ESMF	18,662	13,997	7/17-6/18	Y
2/17	GROUND WATER		UAAD	IMPROVING ASSESSMENT OF THREATS TO AMPHIBIANS THROUGH COMPIATION OF HABITAT & RANGE DATA	DNR-ESMF	14,843	11,132	7/17-6/18	Y
3/17	GROUND WATER		UWPP	FORWARD MODELING OF WELL PUMPAGE FROM THE BLOOMINGTON FORMATION	DNR-WATER RIGHTS	4,987	2,493	4/17-5/17	Y
5/17	GROUND WATER		UTC2	MONITORING GW RESPONSE TO WESTERN JUNIPER TREATMENTS, TINTIC VALLEY-GEOCHEMICAL SAMPLING (YR 2)	DEQ-DIV WATER QUALITY DNR-DWR & TOWN OF CASTLE VALLEY	10,000	7,500	7/17-6/18	Y
6/17	GROUND WATER	N/A		CASTLE VALLEY TRACER STUDY		54,883	27,441	8/17-6/18	N
6/17	GROUND WATER		ULOG	WATER WELL CUTTING LOGGING FY 2018	DIVISION OF WR	32,000	16,000	7/17-6/18	Y



CONTRACT PROPOSALS
2016 FORWARD
BY UGS PROGRAMS

As of 12/17/18

Closed
Active
Pending or Changes

SUBMITTAL DATE	SUBMITTING PROGRAM	STATUS	PROJECT CODE	PROJECT SHORT TITLE/DESCRIPTION	GRANTOR-FUNDING	AMOUNT OF PROPOSAL	AMOUNT TO UGS	CONTRACT PERIOD	AWARDED ?
8/17	GROUND WATER	N/A		AQUIFER STORAGE & RECOVERY FEASIBILITY FOR RICHMOND CITY	RICHMOND CITY	34,681	17,341	10/17-6/19	N
8/17	GROUND WATER	N/A		JUAB VALLEY WATER BUDGET (3 YEAR PROJECT)	DNR/DWR	257,389	128,695	9/17-8/20	N
8/17	GROUND WATER		UWTV	MONITORING GROUNDWATER WELLS IN TULE VALLEY	DWR/BLM	25,000	25,000	10/17-9/19	Y
8/17	GROUND WATER	N/A		MONITORING THE EFFECTS OF PINYON JUNIPER TREATMENTS ON SPRING FLOW & AQUATIC VEGETATION	BLM	154,437	115,825	9/2017-9/2022	N
8/17	GROUND WATER	N/A		EMIGRATION CREEK SEPTIC DISCHARGE STUDY	DEQ	71,052	35,526	1/18-6/19	N
9/17	GROUND WATER		UMCV	CASTLE VALLEY GW QUALITY WELL MONITORING	CASTLE VALLEY	7,412	3,706	10/17-6/18	Y
9/17	GROUND WATER		UWLH	REMOTE MONITORING OF GROUNDWATER WELLS IN SNAKE VALLEY - LELAND HARRIS	DNR/DWR	4,987	4,987	10/17-9/19	Y
11/17	GROUND WATER		UNG4	NATIONAL GROUND WATER MONITORING NETWORK 2018	USGS	20,595	20,595	7/18-6/20	Y
3/18	GROUND WATER	N/A		MONITORING GW RESPONSE TO PINYON & JUNIPER TREATMENTS (Year 2)	Utah Watershed Restoration Initiative (UWRI)	50,093	37,569	4/18-6/18	N
3/18	GROUND WATER		UHCM	HYDROLOGIC MONITORING OF CRITICAL GROUNDWATER FED HABITAT	DNR-ESMF	19,974	14,981	7/18-6/2019	Y
3/18	GROUND WATER		UDNA	FILLING DATA GAPS FOR NATIVE AQUATICS	DNR-ESMF	18,250	13,688	7/18-6/2019	Y
4/18	GROUND WATER	N/A	UBCW & UBCN	WATER QUALITY MONITORING OF JUNIPER TREATMENT PROGRAM YEAR 3	DIVISION OF WATER QUALITY	19,992	14,994	7/18-6/19	N
5/18	GROUND WATER		UMCV	HYDROGEOLOGIC STUDY OF BRYCE CANYON CITY AREA & EMERY VALLEY, GARFIELD COUNTY	DNR-DWRI & NPS	285,472	142,736	7/18-12/21	Y
5/18	GROUND WATER		UWR3	CASTLE VALLEY GW QUALITY WELL MONITORING	CASTLE VALLEY	8,700	4,350	7/18-6/19	Y
5/18	GROUND WATER		UW19	MONITORING GW RESPONSE TO PINYON & JUNIPER TREATMENTS (Year 3)	Utah Watershed Restoration Initiative (UWRI)	132,528	99,396	7/18-6/19	Y
5/18	GROUND WATER		UW18	ENHANCED ATTRIBUTION OF WETLANDS SPATIAL DATA - MAPPING WETLAND FUNCTION IN CACHE COUNTY	EPA	253,980	190,485	1/19-6/2021	Y
5/18	GROUND WATER		UW18	REFERENCING NETWORK & BASELINE DATA TO IMPROVE PROTECTION OF UTAH'S CENTRAL BASIN WETLANDS	EPA	292,893	219,670	1/19-6/2021	Y
6/18	GROUND WATER		UW18	WATER WELL CUTTING LOGGING FY 2019	DIVISION OF WR	32,000	16,000	7/18-6/19	Y
12/18	GROUND WATER			NATIONAL GROUNDWATER MONITORING NETWORK	USGS	21,098	10,549	10/19-09/20	?
1/16	HAZARDS		UDP8	2016 UGS GEOLOGIC DATA PRESERVATION PROJECT	USGS	120,000	60,000	7/16-6/17	Y
3/16	HAZARDS	N/A	UWFC	COMMON DATA FRAMEWORK FOR DISASTER RESILIENCE	ARIZONA G.S.	24,989	24,989	10/16-10/18	N
5/16	HAZARDS		UCFM	LIDAR MAPPING OF THE WASATCH & WEST VALLEY FAULT ZONES	USGS	84,293	42,146	12/16-1/17	Y
5/16	HAZARDS		ULFT	LIDAR MAPPING OF THE EAST & WEST CACHE VALLEY FAULT ZONES	USGS	71,515	50,046	7/17-6/18	Y
5/16	HAZARDS		ULFT	PALEOSEISMIC TRENCHING INVESTIGATION OF THE LEVAN & FAYETTE SEGMENTS OF THE WFZ	USGS	115,017	57,508	5/17-4/18	Y
5/16	HAZARDS	N/A		CITIZEN PROVIDED OBSERVATION & EARTH HAZARDS DIGITAL CLEARING HOUSE PROTOTYPE	NASA	647,322	647,322 (212,459 pass-fbnu)	10/16-6/19	N
6/16	HAZARDS	N/A		ALLUVIAL FAN INVENTORY ALONG THE WASATCH FRONT & WEST SIDE OF THE OQUIRRH MTNS	UDEM	20,000	20,000	8/16-12/16	N
11/16	HAZARDS	N/A		2017-2018 UTAH EARTHQUAKE WORKING GROUPS AND UPDATE OF RELATED DATABASES	USGS	107,151	67,490	1/17-12/18	N
1/17	HAZARDS		UDP9	2017 UGS GEOLOGIC DATA PRESERVATION PROJECT	USGS	123,650	61,825	7/17-6/18	Y
4/17	HAZARDS	N/A		LIDAR MAPPING OF THE EAST AND WEST CACHE FAULT ZONES	USGS	72,996	50,786	4/18-3/19	N
4/17	HAZARDS		UFSS	MANTILLA SAL NATIONAL FOREST LANDSLIDE INVENTORY MAPPING (CANAL CREEK)	USDA FOREST SER.	21,600	10,800	7/17-6/22	Y
4/17	HAZARDS		UEG3	2018-2019 UTAH EARTHQUAKE WORKING GROUPS & UPDATE OF WORKING GROUP RELATED DATABASES	USGS	52,647	33,466	1/18-12/18	Y



CONTRACT PROPOSALS
2016 FORWARD
BY UGS PROGRAMS

As of 12/17/18

Closed
Active
Pending or Changes

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7/17	HAZARDS		UFS6	MANTLE SAL NATIONAL FOREST LANDSLIDE INVENTORY MAPPING (UPPER OAK CREEK)	USDA FOREST SER.	12,000	6,000	7/17-6/22	Y
1/18	HAZARDS		UGGD	GEOTECHNICAL SUBSURFACE GEODATABASE	UDOT	80,000	40,000	7/18-6/19	Y
1/18	HAZARDS		UDP0	2017 UGS GEOLOGIC DATA PRESERVATION PROJECT	USGS	123,852	61,802	7/18-6/19	Y
2/18	HAZARDS		UGHD	UTAH GEOLOGIC HAZARDS DATABASE & CUSTOM REPORTING TOOL	UDEM/FEMA	25,665	19,248	3/18-6/18	Y
3/18	HAZARDS		UBCL	BRYCE CANYON NATIONAL PARK LIDAR	NATIONAL PARK SERVICE	43,000	0 (all pass-thru)	4/18-6/19	Y
5/18	HAZARDS	N/A		NORTHERN WASATCH FAULT ZONE TRENCHING PROPOSAL	USGS	125,319	62,660	4/19-3/2020	N
5/18	HAZARDS			NORTHERN UTAH & SOUTHEASTERN IDAHO FAULT MAPPING	USGS	56,502	28,251	1/19-12/19	on hold
5/18	HAZARDS	N/A		2019 UTAH EARTHQUAKE WORKING GROUPS & UPDATE OF WORKING GROUP RELATED DATABASES	USGS	68,272	44,059	1/19-12/19	N
6/18	HAZARDS		UPSS	DIGITAL SCANNING OF US FOREST SERVICE AERIAL PHOTO INDEX SHEETS	USFS	\$5,000 new; up to \$299,000	\$5,000 new; up to \$299,000	7/18-6/21	Y
6/15	HAZARDS			BRYCE CANYON NATIONAL PARK GEOLOGIC HAZARDS MAPPING	NATIONAL PARK SERVICE	107,300	53,650	7/19-6/21	?
10/16	MAPPING		URST	STATEMAP 17-18	USGS	331,142	165,571	7/17-6/18	Y
11/17	MAPPING		URST	STATEMAP 18-19	USGS	331,142	165,571	7/18-6/19	Y
10/18	MAPPING			STATEMAP 19-20	USGS	600,000	300,000	7/19-6/20	?
1/16	PALEO	N/A		PALEO SURVEY & INVENTORY OF MORRISON & CEDAR MTN FORMATIONS	BLM	21,481	10,740	4/16-9/16	N
5/16	PALEO		UPPS	EVALUATION, INVENTORY & INITIAL PLANNING FOR AN INTERPRETIVE DINOSAUR TRAIL AT FOSSIL POINT, EMERY COUNTY, UTAH	BLM	11,309	11,309	4/16-6/17	Y
6/16	PALEO		UCCP	CANYON COUNTRY PALEONTOLOGICAL SURVEYS	BLM	42,800	21,400	8/16-9/16	Y
6/16	PALEO		UPFY	UTAH'S BLM POTENTIAL FOSSIL YIELD CLASSIFICATIONS (PFYC)	BLM	60,000	30,000	11/16-6/17	Y
4/17	PALEO		UWBP	WESTERN BLANDING BASIN PALEO SURVEY	BLM	21,480	10,740	7/17-12/17	Y
5/17	PALEO	N/A		WESTERN BLANDING BASIN - MORRISON STRATIGRAPHY DOCUMENTATION	BLM	53,912	26,956	10/17-10/18	N
7/17	PALEO	N/A		MID MESOZOIC AT NORTHERN CAPITOL REEF NATIONAL PARK (CARE)	BLM	35,401	17,701	10/17-6/18	N
7/17	PALEO		UDBP	PALEO DATABASE DEVELOPMENT	BLM	7,500	7,500	7/17-6/18	Y
10/17	PALEO			PALEO EXCAVATION OF DOELLING'S BOWL BONEBED - PHASE II	CANYONLANDS NATURAL HISTORY ASSOCIATION	18,953	9,476	7/18-9/18	N
6/18	PALEO		UDBP	PALEO DATABASE DEVELOPMENT - Continuation/Additional funding	BLM	30,000	30,000	7/18-6/19	Y
8/18	PALEO		UCRM	MID MESOZOIC AT NORTHERN CAPITOL REEF NATIONAL PARK (CARE)	BLM	50,032	25,016	9/18-9/19	Y
1/16	ADMINISTRATION		UGNV	DISCOVERING BLIND GEOTHERMAL SYSTEMS IN THE GREAT BASIN REGION (NEVADA)	U of NEVADA	60,000	60,000	2/16-9/17	Y
4/16	ADMINISTRATION		UF2A	PHASE 2 FORGE (DOE total project approx. \$856,828)	DOE/EG	201,469	201,469	10/16-1/17	Y
4/16	ADMINISTRATION		UF2B	PHASE 2 FORGE (DOE total project approx. \$9.5 mil)	DOE/EG	475,000	475,000	2/17-2/18	Y
2/18	ADMINISTRATION		UF2C	PHASE 2C FORGE	DOE/EG	273,185	273,185	7/18-6/19	Y