

To: Matthew Betenson[mbetenso@blm.gov]; Cynthia Staszak[cstaszak@blm.gov]
Cc: Bradshaw, James[jbradshaw@blm.gov]
From: Backer, Dana
Sent: 2017-08-15T10:39:45-04:00
Importance: Normal
Subject: permit for USGS use of UAS for sediment loading in retention basins
Received: 2017-08-15T10:39:54-04:00
[USGS Salinity mckinney UT-2017-030-006-H permit.docx](#)
[blm salinity structures utm.xlsx](#)
[BLM-sed basin assessment of erosion TSM \(2\).docx](#)
[OAS-30U -9-16 remote pilot Tim McKinney.pdf](#)
[salinity structures.pdf](#)
[USGS Salinity mckinney UT-2017-030-006-H letter.docx](#)

Matt/Cindy

BLM State Office has a project with USGS to fly a UAS to take photographs (simplified term for what Structure from Motion photogrammetry) to quantify the sediment loads in saline retention basins. They will be putting several rebar markers for repeat photography within the disturbed area. Matt Z, Cameron, and Ken (project lead) have all signed off on the permit.

Attached is the letter for your signature, the permit, and all the support documentation. USGS lead, Tim McKinney has already notified Bryan Brazzeal of his flight plans and I will notify Law Enforcement. They want to fly August 27-31 because the basins are filling up so I am trying to fast track this.

Thank you.

Dana

Dana Backer
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Name	Easting zone 12 nad83	Northing zone 12 nad 83
Telegraph Flat 1	398867.059200	4107508.622560
Telegraph Flat 4	399181.771064	4111126.619600
Telegraph Flat 3	398891.790461	4110932.661130
Telegraph Flat 2	398146.337528	4110421.866540
Finn Little	397030.251238	4114879.387530
8 Mile	406075.899735	4116296.090720
Kimble Valley 1	409923.256733	4115212.728140
Buckskin1	398819.673399	4105870.727140
Buckskin2	396911.907280	4101794.625040
5 mile 1	411899.106495	4104190.459550
5 mile 2	411120.576418	4103408.305240
House Rock Valley 1	408900.674947	4098403.748560
Paria Town 1	412379.032081	4117509.552730
Paria Town 2	411942.994788	4117286.516240
Kimble Valley 3	408472.010490	4116248.604970
Kimble Valley 2	408438.641193	4116536.144580
Kimble Valley 5	408114.235124	4115209.900390
Paria Town 3	412116.559359	4116834.339290
Buckskin 3	398387.002973	4104734.862660
House Rock Valley 2	408861.642070	4097978.495110
Buckskin 4	395097.766960	4102593.595210
Kitchen Corral 1	403610.781940	4114509.421270
Kimble Valley 4	410688.571503	4115551.050060
Vermillion 1	394010.950010	4100098.356570
Government Res	395524.448215	4100088.179780
Winterfat Exclosure	392616.809074	4101277.354760
5 mile substation	405411.807151	4111560.316020