ID	Notes		
1	NA		
2	NA		
3	NA		
4	NA		
5	Very Rocky		
6	NA		
7	Hit bedrock at 21 centimeters.		
8	60 sm to BR		
9	NA		
10	NA		
11	NA		
12	Horizon 1 = 40% Clay	Horizon 2 = 60% Clay	Horizon 3 = Bedrock at 16 cm
13	NA		
14	NA		
15	NA		
16	NA		
17	NA		
18	Bed rock at approximately 11cm		
19	Horizon=H. H1 was ~30% Clay. H2 was ~35% Clay. H3 was ~25% Clay with 42 % gravel and 30% Cobbles. H4 was ~22% Clay with 12% Gravel and 60% Cobbles. H5 was ~6% Clay, 1%Gravel, 15% Cobbles, 80% Stones and horizon 5 had small fragments of 10YR 5/8.		
20	Johnston Key: FD13C. Lodgepole pine present on plot via photos	key mentions elk sedge - potentially present in the area. ESD: Conifer Forest	
21	35 to r		
22	NA		
23	Hit bedrock at 26 cm in depth.		
24	NA		
25	Bedrock at approximately 10 cm deep. Typical of this area. Other locations were lightly augered to verify.		
26	Hit bedrock at 51 cm in depth		
27	NA		
28	NA		
29	NA		
30	15 cm to Bedrock		
31	NA		
32	NA		

33	Hit bedrock at approximately 30 cm deep	we dug at several other locations to confirm bedrock
	ESD is coniferous forestEcotype: dominated by subalpine fir with stands of aspen and some lodgepole pine and blue spruce, aspen pea vetch,	
34	lupine, and thurber fescue dominating understory	
35	NA	
36	NA	
37	NA	
38	NA	
39	Hit bedrock at 32cm	
40	NA	
41	Hit bedrock at approximately 30 cm in depth	
42	NA	
	Slope is greater than 40% throughout plot. Leaf litter and other organic matter accumulated at soil surface. Dense gambels oak was ubiquitous throughout the plot alongside cercocarpus montanis as the understory to pinus edulus and juniperus	
43	osteospermum.	
44	NA	
	Hit parent material at 43cm. Think basalt is parent	
45	material.	
46	NA	
47	NA	
	There is a lot of debris and rock fragments in this soil pit. When we reached 52 cm, we saw a lot of	
48	weathered rock.	
49	50m to BR	
50	Roots throughtout the pit	
51	NA	
52	Bedrock at 53 cm	
	Dug to 34cm impermable rock layer (site was right	
53	next to talus slope)	
54	Bedrock at 31 cm.	
55	NA	
56	NA	
57	NA	
58	Could not dig past 30 cm due to high rock content	
59	NA	
60	NA	
61	Bedrock at 50 cm.	
62	NA	
63	No soil pit. Talus field.	
64	Bedrock hit at 35cm.	
65	Alpine tundra - too rocky to dig pit to depth	
66	NA	
67	Rock layer at 50 centimeters	

68 Hit bedrock at 47 cm.
69 NA
70 NA
71 35cm to bedrock
horizon 1-3 were darker blackthan munsell had..PIT
72 SHOULD BE REDONE ON REVISIT
73 NA
74 Rocky pit.
BR @30cm. Soil was gley colored at 15 cm. color
75 for horizon 2&3= Gley16/10y.
76 No soil pit - talus field
Caliche layer present from 36cm on. We stopped digging at 60m because the soil was too difficult to dig and the horizons had no changes after we hit this
77 layer.
78 100% rock, talus
For Horizon 2 it is massive and solid. It is still soft enough to push through the sieve. Horizon 1 = 30%
79 clay Horizon 2 = 20% clay
80 NA
81 impassable compaction and stony layer at 25cm
82 Extremely rocky and compact. Impassable at 32 cm.
83 NA
84 NA
85 NA
flat rock between 20cm and 40cm across entire
86 horizon about 2cm thick at 15 degree angle
87 NA
88 Rock layer at 30 centimeters
89 53 cm to BR
90 rocky layer at 27in
91 Most of the plot is in a water flow path
92 Bedrock at 43 cm.
93 Extremely rocky
94 No soil pit. Plot center located on a talus field.
95 NA
96 Rocky layer at 21 inches
Stopped at 62cm as caliche was taking too long to get through, horizon 4 has many wood fragments and
97 is heavily compacted and high in caliche
98 NA
50 cm to BR ~` lrg stones removed from surface
99 to dig soilpit
100 NA
101 NA
102 NA
103 Extremely rocky. Hit bedrock at 62cm.
104 NA
105 Rocks prohibited digging past 52 cm

	ESD: Conifer woodland with sagebrush Johnston FD10C - elevation of plot slightly lower than key mentions (8700ft on plot vs 9440 in key). Plot was		
106	done by sidney bussler not chelsea		
107	Bedrock at 25 cm.		
108	Hit bedrock at 33 cm		
	Hit bedrock at 36cm. Soil Hoizon 1 was ~18% clay.		
109	Horizon 2 was ~25% clay.		
	Calcius zone from soil horizon 4 to, presumed 70 cm of depth. Horizon 1, 10% clay. Horizon 2, 20% clay.		
110	Horizon 3, 25% clay. Horizon 4, 20 % clay		
111	Extremely rocky. Bedrock at 46 cm.		
	As I dug down, the amount of hard CaCo3 rock		
112	pieces increased, as well as their size.		
113	NA		
	Johnston Key: AL01 - plot higher elevation than in	plot significant amount	
114	key. Live cover also less than listed in key	of skree.	
115	NA		
	Very compacted caliche starting at 30cm, stopped		
116	digging at 57cm		
117	NA		
118	57cm to impenetrable layer		
119	45 to rock		
120	53 to Rock		
121	NA		
122	No soil pit - talus		
123	NA		
124	NA		
125	49 cm to BR		
126	NA		
127	NA		
128	45 cm to R		
	Only reached a depth of 45 cm due to Calichie layer that became very compacted at 22 cm. This layer did		
129	not change and became too difficult to dig.		
130	Hit bedrock at 68cm, top horizon is litter and duff		
131	NA		
	Plot was dominated by exposed bedrock with		
132	deposited sandy soil in deeper areas of rock		
133	Solid rock layer at bottom of pit (68 cm)		
134	bedrock at 45 cm		
135	NA		
136	No pit, talus field.		
137	No pit, talus field.		
138	NA		
139	Forgot to take slope/aspect		
140	NA		
141	Johnston Key: FD12J - Thurber fescue mentioned in key	was potentially on plot. Elk sedge very likely	still best fit.

		absent but mentioned in key	ESD: Coniferous forest.
142	Bedrock at 43 cm		
143	NA		
144	Hit parent material at 61 cm		
145	NA		
146	The soil surface is gravelley with exposed stones and boulders common.		
147	NA		
148	NA		
149	Clouds of swarming (biting) gnats made slow, methodical data capturing extremely difficult.		
150	NA		
151	Bedock after 48cm		
152	Rocky compaction layer starting at 12 inches - could not dig to depth		
153	NA		
154	Reached 60 cm, layer from 28 cm down was calichie and showed no change. "Gravel" from this layer was very compacted soil and tough to break down.		
155	NA		
156	Not very compact through all 70cm		
157	Johnston Key: AL03	cover on plot slightly less than in key per skree transects. Two transects entirely or mostly covered by skree field	
158	NA		
159	Layer 2 high organic matter %. Bedrock hit at 45 cm.		
160	NA		
	Conifer forest		
	Johnston Ecological type		
161	FL2-A		
162	NA		
163	Fits Unita found in conifer forest. No Eco site or parent material Provided. Plot map listed soil type between LhF and PhF		
164	NA		
165	20 to r		
166	NA		
167	Soil pit was near an old two track and might have been a bit more compacted in the first 2 horizons than the rest of the plot		
168	NA		
169	NA		

ESD not given in Wetterhorn description.
ESD:Conifer forest
170 Johnston:FD09 B
Plot is a true aspen, occuring in a moist drainage with
171 high diversity
172 NA
173 NA
Very compacted caliche begins around 45cm,
174 therefore stopped digging
Johnston Key: FLO5C, Lodgepole pine was not noted but is seen in plot photos. Did not call Elk Sedge, but was potentially present. ESD does not appear to match site/ not given. ESD: Conifer
175 woodland
176 NA
177 NA
Area is open sage surrounded by oakbrush stands. Many open areas with sage that is mostly spreading. Many forbs and grasses among sage with sparse
178 pinyon nearby.
179 Bedrock at 52 cm.
180 No soil pit
181 Bedrock at 64 cm
182 NA
183 NA
184 Johnston Key: FD16C lacking Elk sedge and common juniper on plot verses key. ESD: Conifer forest
185 53 cm to parent material
186 soilpit close to 4x4 road
187 Rocky. Hit rockbed at 53cm
188 NA
Only used 7.5YR for color, horizon 2 at 10-31cm consisted of very compacted caliche, horizon 3, 5, 7, and 9 are bands of gravel; bottom horizon 62-75cm has extremely high clay percentage and not
189 compacted at all
190 NA
Clay layer at 15 cm. Petrocalcic layer at 37 cm.
191 Bedrock at 55 cm.
192 NA
All gravel measured for the rock fragment volume is
193 shale
194 NA
195 34 cm to rock
196 No ecological site listed on soil description
197 NA
198 Johnston Key: FL07C ESD: Conifer forest

	No PJ on or hear plot, appeared to have more			
199	potential to be a Sagebrush Steppe			
200	Hit bedrock at 26 cm			
	Horizon1 is ~60% Clay. Horizon 2 is ~55% Clay. Horizon 3 is ~46% Clay. Horizon 4 is ~45% Clay.			
201	Horizon 5 is ~40% Clay			
	tree stump at center point. Transect 2 passes thru deep gully. Transect 1 passes thru gully. Site moved 50 meters west from original point (<45 degree			
202	slope).			
203	NA			
204	NA			
205	impassable layer at 43cm. Hard clay?			
206	Hit bedrock at 66cm			
207	Bedrock at 48 cm			
208	NA			
209	NA			
210	NA			
211	Bedrock at 55 cm			
	Rocky layer and massive rock prohibited digging full	38 cm was measurement		
212	soil pit to depth	in between		
213	NA			
214	Bedrock at 60 cm.			
215	NA			
	Johnston Key: FL05C. ROWO absent. ESD: Aspen			
216	forest			
	No soil pit: entire plot on highly vegetated talus			
217	slope.			
218	NA			
219	Bedrock at 60 cm.			
220	NA			
221	NA			
222	High organic matter in layer 1.			
223	NA			
224	Horizon 1 = 30% clay	Horizon 2 = 30% clay	Horizon 3 = 20% clay	Horizon 4 = Bedrock at 55 cm
225	NA			
226	very rocky ,38 centimeters at rock layer			
227	Bedrock at 29 cm			
228	NA			
229	Plot was on talos field. No pit.			
	impermeable rock layer prohibited digging past 10-			
230	cm (boulders).			
231	Soil was wet from previous night's rain.			
232	Could not dig past 52cm due to impermeable layer			

white concretions below 9cm. Dense band 9-16cm,
233 less to depth. "gravel," is just hard clay balls.
234 28cm to parent material
235 very rocky 31cm to BR
236 NA
237 NA
238 Lighting and rocks hindered soil pit picture. Soil was wet from rain. A lot of weathered rock is present. Three soil pits were dug, but site was dominated by large rocks and boulders in the ground.
239 Hit bedrock at 20 cmc.
240 NA
241 NA
242 Bedrock at 18 cm.
243 NA
244 Impermeable layer at 36 cm
245 36 centimeters to bedrock
246 NA
247 NA
248 NA
249 Impermeable layer at 33cm
250 NA