

TABLE DR1. FIELD LOCATIONS AND ALTITUDES

Station	USGS 7.5' quadrangle	UTM NAD 83 Zone 11 East	North	Altitude (m)*	Location notes
<i>Afton Canyon, south rim sites</i>					
M03-43	Cave Mountain	559260	3874998	548	Western possible capture point on south rim. Underlain by indurated, interbedded arkosic sandstone and conglomerate
M03-44	Cave Mountain	560425	3875232	518	Low terraces on N side of tributary to Baxter Wash; tributary leads to eastern possible capture point. Consist of <0.5 m-thick angular gravel derived from nearby Tertiary fanglomerate overlying surface cut on weathered clayey gravel
M03-45	Cave Mountain	559899	3875400	534	Eastern possible capture point on south rim. Underlain by Tertiary mudstone and sandstone interfingering with fanglomerate
<i>Afton Canyon, high fluvial deposits with no terrace morphology</i>					
JR04CM-87	Cave Mountain	558726	3876135	537.7	High fluvial gravel and sand, Mojave river origin, buried by fan deposits; soil description site
JR04CM-88	Cave Mountain	558830	3876370	536	High fluvial gravel and sand, Mojave river origin, buried by fan deposits; soil description site
JR05CM-146	Cave Mountain	560908	3876744	>463	Lagged Mojave River gravel cut into Tertiary conglomerate with ~3 meter scarp
JR05CM-153	Cave Mountain	561027	3876772	463	Surface lag of well rounded Mojave River gravel overlies gravelly alluvium interbedded with probable fluvial gravel, mostly locally sourced with few Mojave River clasts; some clasts reworked from former desert pavement
JR05CM-144	Cave Mountain	561095	3876814	<463	Mound of river gravel
<i>Afton Canyon, terrace deposits east of Lake Manix threshold</i>					
JR04CM-85	Cave Mountain	558656	3876207	512	Strath terrace of Mojave River with rounded gravel
JR04CM-84	Cave Mountain	558659	3876092	488	Strath terrace of Mojave River with rounded gravel
JR04CM-82	Cave Mountain	558775	3876193	512	Strath terrace of Mojave River with rounded gravel
JR05CM-143	Cave Mountain	561130	3876845	463	A more eroded piece of the Mojave River terrace from site JR05CM-142
JR05CM-142	Cave Mountain	561165	3876867	451	Eroded Mojave River terrace with well rounded, spherical gravel; back edge of fluvial terrace is 1-2 meter scarp, similar to site JR04CM-140. Recon. soil description--Av/C
JR05CM-138	Cave Mountain	561869	3877358	433	Well rounded sand (Mojave River?) interbedded with tributary fan deposits; surface clasts are well rounded and not local. Recon. soil description: Av/Bwk/Coxk
JR04CM-103	Cave Mountain	562005	3877389	427	Mojave River terrace inset into site JR05CM-138. Recon. soil description: Av/Coxk, stage I+ carbonate and silica. Disturbed surface
JR05CM-133	Cave Mountain	562176	3877527	<427	Small piece of Mojave River terrace, inset into JR05CM-133; apparently same terrace as at JR05CM-121
JR05CM-132	Cave Mountain	562215	3877462	408	Small, disturbed remnant of Mojave River terrace
JR05CM-121	Cave Mountain	562222	3877723	415	Fluvial terrace gravel with thin overlying fan deposit; some rounded and many subangular clasts
JR05CM-124	Cave Mountain	562882	3878187	>402	Fluvial terrace gravel with thin overlying fan deposit; soil description site
JR05CM-197	Cave Mountain	562339	3877973	415	Fluvial terrace, probably same surface as site JR05CM-121; soil description site
JR05CM-129	Cave Mountain	563173	3878323	384	Mojave river terrace 12-15 meters above river; variable lithologies, well rounded clasts
JR05CM-130	Cave Mountain	563394	3878313	366	Tributary gravel and sand overlying ~1 meter of Mojave River gravels.
<i>Afton Canyon, terrace deposits west of Lake Manix threshold</i>					
JR04CM-77	Cave Mountain	557594	3876469	451	Mojave River fluvial terrace; soil description site
JR04CM-67	Cave Mountain	557513	3876697	439	Thin fan covering Mojave River fluvial terrace.
JR05CM-152	Cave Mountain	557562	3877076	439	Eroded fan deposits overlying a strath terrace with sand and gravel 1-2 m thick
JR05CM-149	Cave Mountain	557412	3877162	451	Eroded fan deposit overlying fluvial sand and gravel; locally abundant fluvial deposits on interfluvies
JR04CM-78	Cave Mountain	557270	3876966	<439	Mojave River fluvial terrace; soil description site
JR04CM-92.5	Cave Mountain	557040	3877534	463	10-12 strath terraces in sequence. Upper 7 terraces have south-facing back edges (generally ~1-2 m high) likely cut by right bank of Mojave River; lowest three terraces have north-facing back edges likely cut by left bank of river
JR04CM-43	Cave Mountain	557008	3876980	427	Mojave River cut and fill terraces above here.
JR04D-95	Dunn	556872	3877730	>463	Highest strath terrace found; soil description site. Surface is eroding and partly covered by sand, thus soil development is minimum
JR05D-198	Dunn	556983	3877763	469	Alluvial fan deposit; soil description site; top of a thick, mostly tributary sourced, fill deposit overlying strath terraces cut to within about 12 m of modern Mojave River

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JR05CM-156	Cave Mountain	556292	3877723	475	Eroded tributary fan with interbedded sand and coarse gravel overlying Mojave River strath terrace with rounded cobbles and boulders
JR05D-157	Dunn	555969	3877942	<u>478</u>	Alluvial fan overlying deposits of JR04D-68.
JR04D-68	Dunn	555946	3877916	<u>476</u>	Slackwater and (or) lacustrine deposits. See Fig. 10 for stratigraphy, Table 1 for radiocarbon ages, and Table 2 for soil description on overlying fan deposits (JR05-157)
JR04D-70	Dunn	556058	3878024	<u>477</u>	Intercalated colluvium and slackwater deposits of site JR04D-68
JR05D-178	Dunn	555358	3877635	<u>455</u>	Possible beach barrier (?) overlying fluvial strath terrace
JR05D-193	Dunn	555244	3877251	<u>456</u>	Paired terrace to site JR05D-178, slackwater-type sediments
JR05D-188	Dunn	555082	3877285	<u>453</u>	Fan deposit overlying Mojave River fluvial terrace
<i>Afton exit area, lacustrine deposits</i>					
M04-29A	Dunn	551371	3880382	543.4	Barrier crest on east side of Dunn wash
M04-29B	Dunn	551242	3880228	543.6	Barrier crest on west side of Dunn wash
M04-29C	Dunn	551063	3879914	543.6	Barrier crest about 0.5 km west of Dunn wash
JR04D-1	Dunn	551349	3880423	<543	On shoreface of beach barrier adjacent to site M04-29B; see Table 1 for ¹⁴ C age
JR04D-105	Dunn	552788	3881504	543	Barrier crest north of Afton exit from Interstate 15
M05-17	Dunn	549532	3878048	544.1	Wavecut scarp angle in fan deposits
M05-19	Dunn	551751	3879950	526	Section measured in multiple lake units separated by unconformities and paleosols along pipeline and roadcut; see Table 1 for ¹⁴ C age
M05-20	Dunn	551586	3880070	528	Section measured above basal tufa of green mud unit in upper Dunn wash; see Table 1 for ¹⁴ C age
M05-21	Dunn	551554	3880198	535	Section measured in upper lake units in upper Dunn wash; see Table 1 for ¹⁴ C age
M05-28	Dunn	551475	3880092	532	Uppermost lake unit on flank of beach ridge, west side of Dunn wash; see Table 1 for ¹⁴ C age
<i>North Afton beach ridge and Shoreline hill, lacustrine deposits and scarps</i>					
M04-32A/B	Cave Mountain	558374	3879150	558	Well bedded sands containing broken <i>Anodonta</i> shells in individual layers; apparently eolian sand sheets reworked from late Pleistocene lake deposits
M04-40	Cave Mountain	559462	3877708	557.6	Well bedded sand and coarse silt, buried by angular colluvium, nearshore sorting/bedding; one fish scale
M04-48A	Cave Mountain	558762	3877324	540.4	North side of Shoreline hill; A is top of bench and shoreline angle cut on colluvium
M04-48B	Cave Mountain	558740	3877277	543.8	North side of Shoreline hill; B is base of vertical bedrock scarp above A
M04-49A	Cave Mountain	558704	3877122	532.1	West side of Shoreline hill; A is top of bench with wave-rounded beach gravel and tufa (forms cliff)
M04-49B	Cave Mountain	558706	3877164	545.2	West side of Shoreline hill; B is base of vertical bedrock scarp above A
M04-50A	Cave Mountain	558996	3877083	538.6	South side of Shoreline hill, lowest scarp (shoreline angle?) on bedrock
M04-50B	Cave Mountain	558984	3877112	549.2	South side of Shoreline hill, higher scarp on bedrock above A
M04-50C	Cave Mountain	558986	3877132	557.1	South side of Shoreline hill, higher scarp on bedrock above B
M04-51	Cave Mountain	559230	3877141	554.5	Southeast side of Shoreline hill, well bedded sorted sand with heavy-mineral laminae, small-scale crossbedding, and locally back-dipping beds; two units interbedded with alluvial-fan deposits and separated by a buried soil
M05-22H	Cave Mountain	557743	3877975	538	North Afton beach ridge, from very top of ridge in youngest preserved lake unit; whole fragmented shells in growth position
M05-23C	Cave Mountain	557859	3877558	515	North Afton beach ridge, section M05-23 on east side; shells are from base of oldest definite lake unit. Minimum-limiting age
M05-25J	Cave Mountain	557939	3877984	521	North Afton beach ridge, section M05-25 on east side; shells are from top of oldest of three lake units. Minimum-limiting age
M05-26F	Cave Mountain	557685	3877833	522	North Afton beach ridge, section M05-26 on east side; shells from top of oldest of three lake units and just below "interlacustral gravel" of Meek (1990); see Table 1 for ¹⁴ C age
M05-62	Cave Mountain	557457	3878681	533.3	North Afton beach ridge, west side; whole in-situ shells in middle lake unit, 60 cm above "interlacustral gravel" of Meek (1990)
M05-28	Dunn	551475	3880092	532	Uppermost lake unit on flank of beach ridge, west side of Dunn wash; see Table 1 for ¹⁴ C age

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<i>Buwalda Ridge area, lacustrine deposits and scarps</i>					
M04-74	Manix	547524	3875703	535	Railroad cut northeast of Buwalda Ridge, 2 beach gravel units separated by paleosol; see Table 1 for ¹⁴ C age
M04-75	Manix	542363	3870917	542	Upper lake unit in outcrop face; overlies lower lake unit; see Table 1 for ¹⁴ C age
M04-76A	Manix	542426	3871043	564.2	Scarp angle above upper barrier; cut on indurated fanglomerate
M04-76B	Manix	542384	3870998	550	Scarp angle in slope above M04-76C; cut in indurated fanglomerate
M04-76C	Manix	542345	3871002	547.0	Highest point of packed pavement on upper barrier; soil pit lies at 546 m
M04-77	Manix	542176	3870977	537	Soil pit on lower barrier
M05-06	Manix	542784	3870832	543	Soil description on buried lake unit about 2 m below surface
M05-07	Manix	542730	3870988	549	Buwalda Ridge, north of Manix fault; uppermost limit of probable lake sediment in well sorted sand about 0.5 m below distinct paleosol
<i>Soldier Mountain area, lacustrine deposits and scarps</i>					
M04-20	Manix	543128	3868132	539.0	Sharp wave-cut scarp angle on bedrock, abundant rounded clasts below
M04-20A	Manix	543156	3868112	546.8	Subdued scarp angle (color change) on bedrock, above M04-20
M04-21A	Manix	543176	3867974	557.8	Subdued scarp angle on bedrock, above float contact of angular to rounded rhyolite clasts
M04-21B	Manix	543150	3867960	554.6	Packed pavement with common rounded clasts below M04-21A
M04-23	Manix	542031	3867455	536	Embayment below 543-m shoreline nearshore sand overlying weak Bt horizon formed on lacustrine mud; see Table 1 for ¹⁴ C age
M04-27A	Manix	539334	3866657	549	Highest outcrop of lacustrine deposits
M05-30	Manix	542839	3867712	558	Upper limit of packed pavement to west of site M04-21
<i>Harvard Hill, possible lacustrine deposits</i>					
M04-13	Harvard Hill	530953	3866516	557.8	Float contact of volcanic gravel above with granitic rounded pebbles below
M04-13A	Harvard Hill	531016	3866416	558	Float contact of volcanic gravel above with granitic rounded pebbles below
M04-13B	Harvard Hill	531106	3866282	558	Float contact of volcanic gravel above with granitic rounded pebbles below
M04-13C	Harvard Hill	531197	3866100	558	Float contact of volcanic gravel above with granitic rounded pebbles below
M04-14	Harvard Hill	531336	3866042	556.1	Top of gentle, arcuate ridge composed of granitic sand and rounded pebbles
M04-15	Harvard Hill	531241	3866372	555.2	Soil pit in granitic sand adjacent to above sites
<i>Troy Lake area, lacustrine deposits</i>					
M05-46A	Troy Lake	540348	3858361	549.0	Barrier crest on east side of hill 1782; break in slope where barrier attaches to hill
M05-46B	Troy Lake	540361	3858377	548.4	Barrier crest on E side of hill 1782; on broad barrier crest
M05-48B	Troy Lake	540509	3855722	546.1	Highest point of packed pavement above late Pleistocene beach ridge
M05-48C	Troy Lake	540530	3855722	544.5	Flat broad barrier crest; late Pleistocene beach ridge
M05-48D	Troy Lake	540632	3855730	549.1	Scarp angle on basalt hill east of Troy Lake beach ridge
M05-48E	Troy Lake	540470	3855678	544.4	Top of main Troy Lake beach ridge on south side of hill
M05-49	Troy Lake	540539	3855312	545.0	Top of Troy Lake beach ridge adjacent to arroyo cut
M06-54	Troy Lake	541043	3853881	544.2	Low, indistinct beach ridge of late Pleistocene highstand
M06-55A	Troy Lake	541392	3853789	548.2	Wavecut scarp angle on basalt hill; well defined
M06-57	Troy Lake	541704	3853755	554.7	Highest point of tombolo composed of beach gravel extending north from basalt hill
M06-58	Troy Lake	541924	3853885	555.6	Probable beach sand and gravel, mod well sorted pebble gravel and sand

* Bold font indicates differentially corrected GPS data; altitudes not in bold font estimated from topographic map using handheld GPS location. Underlined italic font indicates altitudes from NASA ATM-III LIDAR data acquired September, 2003, funded by the U.S. Army Corps of Engineers, WRAP program R. Lichvar & D. Finnegan.