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SUPPLEMENTARY ONLINE MATERIAL FOR

New Upper Cretaceous microvertebrate assemblage from the Williams Fork Formation (Campanian–Maastrichtian), northwestern Colorado, USA, and its paleoenvironmental implications

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Supplementary Online Material

Table S1. Description of measured section in Figure 2C (Brand et al. 2022).

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Unit	Lithology	Thickness (m)
6	Yellowish gray (5Y 7/2) to dusky yellow (5Y 6/4), fine-grained, moderately sorted, subrounded to subangular, crossbedded litharenite. Locally conglomeratic with abundant broken and rounded vertebrate fossils, clasts up to 1 cm except for vertebrates; basal channel lag is J&M site horizon.	2.4
5	Pale yellowish brown (10YR 6/2) lignitic siltstone to very fine-grained, moderately sorted, rounded to subrounded, lignitic sandstone.	0.9
4	Yellowish gray (5Y 8/1) intraformational conglomerate. Clasts are mudstone, plant debris, and invertebrates (gastropods and pelecypods). Sandy matrix is a well to moderately sorted, rounded to subrounded, fine grained litharenite.	0.8
3	<p>C. Light olive gray (5Y 6/1) to yellowish gray (5Y 8/1) calcareous lignitic mudstone. Unit is 0.5 m thick.</p> <p>B. Dark yellowish brown (10YR 4/2) silty lignitic mudstone. Locally yields mm-scale invertebrates; forms a dark band separating A from C. Unit is 0.5 m thick.</p> <p>A. Light olive gray (5Y 6/1) to yellowish gray (5Y 8/1) calcareous lignitic mudstone with abundant. Plant debris is abundant. Unit is 0.4 m thick.</p>	1.4
2	<p>B. Pale greenish yellow (10YR 8/2), very fine-grained, moderately well sorted, subangular to subrounded, slightly calcareous, muddy litharenite. Weathers to grayish orange (10YR 8/2).</p> <p>A. Yellowish gray (5Y 7/2) very fine-grained, moderately well sorted, muddy litharenite that grades up to a pale greenish yellow (10Y 8/2) muddy litharenite. Crossbeds present to south. Some cm-scale soft sediment deformation.</p>	1.8
1	Dusky yellow (5Y 6/4) to yellowish gray (5Y 7/2), very fine- to fine-grained, moderately sorted, subangular to subrounded calcareous litharenite. Not calcareous (?)	1.5+