

Section	Sample	TS	Gross facies	Dunham	Allochems, decreasing in abundance	Grain Size	Sorting	roundness/abrasion	Sedimentary structures	Porosity (type and percent)	Notes
1	1	X	VC/ VCC	Breccia	volcanic clasts make up 75% of sample, 15% Micrite, rare Peloids, rare Foraminifera, rare bivalves (disarticulated)	Pebble (up to 1.5 cm) to mud	poor	subangular Volcanic clasts	none	intra/intercrystalline ~5%	Volcanic clasts lined by thin (~1 mm) veneer of calcite? Cement - some meniscus cementation visible, subsequent void space filled by mudstone
1	2		VC	Calc Lithite	very high concentration of volcanic grains (~85%, (most of the sample is volcanic sand)) includes bivalve fragments and algae(~10%)	mud to Pebble, medium sand dominates	moderate/poor	abundant/ minor on some skeletal components	nice geopetal showing some potential tilting to the North east	fracture ~5%	
1	3		VCC	Conglomerate/Packstone	sample dominated by volcanic clasts (up to 2 cm), oyster fragments are also visible (up to 3 cm) and coral fragments to 2 cm also present are red algae and other unidentifiable skeletal components	mud to Pebble	v. poor	abundant rounding and abrading	none	modal/interparticular ~5%	
1	4		CGSPG	Packstone	no dominant skeletal component, diverse assemblage including volcanic clasts up to .3 (most medium to coarse sand), bivalve fragments, coral? Fragments, red algal fragments... further analysis in thin section would be beneficial	mud to Pebble (Pebble rare, most medium to coarse sand)	well	abundant	none	fracture ~5%	
1	5		VCC	Packstone/Rudstone/Conglomerate?	sample dominated by volcanic clasts (up to 8 cm), oyster fragments are also visible (up to 3 cm) and coral fragments to 2 cm also present are red algae and other unidentifiable skeletal components, green algae prevalent (looks like mizzia) volcanic clasts to 8 cm	mud to Pebble	v. poor	abundant	none	modal/interparticular ~5%	
1	6		BFR/ FGSWP	Packstone/Rudstone	sample dominated by large (3-4cm) bivalve fragments that are largely dissolved, recrystallization has made further identification difficult	mud to Pebble	v. poor	moderate to abundant	none	modalic ~30%	sample is salty, and highly recrystallized
1	7		FGSWP	Packstone	highly weathered, allochem identification difficult, molds of bivalve fragments are visible, but not else	mud to v. coarse (medium dominant)	well	abundant?	none	modalic <5%	sample is salty and extremely fragile, and very altered
1	8	X	FPWP	Packstone	Micrite (Neomorphic Mud)~45%, Peloids 15%	medium to mud	moderate	molds are well rounded	none	Modalic 40%	all Skeletal Allochems are Moldic, generally appear well rounded, some fractured Bivalve Fragments, preservation of internal structure is rare. Skeletal components original identity difficult to distinguish, bioturbation may also be preserved with infilling sediment identical to groundmass
1	9		RAPG	Packstone/Grainstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .5 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to v. coarse, coarse dominant, larger clasts v. rare	moderate to well	abundant	none	modalic 20-25%	
1	10		RAPG	Packstone/Grainstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .3 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to v. coarse (coarse dominates)	well	abundant	none	modalic 20%	
1	11	X	RAPG	Packstone	Red Algae ~15%, Bryozoans ~10%, Coral Fragments ~10%, algal laminations (likely red) ~15%, Peloids ~10%, Bivalve Fragments ~10%	Pebble (1.3cm) to mud	moderate	abundant to moderate	none	Modalic ~20%	large Bivalves oriented randomly, Red Algae highly fractured
1	12		RAPG/ FGSWP	Packstone/Grainstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .2 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant, with large red algal fragments (encrusting) (up to 1 cm)	mud to Pebble, lower coarse dominant	moderate/well	abundant	none	modalic 20%	sample is salty
1	13	X	RAPG/ FGSWP	Packstone	Peloids 15%, Red Algae 5%, Coral Fragments ~5%, Micrite (Neomorphic Mud) ~25% verm Fragments 10%	Pebble (.75 cm) to mud	moderate to well	abundant/moderate	none	Modalic, interparticular, intraparticular ~40%	Possibly some Bryozoan Fragments as well, but poorly preserved. Sample is muddy, and shows a wide variety of grain concentrations (Possibly some larger Coral clasts than I originally thought). Also this is the last sample described
1	14		RAPG	Packstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .3 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to v. coarse (coarse dominates)	well	abundant	none	modalic 20%	sample is salty
1	15		RAPG/ FGSWP	Packstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .2 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant, with large red algal fragments (encrusting) (up to 1 cm)	mud to Pebble, coarse dominant	moderate/well	abundant	none	modalic 20%	sample is salty
1	16	X	RAPG/ FGSWP	Packstone	Red Algae Fragments ~15%, Vermatid Fragments ~10%, Bivalve? Fragments (Moldic) ~ 10%, Bryozoan Fragments ~5%, rare Foraminifera, rare medium sand sized, well rounded Volcanic clasts, rare Gastropods molds. Peloids ~10%, Micrite (Neomorphic Mud) ~ 15%	Pebble (1.4cm) to mud	moderate to poor	abundant fracturing and rounding	none	Modalic ~35%	very muddy, nicely preserved molds, though they are ambiguous due to abrasion
1	17		RAPG/ FGSWP	Packstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .3 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to coarse	well	abundant	none	modalic 10-15%	some red and black discoloration, sample is salty

1	18		RAPG/ FGSWP	Packstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .3 cm) Vermatids, Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to coarse	well	abundant	none	moldic 15%	sample is salty
1	19	X	FGSWP	Packstone	Bivalve Fragments (molds) ~15%, Peloids ~5%, Micrite (Neomorphic Mud) ~25%	v. coarse to medium	well	abundant	none	Moldic ~55%	almost all Allochems have been completely dissolved, due to high abrasion, identification is difficult
1	20		FGSWP	Packstone	very diverse faunal assemblage, coral, algae (green and red), bryozoan, bivalve (largest at .3 cm) Vermatids large, up to 3 cm (rare), Foraminifera, Echinoderms Fragments all pretty equally abundant	mud to v. coarse (medium/coarse dominant)	moderate/well	abundant	none	moldic ~20%	sample is salty
2	1	X	FPWP	Wackestone/Packstone	Peloids ~20%, Neomorphic Mud ~65%	medium to mud	well	none visible	none	Moldic ~15%	no visible Allochems aside from Peloids, may have been dissolved
2	2	X	CGSPG/ CGSPG	Packstone/Packstone	upper portion - Red Algae Fragments ~10% (branching and encrusting) Bivalve Fragments ~10%, Peloids ~20% Coral Fragments ~5%, Gastropods, Foraminifera and Ostracods ~5%, Micrite ~ 20% Lower Portion - Bryozoan Fragments ~15%, Peloids ~15%, Bivalve Fragments ~10%, Red Algae Fragments ~5% Coral Fragments ~5% Micrite ~25%	upper Pebble to mud, lower v. coarse to mud	moderate upper, well lower	abundant in both	sharp contact (Possibly grain truncation?)	moldic in both, upper is 30%, lower is 20%	contact is sharp, marked by a color change, upper material is lighter in color
2	3		CAG	Breccia/fm	Tarballastraea Coral fragments dominate sample, up to 5 cm on cut surface >10 cm in sample, groundmass is wackestone with Ostracods, Foraminifera, Gastropods and rare bivalve	mud to Pebble?	poor	minor	none	moldic ~5%, interparticular ~15%	insitu-ness is debatable, may be associated with mega Breccia, could just as easily be insitu reef though, rare geopetals seem to indicate some displacement. Also nice infilled borings, and the coral appears to have been 'brainy' - large bivalves visible on weathered surface with good ornamentation up to 4 cm. sample is salty
2	4	X	CGSPG	Grainstone	Peloids ~10%, Red Algae 5%, Oyster Fragments ~15%, Bivalve Fragments ~5%, Green Algae Fragments ~5%, Coral Fragments ~10%, Micrite (Neomorphic Mud) ~ 15%, Sparry Calcite ~10%	Pebble (1cm) to mud	moderately well	abundant	none	Moldic ~35%	similar to other descriptions, Micrite (Neomorphic Mud) confined to interparticular space in larger particles
2	5		CGSPG	Packstone	skeletal peloidal, largest skeletal fragments are bivalves up to .7 cm, ~10%, other skeletal components include Vermatids, gastropods, red algal fragments (up to .3cm ~5%) coral fragments and unidentifiables.	mud to v. coarse, occasional grains up to 2.5 cm, rare	moderate to poor	moderate to abundant	none	moldic ~10-15%	molds show nice ornamentation on larger clasts
2	6		CGSPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths abundant (~25%) concentrated in lower half of sample, other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble	moderate to poor	moderate to minor	concentration of rhodolith/rhodalg fragments in bottom half of sample	moldic ~20%	rhodoliths difficult to see in cut side, very visible on weathered surface
2	7	X	FGSWP	Packstone	Peloids ~25%, Red Algae ~15%, Bivalve Fragments ~5%, Micrite/Neomorphic Mud 30%	v. coarse to fine	well	abundant fracturing	none	Moldic ~25%	many of the grains have been micritized or so abraded that molds are unidentifiable
2	8		CGSPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble, coarse sand dominant	well to v. well	abundant	none	moldic ~30%	may be some fining up present, but saw marks make it difficult to say definitively
2	9		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to fine Pebble coarse to v. coarse sand dominant	well	abundant	none	moldic and interparticular ~30%	possible bioturbated
2	10		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~.3 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to v. coarse, lower coarse sand dominant	well	abundant	none	moldic ~20%	nothing new here
2	11		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	moldic ~15 % enhanced by weathering of Micrite	
2	12	X	RAPG	Grainstone	Red Algae ~15%, Bryozoan Fragments ~5%, Sparry Calcite ~ 25%, rare Foraminifera	v. coarse to coarse	well	abundant	none	Moldic ~ 45%	similar to other descriptions, Sparry Calcite is 'lattice' of Allochems fringing cement, with some Possibly meniscus development.
2	13		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	moldic ~15 % enhanced by weathering of Micrite	
2	14		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse/ fine Pebble dominates)	poor	abundant	none	moldic ~20 % enhanced by weathering of Micrite	

2	15		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	modalic ~15 % enhanced by weathering of Micrite	
2	16		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (largest Grains bivalve)	lower portion v. well upper portion moderate	moderate	sharp gradational contact	modalic ~15 % in upper portion, modalic ~5% in lower portion	significant grain size change at contact, allochems assemblage and occurrence are consistent, just a change in Grain size. upper portion mud to v. coarse/Pebble, lower portion mud to medium sand, rare coarse grains
2	17		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	modalic ~15 % enhanced by weathering of Micrite	
2	18		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	modalic ~15 % enhanced by weathering of Micrite	
2	19		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (Pebble dominates)	moderate to poor	abundant	none	modalic ~30 % enhanced by weathering of Micrite	poorly preserved sample
2	20		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (coarse to v. coarse dominates)	well	abundant	none	modalic ~20 % enhanced by weathering of Micrite	poorly preserved sample
2	21		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (coarse to v. coarse dominates)	moderate to well	abundant	none	modalic ~20 % enhanced by weathering of Micrite	
2	22		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to coarse (lower coarse dominant)	well	moderate to abundant	none	modalic ~10 %	
2	23		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to v. coarse (coarse dominates)	moderate to well	abundant	none	modalic ~20 % enhanced by weathering of Micrite	
2	24	X	(T/ PF)/ RAPG	Boundstone/Packstone/(Framestone?)	Coral - massive growth form ~20% Bivalve Fragments ~15%, Red Algae Fragments ~15%, Bryozoans 5%, Foraminifera rare, Echinoderm Fragments rare, Peloids rare, Neomorphic Mud~25%	Pebble (4 cm Coral growth) to v. fine	poor	minor to none in Coral, below Coral is abundant	geopetals below Coral	modalic and interparticular ~25-30%	Coral contains large whole Bivalve with infilling material similar to that below Coral growth, sample preserves base of Coral growth form. Coral developed on large Red Algae clasts within Red Algae packstone/rudstone as described elsewhere.
2	25		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare), large porites clasts present ~1.5cm	mud to Pebble (coarse to v. coarse dominates)	moderate to poor	moderate to abundant	none	modalic ~30 % enhanced by weathering of Micrite	coral clasts show more abrasion than other clasts and are significantly larger
2	26		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, plus presence of large coral (P) clasts red algal clasts large and multiple forms	mud to Pebble (coarse to v. coarse dominates)	v. poor	moderate to abundant	none	modalic ~40% enhanced by weathering of Micrite also some interparticular in coral clasts <5%	coral clasts and red algal components up to 1.5 cm
2	27		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, plus presence of large coral (P) clasts red algal clasts large and multiple forms	mud to Pebble (v. coarse and Pebble dominates)	poor	moderate to abundant	none	modalic ~25% also some interparticular in coral clasts <5%	sample is better preserved than similarly coarse grained samples
2	28		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to v. coarse	well	moderate	none	modalic ~15%	bioturbation present (rare burrows) and rare large bivalves up to 1.5 cm (2 visible in hand sample)
2	29		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to Pebble (v. coarse dominates)	poor	moderate to abundant	none	modalic ~25%	
2	30	X	RAPG	Packstone	Red Algae Fragments 15%, Bivalve Fragments ~5%, Echinoderm Fragments ~5%, Peloids ~10%, Bryozoan Fragments ~15%, rare Volcanic Fragments, Foraminifera 5% Micrite 20%	coarse to fine (and mud)	moderate to well	moderate to abundant	none visible	Modalic ~25-30%	highly Moldic, good preservation (Possibly some meniscus cement)
2	31		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to Pebble (v. coarse dominates)	poor	abundant	none	modalic ~25% also some minor interparticular in large coral clasts	Pebble sized clasts are all coral (1.5 cm max), some large (1cm) red algal clasts can be seen on weathered surface
2	32		RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to coarse (lower coarse dominant)	well	moderate to abundant	none	modalic ~10 %	rare (1 in sample) rhodoliths up to 2 cm

2	33	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, additionally, lower medium well rounded volcanic clasts are visible ~10%	mud to v. coarse	well	moderate	some faint laminations gently dipping to south(>10°)(?)	modalic ~10%	
2	34	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, additionally, lower medium well rounded volcanic clasts are visible ~10%	mud to v. coarse	well	moderate	some faint laminations gently dipping to south(>20°)(?)	modalic ~15%	
2	35	RAPG	Packstone	skeletal components dominated by red algae >60%, also present are peloids and rare bivalve fragments and gastropods (likely others not readily visible)	mud to v. coarse (v. coarse dominates)	moderate	v. abundant	none	intraparticulate ~15% likely enhanced by weathering	poorly preserved matrix, some red dot diagenesis
2	36	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand), other skeletal assemblage diverse and consistent throughout sample, red algae <5%, less abundant than coarser samples, fairly typical of finer grained samples (red algae is likely present, just harder to see)	mud to v. coarse, coarse dominant	moderate	moderate	coarsens up to lower v. coarse dominant at top of sample	modalic ~15-20%	upward coarsening may be a gradational contact in middle of sample, lower and up thirds show no gradation
2	37	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, additionally, lower medium well rounded volcanic clasts are visible ~10%	mud to v. coarse (coarse dominates)	moderate	abundant	none	modalic ~20%	
2	39	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (coarse dominates)	moderate	abundant	preferential orientation shows dip to south ~10°	modalic ~20%	red algae generally v. coarse
2	40	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (lower coarse dominates)	moderate	moderate to abundant		modalic ~15%	red algae generally v. coarse
2	41	X	CGSPG	Packstone	Vermatid Fragments ~15%, Bivalve Fragments 5%, Micrite/Neomorphic mud ~25%, Foraminifera and Ostracods ~5%	v. coarse to mud	moderate to well	none visible	Moldic and interparticulate ~50%	molds are locally enhanced by weathering
2	42		FGSPPW	Wackestone/Packstone	red algal fragments (.2 cm) ~5%, bivalve Fragments <5% to .2 cm, coral Fragments to .3 cm <5%, unidentifiables ~10% peloids ~10%	mud to coarse (v. coarse rare)	well	none	modalic ~10%	likely just fine grained Packstone, no wk
2	43		CGSPG	Wackestone/Packstone	diverse fauna, allochem concentration ~25-40%, Large bivalves (~1.8 cm) groundmass Micrite	mud to v. coarse (plus large bivalves)	moderate to well	none	modalic ~10%	bivalves highly ornamented but disarticulated
2	44		FGSPPW	Wackestone/Packstone	diverse fauna, allochem concentration ~25-30%, all else Micrite	mud to v. coarse (plus large bivalves)	moderate to well	none	modalic ~5 - 10% also some rare interparticulate	
2	45		CGSPG	Packstone	skeletal assemblage diverse but lacking in red algae, most common skeletal component appears to be Vermatid worms, but dominance is minor	mud to v. coarse (coarse dominates)	well	none	modalic and interparticulate ~10-15%	
2	46	X	RAPG	Wackestone/Packstone	Bivalve Fragments ~5%, Peloids ~15%, Micrite (Neomorphic Mud) ~25%, Red Algae Fragments ~20%	v. coarse to mud	moderate to well	none	Modalic ~25%	thin section has a large number of bubbles in the slide, some nice preservation of Ostracods molds
2	47		CGSPG	Packstone	skeletal assemblage diverse but lacking in red algae, most common skeletal component appears to be Vermatid worms, but dominance is minor	mud to coarse (coarse dominates)	well	none	modalic and interparticulate 10%	
2	48		CGSPG	Wackestone/Packstone	skeletal assemblage diverse but lacking in red algae, most common skeletal component appears to be Vermatid worms, but dominance is minor	mud to coarse (coarse dominates)	well	none	modalic and interparticulate 10%	some red (and black to a lesser extent) dot diagenesis and staining of some of the algal allochems
2	49		CGSPG	Wackestone/Packstone	skeletal assemblage diverse (meaning there is a bit of everything except volcanic clasts), most common skeletal component appears to be Vermatid worms, but dominance is minor	mud to coarse (coarse dominates)	well	none	modalic and interparticulate 10%	abundant infilled bores on moldic bivalve fragments, also evidence for burrowing in matrix

2	50	CGSPG	Packstone	skeletal assemblage diverse (meaning there is a bit of everything except volcanic clasts), most common skeletal component appears to be Vermatid worms, but dominance is minor	mud to coarse (medium - coarse dominates)	well	moderate	none	modalic and interparticular 10%		
2	51	CGSPG	Packstone	skeletal peloidal, skeletal assemblage diverse and consistent throughout sample, finer grain size makes specific identification difficult	mud to lower coarse	well	moderate to abundant	none	modalic ~10%		
2	52	RAPG	Wackestone/Packstone	skeletal peloidal, skeletal assemblage diverse and consistent throughout sample, higher concentration of red algal fragments ~15%	mud to v. coarse (medium to coarse dominates)	moderate to well	minor to moderate	none	modalic ~10%, fractures <5%	high concentration of red algae may be related to decreased erosion of Micrite and dissolution of skeletal components... or just a different diagenetic history. Nicely preserved sample	
2	53	CGSPG	Packstone	skeletal/peloidal assemblage, largest clasts are Vermatids (.7 cm) , rare small (<1cm) rhodoliths	mud to v. coarse (medium to coarse dominates)	moderate to well	moderate	none	modalic ~15%		
2	54	CGSPG	Packstone	skeletal peloidal, skeletal assemblage diverse and consistent throughout sample, with addition of large (>1cm) coral clasts	mud to v. coarse (medium to coarse dominates)	moderate to well	moderate	none	modalic ~15%, intraparticular in coral clasts ~10%		
2	55	CGSPG	Packstone	large Vermatid clast (1.5 cm) Vermatid fragments abundant in sample, other constituents diverse and consistent	mud to Pebble (V. coarse dominant)	well/ moderate	abundant	none	modalic and interparticular 20-25 %		
2	56	FGSPPW/ CGSPG	Wackestone/Packstone	skeletal peloidal assemblage, local pockets of wackestone, Grades laterally into Packstone.	mud to v. coarse (coarse dominates)	moderate	moderate	none	modalic ~15%	some augmentation of porosity by weathering, also more may have been wk, but with erosion, those portions have eroded out.	
2	57	RAPG	Packstone	Skeletal peloidal assemblage, red algae form largest grains	mud to v. coarse (coarse to v. coarse dominant)	moderate	minor to abundant	auto Breccia?	modalic ~5%	some fractures infilled with Mudstone/wk with similar content, just finer and more dispersed may be burrowing, may be fracturing, no grains were visibly fractured and path is slightly undulatory.	
2	18b	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to Pebble (v. coarse dominates)	moderate to poor	abundant	none	modalic ~15 % enhanced by weathering of Micrite		
2	19b	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~1 cm) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample, large, ornamented bivalve molds visible on weathered surface (rare)	mud to v. coarse, coarse dominant	well	moderate	none	modalic ~5 % enhanced by weathering of Micrite		
2	45b	X	CGSPG	Packstone	Vermatid Fragments ~15%, Red Algae ~15%, Bivalve Fragments ~10%, Peloids ~10%, Micrite (Neomorphic Mud) ~25%	Pebble ~1.2 cm to mud	well	moderate	none	Modalic ~25%	sample contains rhodolith and evidence for bioturbation Possibly, may be a ring of coarser grains around a slightly less dissolved section. Could be nothing
2	46b	X	RAPG	Packstone	Red Algae Fragments ~20%, Vermatid Fragments ~15%, Neomorphic Mud ~10%	v. coarse to mud	moderate	fracturing abundant	none	Modalic ~55%	everything but Red Algae and Vermatids is altered.
2	47b	CGSPG	Packstone	skeletal peloidal, allochems as other skeletal/peloidal Packstone described above, plus presence of large coral (P) clast (4 cm cut side ~6 cm weathered exposure)	mud to Pebble (coarse to v. coarse dominates)	poor	abundant	none	modalic ~30 (or higher) ~ 20% interparticular in large coral clast % enhanced by weathering of Micrite	coral clasts show more abrasion than other clasts and are significantly larger	
2	48b	RAPG	Packstone	skeletal peloidal, red algal fragments and small (~coarse sand) rhodoliths (~10%), other skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (lower coarse dominates)	moderate	moderate to abundant		modalic ~15%	red algae generally v. coarse and less common than previous sample (<=5%)	
2	49b	CGSPG	Packstone	skeletal peloidal, red algal fragments (~coarse sand), other skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (v. coarse dominates)	moderate	moderate to abundant	burrow running through sample filled with material similar to sample 49	modalic ~15%	red algae generally v. coarse and less common than previous sample (<=5%)	

2	50b		CGSPG	Packstone	skeletal peloidal, skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (v. coarse dominates)	moderate to poor	moderate to abundant	some geopetals within Vermatid tubes - appears that there is no significant (or any) tilting	moldic ~15%	red algae generally v. coarse but not present in great quantities
2	51b		CGSPG	Packstone	skeletal peloidal, skeletal assemblage diverse and consistent throughout sample	mud to v. coarse (v. coarse dominates)	moderate	abundant		moldic ~25%	red algae generally v. coarse but not present in great quantities
2	8b	X	RAPG	Packstone	Red Algae 35% Neomorphic Mud 15%	Pebble 1.2 cm to v. fine	moderate to well	abundant	none	Moldic ~50%	Skeletal grains not present, molds indicate that they would be too rounded to identify
3	1	X	CGSPG	Grainstone	Bivalve Fragments ~25%, Coral Fragments ~10%, Red Algae Fragments ~5%, rare Volcanic clasts (fine sand) rare Foraminifera, Sparry Calcite ~45% rare Echinoderm Fragments	Pebble to medium sand	poor	increasing abrasion with increasing grain size	none	interparticular ~15% (mostly in Corals) some rare Moldic	1st sample where Moldic porosity hasn't been main porosity type (save heavily re-cemented samples) - good preservation of Bivalve (Oyster?) Fragments, low presence of Red Algae
3	2		CGSPG	Packstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other unidentifiables	mud to v. coarse (coarse dominates)	moderate to well	abundant	none	moldic ~15-20%	sample is salty
3	3	X	RAPG/ CGSPG	Packstone/Grainstone	Red Algae ~15%, Green Algae ~5%, Bivalve Fragments ~5%, Bryozoan Fragments ~15%, Coral Fragments 10%, Peloids ~5%, Foraminifera rare, Gastropods rare Micrite/Neomorphic Mud ~ 15%, Sparry Calcite ~15%	Pebble (1.5cm) to v. fine	poor	abundant fracturing moderate to poor abrasion	none	Moldic, vuggy 15%	Sparry Calcite is secondary and infills fractures and lines molds, locally pockets of Grainstone similar in content to rest of sample, minus the mud
3	4		BFR	Packstone/Rudstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other with the addition of large, (4 cm, but likely larger than hand sample) bivalve (oyster) shells	mud to Pebble (coarse dominates)	poor	abundant (large shells show moderate to minor)	none	moldic ~10-15%	oyster shells show abundant boring but are well 'ornamented'
3	5		FPWP	Mudstone/Wackestone	peloidal - grain concentration ~10-15% -- need to check foram content to see benthic vs pelagic concentration (didn't see any forams the 1st time.)	mud to v. coarse sand (peloids)	moderate	minor	none	moldic <5%	sample is salty - molds are likely small skeletal fragments
3	6		BFR	Packstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other with the addition of large (~4cm and larger) bivalve (oyster) shells	mud to Pebble (coarse dominates)	poor	abundant (large shells show moderate to minor)	none	moldic ~10%	
3	7		CGSPG	Packstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other, large oyster fragments largely absent, coral clasts [resent but rare, highly abraded so ID is difficult	mud to Pebble	poor	v. abundant on large grains, abundant throughout	none	moldic ~10% and interparticular ~5%	
3	8		BFR	Packstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other with the addition of large, (4 cm, but likely larger than hand sample) bivalve (oyster) shells	mud to Pebble (coarse dominates)	poor	abundant (large shells show moderate to minor)	none	moldic ~15%	oyster shells partially dissolved
3	9	X	CAG/ CGSPG	Grainstone	Coral ~ 15%, Bryozoan Fragments ~10%, Sparry Calcite ~25%	Pebble (1.3cm) to coarse sand	poor	abundant	none	Moldic ~50%	no preservation of actual Skeletal material, all Skeletal components based on Moldic remains, check this, but I think this is a thin section of a coral intraclast.
3	10		CGSPG	Packstone	skeletal and peloidal, skeletal components include bivalve Fragments, Vermatid Fragments, Gastropods Foraminifera, Ostracods, rare red algae and other unidentifiables	mud to v. coarse (coarse dominates)	moderate to well	abundant	preferential orientation of clasts ~5-10 degree dip to southwest	moldic ~20-25%	sample is lighter in color than previously described
3	11		FGSPPW	Mudstone/Wackestone	skeletal Fragments ~15-25% of sample, include Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant burrow/borings that are now moldic	mud to .v. coarse (mud dominates)	well to moderate	minor to abundant	none	moldic ~5-10%,	most of the porosity seems to be related to the bioturbation (which may actually be skeletal fragments.)

3	12	FGSPPW	Wackestone/Packstone	skeletal Fragments ~15-25% of sample, include Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant burrow/borings that are now moldic	mud to v. coarse(coarse dominant)	moderate	abundant	none	moldic ~5%	likely bioturbated, mottled appearance	
3	13	FGSPPW	Wackestone/Packstone	skeletal Fragments ~15-25% of sample, include Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant burrow/borings that are now moldic	mud to v. coarse(coarse dominant)	moderate	abundant	none	moldic ~5%	similar to sample 12	
3	14	FGSPPW	Wackestone/Packstone	skeletal Fragments ~15-25% of sample, include Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant burrow/borings that are now moldic	mud to v. coarse(medium/coarse dominant)	moderate	abundant	none	moldic ~5%	similar to sample 12	
3	15	FGSPPW	Wackestone/Packstone	skeletal Fragments ~15-25% of sample, include Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant burrow/borings that are now moldic in lower portion, upper portion is algally laminated	mud to v. coarse(medium/coarse dominant)	moderate	abundant	sharp contact marked by dissolution features with algal boundstone (stromatolites)	moldic ~5%	similar to sample 14	
3	16	X	FGSPPW/ AB	Grainstone/Packstone/ Boundstone/Grainstone	Peloids ~15-20%, coated grains ~5%, Bivalve Fragments ~5% algal laminations ~15%, Sparry Calcite 20%	coarse to mud	well	upper abundant rounding lower moderate abrasion	subtle coarsening upward above algal laminations, algal laminations	Moldic, fenestral, fracture ~15%	lower portion of sample is Sparry Calcite, well cemented Peloidal with preservation of coated grains and Coral Fragments, this is sharply overlain by algal laminations and low angle cross bedded laminations, algal material grades up into massive algal growth with Peloids and Foraminifera entrained, moving up, a gradational contact between the algal laminations and Peloidal grainstone really interesting sample
3	17	A(S?)BS	Boundstone/Grainstone/Packstone	lenticular pockets of skeletal Fragments ~15-25% , including Ostracods, bivalve Fragments, Foraminifera, Vermatid Fragments, coral Fragments and red algal Fragments abundant, lenticular pockets of coated grain (grainstone), packaged by algal boundstone and intraclastic Grainstone	mud to Pebble/cobble	poor to well	minor to abundant		moldic, fenestral, interparticular, vuggy all together <5%	very diverse sample. Good example of TCC amalgamation/heterogeneity	
3	18	BFR	Packstone/Rudstone	skeletal and peloidal, skeletal components include bivalve fragments, Vermatid fragments, gastropods, Foraminifera, Ostracods, rare red algae and other with the addition of large, (4 cm, but likely larger than hand sample) bivalve (oyster) shells	mud to Pebble (coarse dominates)	poor	abundant (large shells show moderate to minor)	none	moldic ~10-15%	no elevation written on bag (41.7 m according to strat section)	
3	19	A(S?)BS	Boundstone	sample dominated by algal laminations, skeletal components are diverse and rare, peloids and mud intraclasts more common but still <10% of sample	mud to coarse, mod dominant	well	minor to abundant	algal laminations (stromatolites)	moldic and fenestral <5%		
3	8b	CGSPG	Packstone	skeletal and peloidal, skeletal components include bivalve Fragments, Vermatid Fragments, Gastropods Foraminifera, Ostracods, rare red algae and other unidentifiables	mud to v. coarse (v. coarse dominates)	well	abundant	none	moldic ~20%		
3	9b	CGSPG	Packstone	skeletal and peloidal, skeletal components include bivalve Fragments, Vermatid Fragments, Gastropods Foraminifera, Ostracods, rare red algae and other unidentifiables	mud to v. coarse/Pebble (v. coarse/Pebble dominates)	well	abundant	none	moldic ~20%	similar to 8b, but generally coarser	
4	1	X	CGSPG/ VCC	Packstone	Volcanic Fragments ~10%, ooid Fragments ~15%, Peloids ~10%, Coral Fragments ~5%, Bivalve Fragments ~5%, Micrite/Neomorphic Mud ~25%	v. coarse to v. fine	moderate	v. abundant rounding	none	Moldic (ooMoldic)~25%	many of the ooid appear to have been broken
4	2		CGSPG/ VCC	Packstone	skeletal peloidal - diverse assemblage with no clear dominant skeletal type	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%	
4	3	X	RAPG/ VCC	Packstone/Grainstone	Volcanic Fragments ~10%, Red Algae Fragments ~15%, Coral Fragments ~15%, Bivalve Fragments ~10%, Sparry Calcite 5%, Micrite ~15%	Pebble (1.1cm) to mud	moderate to well	moderate to abundant	none	Moldic and vuggy ~30%	Sparry Calcite appears to be secondary, large crystal form encompasses Bivalves, orientation questionable
4	4		CGSPG/ VCC	Mudstone/Wackestone/Packstone	diverse content, coral Fragments to .5 cm, rounded volcanic clasts ~1 cm, bivalve Fragments to .2 cm, and a myriad of abundantly abraded skeletal Fragments	mud to Pebble (medium/coarse dominates)	poor	minor to abundant	none	moldic ~10%	lenses of mud occur throughout, large grains dispersed throughout entire sample
4	5		FGSWP/ VCC	Wackestone/Packstone	content similar to sample 2, but much sparser, sample appears to be ~20% clast, 70% matrix	mud to coarse, mud dominant	well to moderate	moderate	none	moldic ~10%	mottled appearance and some healed fractures? Could by bioturbation
4	6		CGSPG	Packstone	Diverse assemblage with no clear dominant grain, with the addition of large (~1cm) red algal clasts (rare)	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%	

4	7	CGSPG/ RAPG	Packstone	similar to sample 2, with the addition of large ~1cm coral fragments and rare, v. coarse/Pebble red algae	mud to Pebble	moderate	abundant	none	moldic ~15%, interparticular <5%	cannot determine genus of coral	
4	8	CGSPG	Packstone	skeletal peloidal - diverse assemblage with no clear dominant skeletal type	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%		
4	9	CGSPG	Packstone	skeletal peloidal - diverse assemblage with no clear dominant skeletal type	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%		
4	10	CGSPG	Packstone	similar to sample 6 with additional rare (1 in sample) large Vermatid fragments	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%		
4	11	CGSPG	Packstone	skeletal peloidal - diverse assemblage with no clear dominant skeletal type	mud to v. coarse (coarse dominates)	well	moderate to abundant	none	moldic ~15%		
4	12	RAPG	Packstone/Grainstone	assemblage is likely similar to previously described samples, though recrystallization has masked most smaller grains	mud to Pebble (coarse dominant)	moderate	moderate	none	interparticular ~5%	large algal Grains have porosity within the cores (presumably dissolved nuclei for coated Grains) - sample is highly recrystallized black dot diagenesis abundant	
4	13	FPWP	Packstone/Wackestone/Mudstone	rare algal clasts to .4cm, bivalves present, as well as peloids	mud to v. coarse (medium/coarse dominant/mud dominant)	well	minor	none	<5% (if any)	very tight, no conchoidal fracture so it isn't all mud, a thin section would be helpful, black dot diagenesis abundant	
4	14	FPWP/ FGSWP	Wackestone/Packstone	similar to sample 13 with a slightly higher (+5%) concentration of Grains	mud to v. coarse (medium/coarse dominant/mud dominant)	well	minor	none	<5% (if any)	very tight, no conchoidal fracture so it isn't all mud, a thin section would be helpful, black dot diagenesis abundant	
4	15	BFR	Packstone	similar to 13 with significantly more visible peloids, as well as oyster shells up to 4 cm in sample other skeletal grain concentrations likely increased as well	mud to Pebble	moderate/poor	moderate	none	moldic ~10%		
4	16	CGSPG	Packstone	diverse skeletal content with no clear dominant component, skeletal fragments include algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse	moderate	moderate	none	moldic ~10-15%	contains a 'healed' fracture	
4	17	X	CGSPG	Grainstone	undistinguishable Skeletal components (Moldic) ~40%, Coral Fragments 5%, Bivalve Fragments ~5%, Sparry Calcite 40%	Pebble (Coral Fragments to 1.5 cm) to crystalline	moderate	v. abundant	none	Moldic and interparticular, intracrystalline ~50%	little to no mud preserved, some rare Micrite haloes around some of the smaller grains, but appear to be rarely preserved.
4	18	CGSPG	Packstone	similar to sample 16 with the red algal component being coarser (up to .4 cm)	mud to v.v. coarse	moderate/poor	moderate/abundant	none	moldic ~10%	similar to other red algal Packstone	
4	19	A(S?)BS	Boundstone	algal dominated, pockets of material similar to that seen in sample 18, algae is both encrusting and massive	mud to v. coarse (mud dominant)	poor	moderate/abundant	none	moldic<5%		
4	20	X	RAPG	Packstone/Grainstone	Red Algae ~10%, Oyster Fragments ~15%, Bryozoan ~10%, Bivalve Fragments ~10% (largely Moldic), Coral Fragments~10%, Red Algae ~5%, rare Foraminifera, rare Vermatid Fragments, v. rare (1) Volcanic fragment, Neomorphic Mud ~10%, Sparry Calcite ~10%	Pebble (~2.3 cm) to mud	poor	moderate to abundant	none	Moldic and intra/interparticular ~30%	difficult to tell if original groundmass was dissolved, or if this grain support structure with veneer of cement and potential meniscus cement lacked a filling groundmass, preserved mud is within large grains
4	21	BFR	Packstone/Rudstone	similar to sample 16 with the addition of a large (>5cm long and 1.5 cm thick) oyster fragment	mud to Pebble	poor	moderate/abundant	none	moldic ~10%	oyster is resistant to dissolution	
4	22	BFR	Packstone/Rudstone	similar to sample 21 with a higher concentration of oyster fragments ~10-15%	mud to Pebble	poor	moderate/abundant	none	moldic ~10%		
4	23	CGSPG	Packstone/Rudstone	diverse skeletal content with no clear dominant component, skeletal fragments include algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	moderate/abundant	none	moldic ~10%	sample is very fragile	
4	25	CGSPG	Packstone/Rudstone	diverse skeletal content with no clear dominant component, skeletal fragments include algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	moderate/abundant	none	moldic ~30-40%	porosity greatly enhanced by weathering	
4	26	CGSPG	Packstone/Grainstone	diverse skeletal content with no clear dominant component, skeletal fragments include algae (red and green, red more common than green), bryozoan, coral bivalve Fragments (oyster fragments rare <1.5cm), Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse (larger clasts rare)	moderate/poor	abundant	none	moldic ~30%	all Allochems (excepting oyster fragments) have been dissolved	
4	27	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse/Pebble	poor/moderate	abundant	none	moldic ~30%		

4	28	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	abundant	none	modalic ~30%		
4	29	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	v. abundant	none	modalic ~30%		
4	30	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	abundant	none	modalic ~25%		
4	31	X	CAG	Grainstone	Intraclasts ~15%, Coral ~25%, Sparry Calcite ~25%, Bivalve Fragments ~5%, Neomorphic Mud ~5%	Pebble (2.3 cm) to mud	poor	abundant	none	Modalic, interparticular ~30-35%	large Intraclasts shows some autobrecciation- Intraclasts is fine grained Skeletal Peloidal packstone with no porosity, Coral clasts are oriented randomly and due to crystal growth in the pore spaces it can be difficult to see where one piece of Coral ends and another begins
4	32	X	??	Crystalline	Sparry Calcite 90-95%	Coarse crystalline to fine crystalline			layering visible which is cross cut by a fracture, all filled with similar crystal fabrics	intercrystalline ~10%	layering alternates between coarse bladed calcite? With calcite mosaic crystals filling the majority of the pore space with finer crystalline mosaic textures. Fracture is similar to coarser fabric. Above and below layering is large crystalline (up to 4 mm) mosaic crystalline growth with a Micrite halo of an undulatory contact at which crystal fabric reverts to small (~.5-1 mm) and coarsens away, no preference for vertical observed.
4	33	P?/ T?F	Framestone	coral makes up 90% of sample	n/a	n/a	n/a	brain growth form		interparticular ~10%	appears to be porites, but highly recrystallized so difficult to be certain. insitu-ness unknown
4	34	CGSPG	Packstone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse	moderate	moderate	none	modalic ~10-15%		all allochems moldic, red and black dot diagenesis visible, sample highly recrystallized
4	35	CGSPG	Packstone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse	moderate	moderate	none	modalic ~10-15%		all chems moldic, red and black dot diagenesis visible
4	36	CGSPG	Packstone/Wackestone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse (v. coarse dominates)	moderate	moderate	none	modalic ~15%		all allochems moldic, red and black dot diagenesis visible
4	37	CGSPG	Packstone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse	moderate	moderate	none	modalic ~10-15%		all allochems moldic, red and black dot diagenesis visible
4	38	X	BFR	Grainstone	Oyster Fragments ~20%, Intraclasts 10% (*), Bryozoan Fragments ~5-10%, Gastropods Fragments ~5%, Red Algae Fragments ~5%, Foraminifera <5%, Bivalve Fragments <5%, rare Volcanic grains (1 in sample), Sparry Calcite ~30%	Pebble (1.8 cm) to fine	poor	highly fractured, ornamentation preserved	none	intraparticular ~10%, Modalic ~10%	no orientation to clasts, presence of a large unknown fossil, appears to be part of Oyster shell fragment, but has a texture similar to that of a Coral? Possibly encrusting
4	39	CGSPG	Packstone/Wackestone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse (v. coarse dominates)	moderate	moderate	none	modalic ~15%		all allochems moldic, red and black dot diagenesis visible
4	40	CGSPG	Packstone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse	moderate	moderate	none	modalic ~10-15%		all allochems moldic, red and black dot diagenesis visible
4	41	CGSPG	Packstone	algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse (medium to coarse dominates)	moderate	moderate	none	modalic ~10-15%		
4	16b	BFR	Packstone/Rudstone	same as sample 16, with the addition of a large (4 cm) oyster fragment	mud to Pebble	moderate/poor	moderate	none	modalic ~10%		oyster is resistant to dissolution, but shows abundant boring
4	26b	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to v. coarse (larger clasts rare)	moderate/poor	abundant	none	modalic ~30%		assemblage as above for 15, recrystallization as for 26
4	30b	CGSPG	Packstone/Grainstone	no clear dominant. algae (red and green, red more common than green), bryozoan, coral bivalve Fragments, Gastropods and gastro Fragments, Foraminifera and peloids	mud to Pebble	poor	v. abundant (abundant rounding, more so than other samples)	none	modalic ~15%		oyster fragments are v. abraded very rounded)
5	1	VC	Packstones/Grainstone? volc	volcanic fragments(80%)	coarse sand to 4 cm	poor	abundant rounding	none	low-intragranular		
5	2	RAPG (RABc?)	Carbonate Breccia	large clasts of boundstone (red algal)fractured and infilled with peloidal Packstone w/ muddy intraclasts	coarse to Pebble (v coarse dominates)	none - autoclastic?	minor rounding of smaller intraclasts, larger clasts show no signs of rounding	none	none- very low		highly recrystallized.

5	3	X	CGSPG	Packstone	Coral Fragments 15%, Bryozoan Fragments ~15%, Red Algae Fragments ~10%, Bivalve Fragments ~10%, Vermatid Fragments ~5%, Green Algae Fragments ~5%, rare Foraminifera, rare Ostracods, rare Echinoderm Fragments, Micrite/Neomorphic Mud ~ 30%	v. coarse to v. fine	well	moderate to abundant	none	Moldic ~10%	very muddy, abundant micritization. Green Algae may actually be a significantly more important component
5	4		CGSPG	packstone	bivalve fragments 20% up to .5 cm Foraminifera <10%, bryozoan fragments 10? Up to .3 cm, red algal fragments <10% up to .3 cm peloids?	lower coarse to .5 cm	poor	abundant fracturing, moderate rounding	none	moldic high, 30% some preserved intragranular> (bryozoans?)	
5	5		CGSPG	Packstone	red algae - <5% .2 cm, bivalve Fragments up to .3 cm 5%, peloids 50% largely unidentifiable, Vermatids ~20%	medium to upper coarse	none	abundant	none - but some preferential orientation - loose preference though	moldic high porosity	small black dots visible
5	6		CGSPG	Packstone	peloids - 40% Foraminifera 10% rare gastro and bivalve Fragments up to .2 cm, rare red algal Fragments up to .2 cm	medium to very coarse sand	moderate	abundant abrasion and rounding of larger grains	none	some moldic? Micro? And inter/intragranular.	allochems are mostly intact, but difficult to id
5	7		BFR	Packstone	Bivalves 20% 1-8cm, Foraminifera<5% Gastro5-10%<1cm	Medium sand to 8 cm bivalves	moderate to poor	minor abrasion	none	Moldic - 45%? Very high	allochems are preserved as molds.
5	8		CGSPG	Packstone	Foraminifera <5% .1 cm, bivalve 5-10% <1cm, gastro5% <.5 cm, peloids 80%?	lower coarse sand to 1 cm	moderate to poor	minor abrasion	none	Moldic - 45%? Very high	allochems are preserved as molds.
5	9		BFR	Packstone	large bivalve fragment (mold) - 4 cm, all other Grains are moldic or micritized? And largely unidentifiable	medium to v coarse sand	poor	abundant	none	some moldic? Micro? And inter/intragranular. V. fine, difficult to tell in hand sample.	allochems are mostly intact, but difficult to id sample very soft
5	10	X	CGSPG	Packstone	Peloids ~ 10%, Neomorphic Mud~10%, Oyster Fragments ~5%, Bivalve molds ~5% Red Algae Fragments~5% unidentifiable Skeletal components (molds) ~20% , rare Volcanic grains <5%	large Oyster Fragments (up to 1 cm) molds of Allochems are v. large sand sized, preserved material is v. fine sand sizes	moderate to poor	abundant rounding and abrasion on most grains, Oyster Fragments show less	fracture with infilling sediment that is similar in content, but if a slightly darker color	Moldic, intercrystalline ~40%	fracture with infill, some void filling cementation, preserved sediment appears to have been recrystallized
5	11		CGSPG	Packstone	bivalve molds - nicely ornamented 10%, up to .3 cm, <5% red algal fragments, to .2 cm, other allochems unidentifiable	medium to coarse, v coarse skeletal components rare	poor	moderate, ornamentation preserved in bivalve molds	none	moldic	interesting preserved steinkern, either different diagenesis or different filling sediment?
5	12		FGSWP	Packstone	rare red algae clasts up to .2 cm, abundant peloid molds 60%, bivalve and other unknown molds 5%	medium to fine rare larger clasts	none	abundant	none	moldic high porosity - but very fine pores	
5	13		FGSWP	Packstone	medium sand grain sized moldic clasts - peloids or possibly ooids floating in mud matrix? (moldic as with most samples above)	fine to medium	poor	all grains rounded	none	moldic moderate to high.	well cemented/ lithofied?
5	14	X	CGSPG	Grainstone	Peloids ~10%, Red Algae 5%, Oyster Fragments ~15%, Bivalve Fragments ~5%, Green Algae Fragments ~5%, Coral Fragments ~10%, Micrite (Neomorphic Mud) ~ 15%, Sparry Calcite ~10% rare Volcanic clasts	Pebble (1cm) to mud	moderately well	abundant	none	Moldic ~35%	similar to other descriptions, Micrite (Neomorphic Mud) confined to interparticular space in larger particles
5	15	X	BFR	Grainstone	Coral Fragments ~20%, Bivalves ~15%, Vermatids ~10%, Red Algae ~5%, Green Algae? Rare, Echinoderm Fragments rare, Foraminifera rare, Bryozoans rare, Sparry Calcite, 15%	Pebble to v. fine	poor	abundant fracturing abrasion minor on most Skeletal grains	none	Moldic 35%	large Bivalves filled with Skeletal Peloidal packstone containing Bryozoans, Red Algae, Green Algae, Foraminifera, Gastropods, Coral Fragments, Echinoderm Fragments and Bivalve Fragments
5	16		BFR	Packstone	red algal grains 10% up to .75 cm, some bivalve fragment molds, nice 2.8 cm oyster shell	medium to 2.8 cm, lower coarse sized sand Grains dominate (moldic)	poor	abundant - oyster fragment abraded	none	moldic moderate to high	

5	17		CGSPG	Packstone	peloids - 40% Foraminifera 10% bivalves up to 1.2 cm 5%, gastro up to 4 cm, red algae 10-15% up to .2 cm	upper medium to rare Pebble	none	red algae well rounded, bivalve molds show fine detail	none	modalic, intergranular 30%	
5	18		CGSPG	Packstone	rare red algae clasts up to .2 cm, abundant peloid molds 60%, bivalve molds <5%, unknown - see comment	medium to lower very coarse, and red algae up to .2		highly rounded and abraded	preferential orientation	modalic, high porosity	curious 'sponge-like' allochem - some kind of bryozoan?
5	19	X	RAPG	Grainstone	Red Algae Fragments (and Rhodoliths) ~20%, Coral Fragments ~ 15%, Foraminifera ~5%, Volcanic clasts ~5%, Bryozoan Fragments ~5% Sparry Calcite ~10%	Pebble (~2 cm Coral clast) to coarse sand	moderate to poor	abundant rounding, moderate fracturing	none	Modalic and inter particular ~40%	nice rounded Coral clast, rhodoliths present, as well as rare Volcanic grains that are well rounded. Sparry Calcite is present in the form of thin, evenly coating cement (Possibly meniscus, but doesn't seem abundant.)
5	20		RAPG	Packstone	red algal fragments - 25% up to .9 cm, rare bivalve fragments? Other allochems largely unidentifiable	medium to v. coarse and rare large clasts	poor	red algal fragments well rounded, moderate abrasion for others	none	modalic, moderate to high	
5	21	X	RAPG	Grainstone/Packstone	Red Algae ~20%, Coral Fragments ~10%, Bivalve Fragments ~10%, rare Gastropods, rare Foraminifera, Sparry Calcite 15%, Neomorphic Mud 5%	Pebble (3 cm) to v. fine	poor	abundant	none	Modalic, vuggy 40%	large clear rhodolith preserved, Coral Fragments are interesting, clearly visible 'brain' texture
5	22		RAPG	Packstone(possibly Grainstone)	Rhodoliths <10%, .3 to 1 cm, coral fragments >10% up to 5cm(moldic) peloids 60-70%, bivalves 10-15%, .5-1.5 cm, rare gastro	Pebble to medium sand	poor	moderate abrasion	none	modalic -35? Moderate	allochems are preserved as molds, excepting rhodoliths
5	23		RAPG	packstone	Red algae 10% (Rhodoliths 5%, .5-1cm, fragments <5%, <.1cm) bivalve5-10%<1.5cm gastro5%<.5cm, peloids 40% bryozoans 25%.1-1.5CM	lower coarse sand to 1.5 cm	moderate to poor	moderate abrasion	none	modalic high, intragranular low	
5	24		RAPG	Packstone	red algal fragments, ~20% peloids? 10%, unidentified skeletal molds 70%	coarse to v. coarse	poor to moderate	v. abundant	some preferential orientation	modalic moderate to high	
5	25	X	CGSPG	Grainstone	Coral Fragments 10%, Red Algae 5%, Foraminifera 5%, Green Algae 5%, Sparry Calcite 25%	Pebble (2 cm) to v. fine	moderate to poor	abundant	burrowing infilled with *	Modalic, intraparticulate ~50%	burrow is infilled with wk/packstone containing Red Algae, Bivalve Fragments, Foraminifera, rare Coral Fragments, Bryozoan Fragments and Peloids
5	26		RAPG	Grainstone (pack?)	rhodolith fragments 15% coarse sand to .3 cm, bivalve/gastro fragments, 25% to .5 cm, Foraminifera ~5%, benthic?, peloids - 50%	medium to very coarse sand	moderate to poor	fracturing, moderate abrasion	none	intra and rare inter-granular	
5	27	X	RAPG	Grainstone	Red Algae ~ 15%, Bivalves (Moldic) ~10%, Bryozoan Fragments ~5%, volcanic clasts <5% (1 Possibly in sample), rare Peloids?, rare Foraminifera, rare Gastropods Fragments	Pebble (1.2cm) to medium	moderate to poor	abundant to moderate	none	Modalic ~75%	porosity enhanced by weathering of existing molds, some Possibly early stage (small) rhodoliths - oncolites?
5	28		RAPG	Packstone Boundstone	encrusting red algae - 50% (likely a large rhodolith) Foraminifera <5%, Vermatid? Worms <5% up to .2 cm, bivalve fragments up to .7 cm 10%, red algae fragments up to .2 cm ~10%, abundant peloids	medium to v. coarse	poor	abundant	none	intergranular in rhodolith, modalic in Packstone moderate (35%) in both	
5	30	X	RAPG	Grainstone	Red Algae ~15%, Skeletal Fragments ~15% (includes Bivalve, Gastropods, Bryozoan, Foraminifera, rare Echinoderm and Green Algae?) Sparry Calcite ~15 %, mottled Sparry Calcite (thrombolite?) ~ 20%, Peloids 15%	Pebble 1.3cm to mud	moderate	abundant fracturing, Red Algae Fragments well rounded	none	Modalic, 20-25%	some thrombolitic material - massive, slight vuggy porosity development (also some of the 'black dot diagenesis' appears to be preferential dissolution, Possibly related to the presence of a Skeletal component?)
5	31		CGSPG	Packstone	bivalve fragments up to 1.5 cm 10%, red algae up to .4 cm ~5%, Vermatid worm tube fragments up to .3cm ~10%, unknowns and peloids 30%	medium to rare v. coarse, up to 1.5 cm	poor	moderate abrasion	none	modalic moderate to high, low levels on intergranular	
5	32		RAPG	Packstone	red algae, fragments 10% .3 to 1 cm, encrusting 10%, bivalve fragments 15-20% .2-1.5 cm, coral fragments up to .5 cm <5%, peloids 15-20%, Foraminifera 5%, bryozoan fragments 10%	upper medium to 1.5 cm	poor	abundant	none	intragranular 60%, intergranular ~10% modalic enhancement?	poorly cemented matrix, black dot diagenesis
5	33		RAPG	Packstone	red algae 20% up to .8 cm, bivalve fragment molds 20%, peloids abundant, gastro molds rare, large unknown mold in center (up to 1.3 cm at longest) possibly coral fragment.	medium to 1.3 cm	poor	abundant	none	modalic, very high, 45%	
5	34		RAPG/ BFR	Packstone	bivalves - up to 5 cm in H.S. 10-15%, red algae 20% .1 to .5 cm, Foraminifera <5%, peloids 20% rare coral fragments?	medium to 5 cm	poor	abundant abrasion and rounding of red algae, less on bivalves	none	modalic - low 10-20%? Generally constrained to bivalve / gastro molds, some intergranular	black spots likely related to diagenesis, well cemented
5	35		RAPG	Packstone/Grainstone	red algae clasts 15% up to .3 cm, Vermatids and unknown skeletal components 15%	?	?	?	none	low-intergranular - 5-10%	black spot diagenesis well developed
5	36		CGSPG	Packstone	gastro, bivalve and unknown molds 20	medium to v. coarse	poor	abundant	none	modalic	highly recrystallized.
5	37		RAPG	Grainstone (pack?)	red algae-40 % up to .4 cm, gastro/bivalve fragments up to .3 cm 15-20%, Foraminifera, 15% up to .2 cm, peloids and unidentifiables make up remainder	upper medium to .4 cm	poor	well abraded?	none	modalic, 15%, some possible intergranular	black spots likely related to diagenesis

5	38	FGSWP	Packstone	<5% of Vermatids (up to .2 cm), and bivalve fragments(up to .1 cm), <10% red algae up to .3 cm, moldic peloids dominate, unidentifiables common (micritized grains?)	Rare coarse clasts, most upper medium to upper fine	poor	abundant	none	moldic. High.	some black dot diagenesis, very soft matrix.	
5	39	CGSPG	Packstone	red algae - <5% .2 cm, bivalve fragments up to .3 cm 5%, peloids 50% rare Gastropods up to 1.2 cm, bryozoan fragments	medium to v. coarse	moderate to well	well rounded, bivalve fragments fractures	coarsens up	moldic and some intergranular, rare intragranular? 35%	some black dot diagenesis	
5	40	CGSPG	Packstone	<5% of Vermatids (up to .2 cm), red algae fragments (up to .3 cm) and bivalve fragments(up to .1 cm)moldic peloids dominate	rare coarse clasts, most lower medium to lower fine fine	poor	abundant	none	moldic. High.	some black dot diagenesis, very soft matrix.	
5	41	RAPG	Packstone	red algal grains 10% up to .75 cm, some bivalve fragment molds, peloids abundant?	upper medium to v. coarse	poor	moderate to abundant	none	moldic high		
5	42	CGSPG	Packstone	red algae - <5% .2 cm, bivalve fragments up to .3 cm 5%, peloids 50% largely unidentifiable	medium to v coarse	moderate	abundant	none - but some preferential orientation - loose preference though	micro? intergranular likely, but not observed on hand sample scale.	black dot diagenesis present, but not abundant	
5	43	CGSPG	Packstone	red algal fragments, <5%, some Vermatid fragments? Bryozoan fragments? Skeletal components>.05 cm rare	medium to coarse	poor	abundant	nine	moldic? Fine scale - hard to see		
5	44	CGSPG	Packstone	peloids - 40% Foraminifera 10% rare gastro and bivalve fragments up to .2 cm, rare red algal fragments up to .2 cm	medium fine to coarse sand	moderate	abundant abrasion and rounding of larger grains	none	some moldic? Micro? And inter/intragranular. V. fine, difficult to tell in hand sample.	allochems are mostly intact, but difficult to id	
5	45	FGSWP	Packstone	<5% of Vermatids (up to .1 cm), red algae fragments (up to .1 cm) and bivalve fragments(up to .1 cm)moldic peloids dominate, most grains likely micritized?	rare coarse clasts, most medium (lower)	poor	abundant (lack of Allochems makes this more difficult	none	moldic moderate, (25%?) fine grained pores	very soft, very fine grained	
5	46	RAPG	rudstone?	bivalves 10% up to 1 cm, Vermatids 10%, up to 2.5 cm, red algae up to 1.5-2cm 30%, rare Foraminifera and Gastropods, possibly bryozoans as well	coarse to 2.5 cm	poor	rounding, low abrasion	none	inter and intragranular 25-35%, moldic 5%	minor black dot diagenesis	
5	47	RAPG	Packstone	red algae, fragments 15-20% .3 to .8 cm, encrusting 10%, bivalve fragments 15-20% .2-1.5 cm, coral fragments up to .5 cm <5%, peloids 15-20%, Foraminifera 5%, bryozoan fragments 10%	upper medium to 1.5 cm	poor	abundant	none	intragranular 60%, intergranular ~10%	poorly cemented	
5	48	CGSPG/ FGSWP	Packstone	red algae - <5% <.1 cm, bivalve fragments up to .2 cm 5%, peloids 50% largely unidentifiable, rare bryozoan fragments?	upper fine to lower coarse	poor	well rounded, abrasion likely high, too fine grained to tell	none	moldic, micro-scale, 25%? Difficult to estimate given fine scale		
5	49	BFR	Packstone	large bivalve fragment - 2.4 cm, all other grains are micritized? And largely unidentifiable	medium fine to v coarse sand	poor	abundant	none	some moldic? Micro? And inter/intragranular. V. fine, difficult to tell in hand sample.	allochems are mostly intact, but difficult to id sample very soft	
5	50	FGSWP	Packstone	peloids - 40% Foraminifera 10% rare gastro and bivalve fragments up to .2 cm, rare red algal fragments up to .2 cm	medium fine to lower coarse sand	moderate	abundant abrasion and rounding of larger grains	none	some moldic? Micro? And inter/intragranular.	allochems are mostly intact	
5	51	CGSPG	Packstone	Vermatids dominate, up to .6 cm across, also well rounded red algal fragments up to .2 cm, rare rounded volcanic fragments up to .2 cm, Foraminifera, bryozoan fragments and rare bivalve and gastropod fragments	medium to v coarse (some Vermatid casts up to .8 cm)	poor	Vermatids less rounded than the rest of the material, red algal fragments and volcanic clasts very rounded	none	moldic, and intraparticulate-high	well preserved fossil content, most molds are	
5	52	CGSPG	Packstone	bivalve frags.3-1.4 cm - 20%, Foraminifera 15%, coral fragments<5% (P?) peloids, 25%	coarse to 1.4 cm	poor	abundant abrasion	none	moldic - 40% very high	allochems are predominantly present as molds	
5	53	X	FGSWP	Packstone	Peloids 20%, Micrite ~15%, Red Algae ~5%, rare Foraminifera, rare Bivalve fragment(that isn't a mold)	Pebble ~1cm max to mud	moderate to well	abundant fracturing and abrasion	none - no real orientation of Bivalve molds	Moldic, vuggy? ~ 60%	extremely Moldic, dominant mold appears to be Bivalve Fragments and whole Bivalves.
5	60	X	FGSWP	Packstone	Red Algae Fragments ~5%, Peloids ~10%, Vermatid Fragments ~10%, Neomorphic Mud ~35%	Pebble 1cm to mud	moderate to well	abundant fracturing	none	Moldic ~40%	local laminations can be seen, typically alternating layers of Peloidal rich Packstone and mold rich

5	61	CGSPG	Packstone	Peloids ~50%? Skeletal fragments ~50% (consist of Vermatid tubes up to .4 cm, red algal fragments up to .3 cm and Bivalves, Gastropods, and unidentified fragments coarse to v. coarse)	lower coarse to v. coarse with rare larger clasts (v. coarse dominates)	moderate	abundant abrasion and rounding	none	intragranular ~20% possibly some minor intergranular as well ~<5%	
5	62	CGSPG	Packstone/Grainstone?	coral fragments up to 1.5 cm ~20%, gastropod, bivalve, rare Vermatid fragments up to .3 cm ~60%, peloids ~10% present locally, unidentifiable skeletal remains ~.1cm ~10%	upper coarse to Pebble	poor-moderate	abundant abrasion of smaller 'allochems	none	intragranular~15%, intragranular~5% moldic ~10%	nice coral pieces (at least I think its coral.)
5	63	CGSPG	Packstone	Peloids ~50%? Skeletal fragments ~50% (consist of Vermatid tubes up to .4 cm, red algal fragments up to .3 cm and Bivalves, Gastropods, and unidentified fragments coarse to v. coarse)	lower coarse to v. coarse with rare larger clasts (v. coarse dominates)	moderate to well	abundant abrasion and rounding	none	intragranular ~20% possibly some moldic	similar to sample 61
5	64	CGSPG	Packstone	Peloids ~50%? Skeletal fragments ~50% bivalve, gastro, Vermatids? Bryozoans and red algae (plus unknowns)	lower coarse to v. coarse	well	abundant abrasion and rounding	none	intragranular ~20% possibly some moldic	
5	65	CGSPG	Packstone	Peloids ~50%? Skeletal fragments ~50% bivalve, gastro, Vermatids? Bryozoans and red algae (plus unknowns)	lower coarse to v. coarse	well	abundant abrasion and rounding	none	intragranular~5%	tight, much better cementing than samples above, likely diagenetic
5	66	CGSPG	Packstone	Peloids ~50%? Skeletal fragments ~50% bivalve, gastro, Vermatids fragments up to .3 cm (rare that large) Bryozoans and red algae (red algae pretty common ~15% up to .2 cm (plus unknowns)	lower coarse to v. coarse	Moderate to well	abundant abrasion and rounding	none	Moldic ~ 5-10 %, some intergranular porosity in large Vermatid fragments. ~<5%	tight, much better cementing than samples above, likely diagenetic
5	67	CGSPG	Packstone	skeletal fragments 40% - similar content to 66, but lacking large Vermatid fragments. Largest fragments are red algal fragments up to .2 cm	coarse to very coarse	well	v. abundant	none	inter/intra particular ~25%,	porosity augmented by poorly preserved cement. (cement easily eroded.)
5	68	CGSPG	Packstone/Grainstone	skeletal fragments ~25-30%, bivalve fragments, bryozoan fragments, gastro and Vermatid fragments rare; peloids also very common	coarse to v. coarse	well	v. abundant	none	moldic, localized intraparticular, ~15%	well 'cemented' is all Packstone, but much better preserved than similar samples.
5	69	RAPG	Packstone	skeletal fragments ~40%. Dominated by red algal fragments (40-50% of skeletal components) up to .3 cm, also present are coral fragments~10%, bivalve fragments ~5%, Bryozoans ~15%, also some possible Vermatids(highly fragmented) and other unidentifiables, peloids are also abundant in the sample	coarse to very coarse	moderate to poor	very abundant	none	intraparticular, poor porosity.	relatively well preserved Micrite, though is still quite soft.
5	70	RAPG	Packstone (local pockets of Grainstone)	skeletal fragments and peloids dominate sample, largely unidentifiable due to recrystallization, but red algae appears to dominate with a wide variety of other skeletal components and possibly peloids as well	coarse to v/ coarse(Grains up to .5 cm possibly)	?	?- likely v. abundant	none	recrystallization appears to be calcitic, porosity highly occluded, some intragranular porosity remains.	appears similar to samples above, but with recrystallization of Grains, possibly modern diagenetic effect.
5	71	RAPG	Packstone	red algae fragments 25% up to .2 cm, peloids 15%, other skeletal components, largely unidentifiable 10%, rare coral fragments, bryozoans ~5%, rare gastropod and bivalve fragments	coarse to v. coarse	well	v. abundant	none	moldic (rare) intragranular 10% (occasionally augmented by poorly preserved Micrite	Micrite well preserved in majority of sample, possibly related to recrystallization as described in sample above.
5	72	RAPG	Packstone/Grainstone	similar to sample 71	v. coarse	v. well	v. abundant	none	interparticular - 30% where Grainstone, Packstone <10% interparticular, moldic throughout ~10%.	Well preserved red algae, good example of porosity variability between Packstone vs. Grainstone, however, the mud that is present could have been present throughout the sample prior to surface exposure.
5	74	CGSPG	Packstone	diverse fauna - equal content of most, generally slightly larger than v. coarse, rare grainstone clasts of 'sponge?' possibly Bryozoans/red algae or coral? Up to 1.2 cm (v. rare) (intraclast?)	rare medium to coarse to Pebble V. coarse and up dominates	moderate	abundant	none	inter and intraparticular, Micrite is locally poorly preserved, thus enhancing porosity.	
5	75	CGSPG	Packstone/Grainstone	bivalve fragments 10% up to .3 cm, red algae 15% up to .2 cm, Bryozoans fragments <10% up to .2 cm, coral fragments ~15% up to v. coarse sand, gastro? And other identifiables ~20%, peloids abundant	coarse to fine-Pebble, v. coarse dominates	well	abundant	none	intra and interparticular, intragranular dominates ~30%, possibly enhanced by surface weathering.	Sample may be miss-bagged, check against samples in the 40 range and for a sample 4B.
5	76	RAPG/ CGSPG	Packstone	similar to sample 71 in terms of biodiversity and content, though red algae are less abundant	coarse to v. coarse	v. well	v. abundant	none	inter and intra particular, ~10-15%.	fossil id's difficult, large amount of early stage micritization, possible burrowing? Micrite largely absent (might actually be a Grainstone)
5	77	RAPG	Packstone/Boundstone	encrusting red algae very common 40%, abundant 'sponge' (coral?) fragments up to 3 cm long and .5 cm thick or 2-3 cm rounded, locally pockets of diverse, highly abraded, coarse sand Packstone.	mud to Pebble	poor	locally abundant, locally low	none	inter and intraparticular, largely intraparticular in non-red algae dominated pockets.	some recrystallization, but largely appears to be unaltered.
5	78	CAG	Framestone/Rudstone	sample is dominated by Micrite, large coral clasts can be seen, greater than 4 cm in cross section, and possibly larger than hand sample in length. Rare encrusting red algae can be seen on coral molds.	mud to cobble?	poor	minor	none	moldic, coral fragments largely dissolved making specific identification difficult.	coral molds appear to be infilled with coral fragments and other v. coarse to small Pebble sized clasts largely dominated by coral and other skeletal fragments as well as intraclasts.

5	79	A(T?)BS	Wackestone/(Bounds tone?)/local Packstone	sample is dominated by Micrite, which may be thrombolitically bound? Clasts include large coral fragments, ~15% Up to 1.5 cm, bivalve shells are also present ~10% up to 1 cm, red algae and possibly some green algae<5% <.3 cm, other unidentifiable skeletal components likely, micritized grains common in Packstone pockets. possible rare bioturbations (borings)	mud to Pebble	poor	minor to abundant (Packstone pockets)	none	modalitic? Boring infill appears to have dissolved? And bivalves are dissolved <8-10%	Micrite appears mottled in texture, could possibly be algal bounded - thrombolitic?	
5	80	CGSPG	Packstone	skeletal fragments and peloids, skeletal fragments consist of red algal fragments up to .3cm ~15%, coral fragments up to .2 cm ~20%, bivalve and gastropods fragments to .3 cm ~10%, rare echinoderms spines up to .3 cm, also some Bryozoans fragments and Foraminifera can be seen	mud to fine Pebble (.8 cm - rare coral fragment)	moderate	abundant.	none	vuggy? Possibly centralized on a moldic initiator, but no clear mold could be identified ~30-40%	Swiss cheese rock.	
5	81	X	CGSPG	Packstone/fm(?)	Coral clast (Possibly in growth position, and Skeletal packstone similar to thin section 61	Pebble to mud	poor	moderate	none	Moldic, interparticular ~10%	Coral is more abraded than sample 61, otherwise very similar, Coral appears to have developed on Red Algae laminations
5	82	CGSPG	Wackestone/Packstone	skeletal fragments largely unidentifiable, so % occurrence ignored - echinoderm, gastro Bivalve, coral, Bryozoans, red algal, green algal? Foraminifera, peloids, chems make up ~30-50% of sample, rest is Micrite	mud to coarse sand	well	v. abundant	none	fractures only <5%	matrix is red. - possibly associated with subaerial exposure - age of exposure is debatable.	
5	83	CGSPG	Packstone/Wackestone	skeletal peloidal, skeletal fragments similar to those seen in sample 82,	mud to v. coarse sand	well	v. abundant	none	moldic ~10% (largely bivalves and coral fragments dissolved?)	matrix is white, locally molds outline original fossil very well, other places, molds enlarged to pseudo vugs.	
5	84	X	CGSPG/ RAPG	Grainstone	Red Algae Fragments ~20%, Foraminifera ~20%, Bryozoan Fragments (Moldic) ~20%, Sparry Calcite ~20%, Gastropods ~10%,	Pebble (to1.2 cm) to v. fine	moderate to well	moderate	none	Moldic ~30%	similar to TS 30, more common large bivalve valves (Moldic), more abundant abrasion
5	85	FPWP	Mudstone/Wackestone	Foraminifera ~ 5-10%, peloids ~5%, other skeletal grains ~10% and include red algal fragments <.2 cm, bivalve fragments and Ostracods <.2 cm, and some unidentifiables	mud to coarse sand	well	moderate	none	interparticular ~5% in Foraminifera, moldic <5% bivalve and other skeletal fragments	nice Foraminifera	
5	86	FPWP/ FGSWP	Mudstone/Wackestone/Rudstone	majority similar to sample 85, however large infilled molds and large partially dissolved coral fingers, up to 5 cm in cross section and possibly larger than 15 cm present. Molds infilled with material similar to sample 82	mud to cobble?	well?	minor to moderate	none	vuggy ~5%, along edges of sediment filled molds.	molds could be bioturbation, appear to be porites coral molds, but difficult to tell.	
5	87	FGSWP	Mudstone/Wackestone	similar to sample 85, Foraminifera less prevalent, surficial weathering effects including fracturing and diagenetic alteration visible, not clearly related to deposition. Could be related to exposure surface, or could be modern.	mud to coarse sand	well	minor to moderate	none	moldic coral fragments<5% and 0 connectivity	red dot diagenesis visible.	
5	88	X	CGSPG/ RAPG	Grainstone	Red Algae Fragments ~20%, Foraminifera ~20%, Bryozoan Fragments ~15%, Sparry Calcite ~20%, Gastropods ~10%,	v. coarse (rare) to v. fine	well	minor to moderate	none	minor Moldic, interparticular more common ~10%	nice preservation of Skeletal material - extremely tight sample
5	89	FGSWP	Packstone	peloidal and skeletal, skeletal components difficult to identify given their size, visible are coral, bivalve and Foraminifera	mud to medium sand, grainstone Grains rare	well	moderate? Well rounded	none	moldic ~possibly as high as 20%, small pores difficult to visually estimate.	looks like mudstone at first glance, but riddled with micro pores.	
5	90	A(T?)BS	Boundstone	algal material dominates, appears to be red algal, but difficult to tell specifically (this looks like a thrombolite) rare skeletal fragments, coral, bivalve, Foraminifera and other unidentifiables	mud and rare coarse sand	well	moderate	none	moldic? Where mud has been removed, algal binder? Remains and occludes porosity ~10% at most.	strange sample, looks to be a piece of thrombolite with algal laminations as described by CJ.	
5	92	FGSWP	Mudstone/Packstone	skeletal and peloidal abundance and type difficult to ID	mud to coarse sand	moderate	?	none	Fractures and moldic, actual % difficult to visually estimate	Highly weathered sample, appears similar to lithology described in sample 85, though more moldic and likely a higher concentration of slightly larger Grains.	
5	93	FPWP	Mudstone/Packstone	similar to sample 85, Foraminifera less visible but otherwise the same	mud to coarse sand	well	moderate	none	moldic, enhanced to pseudo - vuggy locally up to 20%	looks similar to sample above, with less weathering	
5	94	CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments	mud to coarse sand	well	abundant on larger fragments	none	moldic (bivalve and coral and likely others) <5%	red dot diagenesis visible.	
5	95	CGSPG	Packstone	likely similar to above, but almost all allochems have been dissolved, some large bivalves up to 1.1 cm, and possibly some 'Halemida' fragments, (actually a bivalve?)	mud to coarse sand (larger Grains present but rare)	well	abundant?	none	moldic ~25%		
5	96	CGSPG	Packstone	similar to sample 95, coral fragments? Present, enhancing porosity locally	mud to Pebble	moderate	abundant	none	moldic and vuggy ~30-35%	coral fragments and vugs all oriented horizontally	
5	97	CGSPG	Packstone	similar to sample 95, some bivalve fragments up to 1 cm, rare. Possibly burrowing	mud to coarse sand (larger Grains rare)	moderate	abundant	none	moldic ~15%	some red diagenesis around one pore, possibly a modern root intrusion?	
5	98	CGSPG	Packstone	similar to sample 95, coral fragments? Present, enhancing porosity locally, also some large gastro shells and Vermetid casts? (could be serpulid?) and phylloid algae?	mud to Pebble	moderate	abundant	none	moldic and vuggy ~30-40%	coral fragments and vugs all oriented horizontally, cross cut by burrowing which is filled with more resistant material, phylloid-esc algae resistant to weathering as well.	
5	99	CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments	mud to coarse sand	moderate	abundant	none	moldic ~20%	some molds connected into pseudo-vuggy porosity, but very rare, minor black dot diagenesis	
5	100	CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved	mud to coarse sand	moderate to well	moderate to ?	none	moldic ~20%	all allochems appear to have been dissolved	

5	101		CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>1cm) gastropod molds	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	moldic ~20%	all allochems appear to have been dissolved
5	102	X	CGSPG	Packstone	Peloids ~ 15%, Bivalve Fragments ~10%, Foraminifera ~5%, Volcanic clasts ~5%, Neomorphic Mud ~25%, Sparry Calcite 10 %	coarse to fine (and mud)	well	abundant on broken grains, minor on Foraminifera and similarly sized particles	none	Moldic ~ 30%	similar to other very Moldic samples, finer grained and with a higher concentration of Volcanic clasts
5	103		CGSPG	Packstone	appears similar to samples above (stratigraphically below) however contains fractures which are infilled with red matrix type material (similar to that described in sample 82) could be related to exposure						
5	104		CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments	mud to coarse sand	well	abundant on larger fragments	none	moldic (bivalve and coral and likely others) <5%	some moldic porosity can be seen concentrated on exposed side of sample
5	105		CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>1cm) gastropod molds	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	moldic ~20%	all allochems appear to have been dissolved
5	106		CGSPG/ FGSWP	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>1cm) gastropod molds	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	moldic ~20%	all allochems appear to have been dissolved
5	107		CGSPG/ FGSWP	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>1cm) gastropod molds	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	moldic ~10-15%	majority of allochems seen to have been dissolved, some horizontal concentrations of larger Grains (still coarse sand sized) show minor evidence of red alteration
5	110		FGSWP	Wackestone/Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>2m) gastropod molds with some preservation of recrystallized gastropod shell.	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	Moldic <5%	Sample is extremely altered, allochem identification based on mold shapes where present and expectations
5	111		FGSWP/ CGSPG	Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>1cm) gastropod molds	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	moldic <5%	sample features multiple generations of fracture fills, the earliest is filled with Micrite with medium and finer peloids present and a slight red coloration, later fracture fills are calcite? Cement which can also be seen lining some of the larger pores in non-fractured areas
5	112		RAPG	Rudstone/Packstone	skeletal and peloidal as above, with large (<3 cm in cross section, <5 cm in sample) algal intraclasts	mud to Pebble	poor	abundant	none	moldic? (bioturbated?) and interparticular ~10%	sample is very weathered, some indications of early auto BC formation of some of the intraclasts, clasts are fractured and infilled with red altered sediment that is dissimilar to the matrix the clasts are in.
5	113		FGSWP	Wackestone/Packstone	skeletal fragments largely unidentifiable, so % occurrence ignored - echinoderm, gastro Bivalve, coral, bryozoans, red algal, green algal? Foraminifera, peloids , chems make up ~30-50% of sample (possibly more), rest is Micrite	mud to coarse sand	well	v. abundant	none	moldic <5%	matrix is locally red, concentrated in interfingering horizontally oriented lenticular shapes that display bioturbation quite nicely, burrows are infilled with white sediment of a similar nature.
5	114		CGSPG	Packstone/Grainstone	skeletal and peloidal Packstone layer sandwiched by volcanoclastic Packstone, with the lowest layer wk/Packstone with occasional coated grains	mud to v. coarse (borderline Pebble) sand	well within each bed	v. abundant throughout	4 3-4 cm thick beds with irregular (dissolution?)contacts	moldic in skeletal/peloidal Packstone ~10%, otherwise pretty tight	nice alternation of lithologies, contact between lower volcanic rich and skeletal/peloidal Packstone is very sharp and displays some minor fissuring, may be SE surface.
5	108?		FGSWP	Wackestone/Packstone	skeletal and peloidal, large abundance of Foraminifera and Ostracods, also bivalve fragments, coral fragments, echinoderms, bryozoans and echinoderms fragments - all chems appear to be dissolved, rare large (>2m) gastropod molds with some preservation of recrystallized gastropod shell.	mud to coarse sand (large Grains rare)	moderate to well	moderate to ?	none	Moldic <5% Interparticular <5%	minor, small moldic pores, some v. large moldic pores (big gastropods) sample is highly altered, red and black diagenesis makes it difficult to ID grains, best guess listed for sample. Really nice void filling? Nice Recrystallized gastropods, likely highly bioturbated
5	109?		CGSPG	Packstone/Grainstone	skeletal components include gastropods up to .6 cm ~15%, algal fragments up to .4 cm ~10%, encrusting algae?(could be bryozoans, poorly preserved) ~10%, bivalve fragments up to .5 cm ~10% and unidentifiables.	Mud to Pebble, v. coarse dominates	poor	abundant	none	moldic ~ 15-20%	nice geopetals in gastro molds, support that there has been very little if any tilting, Vermatid? worms are visible at top of sample
5	11b		FGSWP	Packstone	mostly identifiable due to small size, some bivalve fragments and bryozoan fragments? Likely given shape of pore spaces	medium to upper fine	poor	v. abundant	none	moldic high	well cemented
5	73a		CGSPG	Packstone/Wackestone	red algae <10%, Bryozoans<10%, peloids very abundant ~30%, all skeletal components <.2 cm, bivalve fragments, Vermatid fragments, gastro? Fragments and rare unidentifiables present (Ostracods?)	medium to coarse	moderate to well	moderate	none	secondary moldic porosity	possible stylolite
5	73b		CGSPG	Packstone	similar to sample 73a, through concentration of grains is much higher	medium to coarse	moderate	moderate to abundant	none	intraparticular in local patches, intraparticular common, moldic less common <10%	no evidence for stylolitic dissolution, interesting relationship between moldic and recrystallized Micrite
5	86b		FGSWP	Mudstone/Wackestone	similar to sample 85, Foraminifera are less prevalent. And fragments of coral occur rarely up to 1.2 cm	mud to coarse sand	well	minor to moderate	none	moldic coral fragments<5% and 0 connectivity	red dot diagenesis visible.

6	1	BFR/ CGSPG	Packstone	skeletal fragments and peloids dominate, grain size limits ID possibilities, large bivalve casts visible on weathered surface	lower medium to coarse (4 cm bivalve casts)	well sorted	abundant abrasion and fracturing (bivalve casts well preserved)	none	moldic? V. low<5%		
6	2	CGSPG	Packstone	skeletal fragments and peloids dominate, grain size limits ID possibilities	lower medium to coarse	well sorted	abundant abrasion and fracturing	none	intraparticulate? V. low ~5%		
6	3	CGSPG	Packstone	skeletal fragments and peloids dominate, bivalve and bryozoans fragments? grain size limits ID possibilities	medium to v. coarse sand (some bivalve fragments up to .4 cm, rare)	moderate	abundant abrasion and fracturing	none	intraparticulate? V. low ~10%	reef flank type deposits? Pre reef reef flank?	
6	4	CGSPG	Packstone	skeletal fragments and peloids dominate, bivalve and bryozoans fragments? grain size limits ID possibilities	medium to v. coarse sand (some bivalve fragments up to .4 cm, rare)	moderate	abundant abrasion and fracturing	none	intraparticulate? V. low ~10%	similar to samples below	
6	5	CGSPG	Packstone	bivalve fragments common in sample, also present are bryozoans, rare gastropods, rare red algae, sponges?	medium sand to 1 cm long bivalve fragments	moderate to poor	abundant abrasion and fracturing	bivalve shells are roughly horizontal	intraparticulate? V. low ~10%	well preserved fossil content, Sample is very salty	
6	6	FPWP/ CGSPG	Contact Mudstone and Packstone	mudstone is largely barren, Packstone is peloidal and skeletal, with bivalve, bryozoans, red algal, gastro and unidentifiable fragments	Micrite to very coarse	moderate in Packstone	moderate rounding, moderate abrasion	none (vertical facies contact?)	moldic <10%	it looks like the mud is filling a fissure, or is the Packstone? I think the mud is, as there are lenticular 'pockets' of it visible in the weathered surface which look like fill bivalve molds.	
6	7	RAPG	Packstone	Vermatids, bivalves, gastropods, bryozoans all less than .3cm, large red algal fragments rare up to 43 cm(v. coarse sand sized present as well and very common)	coarse to v. coarse rare large Grains	moderate to well	highly abraded	evidence for burrowing burrows up to 1.5 cm across, 4 cm long of exposure	intraparticulate? Enhanced by matrix washout	altered matrix erodes easily, high concentration of red algae, appears to be encrusting some of the bivalve fragments	
6	8	X	RAPG	Grainstone	Red Algae ~15%, Peloids ~10%, Sparry Calcite ~20%, rare Foraminifera	v. v. coarse to medium sand, coarse dominant	moderate to well	abundant	none	Moldic, inter/intraparticulate ~55%	Highly Moldic, molds are subangular to sub rounded difficult to positively ID Skeletal assemblage but it would appear to be diverse, Gastropods, Bivalve, Echinoderm, Bryozoan, Possibly Coral.
6	9	RAPG	Packstone	Vermatids, bivalves, gastropods, bryozoans all less than .3cm, large red algal fragments rare up to 3 cm(sand sized ones present as well)	coarse to v. coarse rare large Grains	moderate to well	highly abraded	none	intraparticulate? Enhanced by matrix washout	altered matrix erodes easily	
6	10	CGSPG	Packstone	peloids 40%, skeletal fragments (un identified) 30%, bivalve molds 20%, gastropods 5%, red algal fragments 5% (some of these might actually be wacke/mud? Intraclasts)	gastro molds up to 1 cm, bivalve molds up to 2 cm (rare) average 1-1.5 all other Grains coarse to very coarse sand sized	poor	highly abraded	none	moldic 20% and some intragranular	some preserved bioturbation? Steinkern with borings?	
6	11	CGSPG	Packstone (diagenetic Grainstone?)	large mollusk? At least 1.25cm (1 in sample) other bivalves present up to 1 cm, Vermatid worms ~10% up to .3 cm, peloids abundant ~20%, other skeletal fragments ~20% (possibly some fenestral bryozoans? Could be just a section of bivalve.	medium to very coarse dominates larger clasts are uncommon	poor	abraded and rounded though Vermatids look to be in pretty good shape and the larger pieces seem to be well ornamented (Vermatids secondary?)	none	moldic ~ 20%	well cemented moldic large mollusk? Has very fine grained material preserved from steinkern(?) - and is highly altered	

6	12		CGSPG	Packstone	skeletal grains/fragments dominate (~60%), include gastro 15%, bivalve 10%, Foraminifera? ~5% also red algae, and possibly bryozoans and coral?	skeletal Grains up to .25 cm in general Grains coarse to lower very coarse	poor	highly abraded	none	inter and intragranular, moderate (~20?-25?%)	local cementation, more common around areas where red algal fragments more common, otherwise poorly 'cemented'.
6	13	X	CGSPG	Grainstone	Peloids ~15%, Vermatid Fragments ~10%, Red Algae Fragments ~10%, Foraminifera ~5%, Moldic Skeletal grains ~25%, Micrite/Neomorphic Mud ~5%, Sparry Calcite~15%	v.(v.)coarse to mud	moderate to well	abundant abrasion	none	Moldic, inter/intragranular ~40%	largest clasts are Red Algae and Vermatid Fragments, no Coral observed, otherwise similar to other high porosity samples with pseudo meniscus cement (no actual meniscus textures observed)
6	14		CGSPG	Packstone	red algal fragments ~5%, up to .8cm bivalve fragments and other skeletal fragments 50% Other un identifiable remains 45% (likely also skeletal grains, possibly some bryozoan, some sponge??	coarse to very coarse sand dominates, red algal fragments are exceptional and the possible sponge? Fragment.	poor	abraded, red algal fragments sub rounded	none	intragranular, possibly some inter, but very small scale - % difficult to estimate due to loss of matrix during cutting. Appears to be very porous	see note on porosity - matrix poorly preserved. Also occasional crystal faces can be seen flashing - no salt tasted, likely calc (or dolomite but less likely)
6	15		RAPG	Packstone	rare large red algal fragments up to 2 cm, rare volcanic fragments up to .1cm, the rest are peloids and skeletal fragments of a wide variety, and largely difficult to id. Similar to surrounding samples	lower coarse to v. coarse	moderate	abraded and rounded	none	intra particular locally, ~15% ranges up to 25% in small areas	poorly preserved matrix, though better than surrounding samples
6	16		CGSPG	Packstone	skeletal grains/fragments 70% up to .2 cm, largely unidentified, gastropods/fragments, <5% up to .1 cm, Foraminifera?	medium to coarse, but largely dominated by coarse sand size	poor	abundant abrasion	none	inter/intra particular moderate?	chems present by in large - Groundmass appears to have been dissolved? Poorly 'cemented'
6	17		CGSPG	Packstone???	skeletal fragments and peloids make up entire sample, some larger skeletal fragments occur - worm tubes and bivalve fragments, these 'chems are pretty rare though.	coarse to v. coarse	poor	highly abraded and moderately rounded	none	inter and intragranular	nice looking sand with muddy matrix, poorly preserved matrix, though not as bad as some
6	18	X	CGSPG	Packstone/Grainstone	Peloids ~15% (micritized Skeletal grains ~10%), Red Algae Fragments ~5%, rare Foraminifera, rare Bryozoans, rare Coral Fragments, rare Gastropods, Bivalve Fragments ~5%, Green Algae Fragments ~5%, Sparry Calcite ~15%, Neomorphic Mud ~15%	v. coarse to v. fine	well	abundant	none	Moldic, intragranular ~40%	Groundmass appears to be highly altered, porosity enhanced by weathering
6	19		CGSPG	Packstone	skeletal grains/fragments 70% up to .2 cm, largely unidentified, gastropods/fragments, <5% up to .1 cm, Foraminifera?	medium to coarse, but largely dominated by coarse sand size	poor	abundant abrasion	none	inter/intra particular moderate?	better cemented than many of similar facies
6	20		CGSPG	Packstone and Grainstone	peloids and skeletal grains - similar content in both however rare large intraclasts are present in the grainstone	coarse to 1.2 cm	poor	abundant abrasion	none	inter and intragranular intergranular dominates in both	minor black dot diagenesis contact between the lithologies marked by transition from well to poorly preserved Groundmass (which also results in higher apparent porosity)(diagenetic alteration?)
6	21		CGSPG	Packstone	red algal fragments, bivalve fragments, gastro fragments, Vermatids, and bivalve fragments	upper medium to v. coarse and coarser (up to 1.5 cm)	poor	abundant abrasion	none	intergranular, intragranular, rare moldic (largely bivalve molds)	minor black dot diagenesis and poorly preserved cement
6	22		CGSPG	Packstone	red algal fragments up to .3 cm are the largest fragments, skeletal fragments and peloids dominate the sample	lower medium to coarse	well	abundant abrasion	none	inter and intragranular	cement is moderately well preserved, possibly due to the finer Grain size
6	23		CGSPG	Packstone	peloids, skeletal fragments make up entire sample	upper medium to upper coarse	well? Uniform Grain size...	abundant abrasion	none	intragranular	
6	24		CGSPG	Packstone/Grainstone?	peloids and skeletal grains (largely unidentifiable) make up entire sample	coarse to very coarse sand	poor (in hand sample)	highly abraded, highly rounded	Burrows?	intragranular - 15?%	burrows appear to be filled and/or lined with finer grained material (upper fine to lower medium sand) and better cemented
6	25		CGSPG	Packstone	skeletal and rare volcanic fragments skeletal is at least 70% of sample volcanics less than 5%, range up to .2 cm skeletal fragments are coral, bivalve, gastro? (mold) and possibly some Foraminifera?	medium to v. coarse, some fragments up to .3 cm (skeletal(poor	highly abraded, abundant rounding	none	intragranular v. rare, moldic ~25-30%	
6	26		CGSPG	Packstone?	Vermatid worms 15-30% fragments up to 1.3 cm, bivalve (molds) ~10% up to 2.5 cm, internal sediment much finer grained (muddy) peloids and skeletal fragments make up the rest of the sample (peloids dominating)	cm scale to lower coarse sand, coarse sand to .5 cm dominates	poor	moderate abrasion, some fracturing of bivalve sediment fills	none	intergranular, some intragranular (secondary?) and moldic dominates ~25-30%?	

6	27	RAPG/ CGSPG	Packstone	red algal fragments up to .4 cm (large ones are rare)10%, skeletal fragments 50, peloids 40	coarse to v coarse dominates, larger clasts rare	moderate?	abundant abrasion	none	moldic and intragranular 25%	
6	28	X RAPG	Grainstone	Red Algae Fragments ~30-35%, Foraminifera 5%, rare Bivalve Fragments, rare Bryozoan Fragments, Sparry Calcite ~15%	Pebble (up to 2 cm) to v. fine	moderate to poor	moderate to abundant	none	Moldic and intracrystalline ~45%	Red Algae dominated sample, Sparry Calcite appears to have been eroded from original concentration resulting in a significant porosity enhancement.
6	29	RAPG/ CGSPG	Packstone	red algal fragments up to .4 cm (large ones are rare)10%, skeletal fragments 50, peloids 40	coarse to v coarse dominates, larger clasts rare	moderate?	abundant abrasion	none	intra and intergranular 25%	enhanced porosity due to poor preservation of matrix
6	30	CGSPG	Packstone	Vermatids ~10%, peloids ~30%, bivalve fragments ~20 % other skeletal fragments ~10% gastro ~5% and some red algae ~10%	fine to 8 cm(bivalve mold) coarse to very coarse dominates	poor	abundant abrasion of smaller 'allochems	none	moldic ~20% some intergranular ~5% mostly in the Vermatids	large bivalve molds - rock porosity likely higher than H.S. Porosity with more preserved large bivalves
6	31	FPWP/ RAPG	Wackestone/Packstone	peloids, rare volcanics, algal fragments up to medium sand about 10-15% clasts	mud to medium sand	well?	grains rounded	Fenestrae?	vuggy/fenestral?	Could be extremely altered, very friable, very soft
6	32	FGSWP	Wackestone/Packstone	peloids ~15%. Foraminifera (visible are rare, I imagine that there are more than I can easily see), bivalve fragments up to 1.35 cm, Phylloid? Red algae more likely, since it not dissolved Algae up to 4 cm long (.1 cm thick), ~5%, gastropods up to .4 cm <5%, Vermatids also present ~5-10%.	medium sand to 1.25 cm bivalve fragments (and the red algae? Flakes	poor to moderate	minor to moderate abrasion (red algae flakes are relatively unbroken.)	none	moldic	10-15%? Difficult to tell volume of minor pores, may actually be higher
6	33	X RAPG/ FGSWP	Packstone	Red Algae ~15%, Bivalve Fragments (Moldic) ~10%, rare Foraminifera, rare Coral Fragments(?) Neomorphic Mud ~ 45%	v. coarse Red Algae components to v. fine	moderate	moderate	none	moldic, 30%	appears similar to TS 17 without the Grainstone component, shows similar alteration and porosity enhancement, content is similar to TS 19
6	34	X CGSPG	Packstone/Grainstone	Volcanic Fragments ~5%, Red Algae Fragments ~10%, Bivalve Fragments ~10%, Intraclasts ~20%, many of which have a thin coating	v. coarse to mud	moderate	moderate	none	intragranular~25%	most of the Allochems are rounded Intraclasts of Packstone
6	35	CGSPG/ RAPG	Packstone	red algae up to .3 cm ~10-15%, the rest is peloids and skeletal fragments that are too abraded to ID	lower coarse to Pebble (v coarse dominates)	moderate	v. high abrasion	none visible	intergranular in red algae, rare intragranular	once again, matrix washed out during sawing - poorly preserved.
6	36	RAPG/ FGSWP	Wackestone/Packstone	red algae and rare skeletal fragments (bivalve, Vermatids, gastro) ~15% of sample and up to 1 cm	mud to Pebble	moderate	v. high abrasion on large grains	none visible	moldic	this sample could be float, and appears to be highly altered.
6	37	RAPG/ CGSPG	Packstone	red algal fragments up to .4 cm (large ones are rare)10%, skeletal fragments 50, peloids 40	coarse to v coarse dominates, larger clasts rare	moderate?	abundant abrasion	none	moldic and intragranular 25%	some minor 'black dot diagenesis'
6	38	CGSPG	Packstone	skeletal grains, 40% and up to .4 cm bivalves, gastropods(rare) red algae, Vermatids? And unknowns (possibly some coral...)	coarse to .4 cm	moderate	well abraded	none visible	moldic and intraparticle ~20%	moldic Is dubious, could be alteration of matrix...
6	39	FGSWP/ CGSPG	Contact Wackestone/Packstone and bioturbated Packstone (lower)	peloids and skeletal fragments are common in both, lower seems to have a higher concentration of coral fragments, upper facies has rare bivalves up to 2 cm	upper medium to very coarse in both	moderate to well in both	high abrasion in both	highly bioturbated lower portion (abundant burrows)	moldic in both, some intraparticle in lower 25-30% in both	lower portion is dark gray and appears to have been more highly altered than upper portion. Contact is sharp and irregular
6	40	CGSPG	Packstone	skeletal fragments, bivalve, gastro, Vermatids, bryozoans? Coral? Maybe some echinoderms	upper coarse to very coarse	poor	very highly abraded	none	intragranular, rare moldic (possibly modern diagenetic - only visible on edge of sample)	very well lithofied ('cemented') some possible geopetals, minor black dot diagenesis
6	41	RAPG/ CGSPG	Grainstone (diagenetic?)	peloids and skeletal fragments, largely unidentifiable, rare large clasts of red algae, bivalve fragments., also some Foraminifera	medium to coarse, Pebble sized fragments rare~5%	poor	highly abraded	none	partially filled, some moldic. <5%	
6	42	RAPG/ CGSPG	Grainstone	peloids 20%, Skeletal fragments 40%, Vermatid fragments, bivalve fragments, red algal and bryozoans fragments and other unidentifiable, no clear dominating 'Allochem, rare Vermatid colonies up to 2.3 cm	coarse to Pebble (v coarse dominates)	v. poor	highly fractured, angular but abraded	some inverse grading, but subtle	intergranular in Vermatid and rare vugs	

6	43	RAPG/ CGSPG	Grainstone/Packstone	skeletal fragments dominate ~60%, red algae ~15-20% up to .2 cm other components not readily identifiable in hand sample, peloids?	medium to very coarse sand	poor	highly abraded and rounded	none visible	moldic. Minor, rare intergranular	well cemented (cement or mud???) I think it is a Grainstone, could be a Packstone that is well 'cemented'
6	44	RAPG	Grainstone	red algal fragments, some bivalve molds (rare) other unidentifiable skeletal grains, rare peloids and rare Vermatid fragments	medium/coarse to Pebble	v. poor	highly variable abrasion, from v. abraded to preserved ornamentation of some bivalve fragments	none visible	moldic, large Grains (possibly coral? But no preserved polyps	highly recrystallized looks like reef core - large molds could be coral fragments, though little else is dissolved.
6	45	CGSPG	Grainstone	peloids 20%, Skeletal fragments 40%, bivalve fragments, coral fragments, Ostracods?, Foraminifera?, red algal and bryozoans, no clear dominating 'Allochem, rare intraclasts up to 1 cm	medium to Pebble	poor	variable, generally abraded	none	moldic near exposed side of sample, otherwise very tight, some intergranular ~5-10%	
6	46	CGSPG	Grainstone	skeletal fragments, peloids, due to alteration difficult to distinguish, but bivalves, Vermatids, bryozoans? And algal(red?) fragments noted	coarse to very coarse	well	highly abraded	none	Moldic and intragranular ~40%	Very weathered
6	47	CGSPG	Grainstone	skeletal fragments, peloids, due to alteration difficult to distinguish, but bivalves, Vermatids, bryozoans? And algal(red?) fragments noted	coarse to very coarse	well	highly abraded	none	some molds, but only ~5-10%	very dense, visible crystal faces on weathered surface 'diagenetic Grainstone' ? I can't tell if it was originally a Grainstone or a Packstone.
6	48	X RAPG/ FGSWP	Grainstone	Neomorphic Mud ~15%, Red Algae Fragments ~5%, Vermatid Fragments <5%, Bivalve Fragments ~5%, Sparry Calcite 65%	v. coarse to v. fine	well	abundant abrasion	none	Moldic ~10%	very little preservation of Skeletal material, most are interpreted based on the presence of Micrite halo's Vermatids and Red Algae are unaltered
6	49	FPWP	Mudstone	rare skeletal grains, rare red algal grains	coarse to very coarse	well	highly abraded	none	moldic? <5%	recrystallized mudstone?
6	50	CGSPG	Grainstone?	skeletal fragments, peloids, due to alteration difficult to distinguish, but bivalves, Vermatids, bryozoans? And algal(red?) fragments noted	coarse to very coarse	well	highly abraded	none	some molds, but only ~5-10%	dense, tight and minor alteration?
6	51	CGSPG	Grainstone	skeletal fragments, peloids, due to alteration difficult to distinguish, but bivalves, Vermatids, bryozoans? And algal(red?) fragments noted	coarse to very coarse	well	highly abraded	none	some molds, but only ~5-10%	very dense, visible crystal faces on weathered surface 'diagenetic Grainstone' ? I can't tell if it was originally a Grainstone or a Packstone.
6	52	CGSPG	Packstone	peloids and skeletal components which are largely altered and difficult to ID	medium to upper coarse	moderate to well	highly abraded	none	intra particular - moderate ~20%	looks similar to 'reef flank' deposits, skeletal components surprisingly difficult to id - early stages of micritization?
6	53	FGSWP/ CGSPG/ FPWP	Mudstone/Wackestone (local Packstone?)	peloids and unidentifiable skeletal fragments (probably algal and bivalve) rare bryozoan fragments up to .4 cm	recrystallized Micrite? and coarse sand with rare larger clasts	moderate to well	highly abraded grains	none	tight. Possibly some intergranular porosity	dense - highly recrystallized? Don't know how much of the 'blankness' is diagenetic
6	54	FGSWP/ FPWP	Wackestone/Packstone	peloids and unidentifiable skeletal fragments (probably algal and bivalve) rare bryozoan fragments up to .5 cm	recrystallized Micrite and coarse sand with rare large Grains	Moderate	highly abraded	infilled vertical fissure (cross cuts grains)	moldic - low ~10%	vertical fissure infilled with highly altered carbonate mud, evidence for S.E.?
6	55	CGSPG	Packstone/Grainstone	peloids and skeletal fragments, largely unidentifiable, peloids dominate significantly (probably was a Packstone)	upper medium sand to very coarse (course dominates)	well	highly abraded? Well rounded, but no evidence for abrasion	none	intra particular - high ~30% locally, tight in other areas	variable cementation, variable preservation of recrystallized matrix?
6	56	CGSPG	Grainstone	skeletal - largely un identifiable though	medium to lower coarse	well	abundant?	none	moldic and intragranular?	sample highly altered, original textures difficult to observe, weathered surface looks similar to composition of 6-45 but better sorting and smaller grains
6	57	A(T?)BS	Boundstone?	algal material dominates sample, some rare skeletal fragments	Micrite? To coarse	well	minor	none	moldic? (bioturbated associated?) <5%	appears to be a piece of thrombolite (structured?)
6	5b	CGSPG	Packstone	bivalve fragments dominate sample, also present are bryozoans, rare gastropods, rare red algae, sponges?	medium sand to 3 cm long bivalve fragments	poor	bivalve fragments fractured, but well ornamented	bivalve shells are roughly horizontal	intraparticular? V. low ~10%	well preserved fossil content, though groundmass appears to be altered somehow. Sample is very salty
7	1	FGSWP/ CGSPG	Packstone	skeletal and peloidal, rare volcanic clasts up to 1.5 cm, other large fragments include bivalve and gastropod shell fragments up to .3 cm, otherwise too small to identify or peloid	mud to Pebble, medium sand dominates	well	abundant on larger grains	none	moldic ~10% (enhanced by weathering) and some interparticular. ~5%	sample is weathered, but Micrite is largely intact, black dot diagenesis is prevalent, sample is salty.
7	2	RAPG	Packstone/Rudstone	large clasts of branching and encrusting red algae present (up to 3.2 cm), otherwise content similar to similar facies. Lg. bivalve shells and fragments visible as well	mud to Pebble	well	some abrasion, large shells generally intact, large algal pieces are broken, but not fractured	none	moldic ~30%	rock is weathered, Micrite seems to be more preserved in no clear pattern, bioturbation possible (likely)
7	3	X RAPG	Packstone	Red Algae Fragments ~5%, Peloids 15%, Micrite (Neomorphic Mud) ~30%	coarse to mud	well	moderate	none visible	Moldic ~50%	Skeletal Fragments difficult to ID due to abrasion

7	4	X	CGSPG	Grainstone	Coral Fragments ~ 15%, Red Algae ~15%, Bivalve Fragments ~5%, Intraclasts 5%, Peloids ~5%, Micrite 5%, Sparry Calcite 15%	Pebble 1.4cm to mud	poor to moderate	abundant	none	Moldic, inter/intraparticulate ~40%	strange alteration of Red Algae clasts, appear green and visible development of the "black dot diagenesis"
7	5	X	CGSPG	Grainstone	Coral Fragments 5-10%, Intraclasts ~10%, Bivalve Fragments ~5-10%, Red Algae ~10% Gastropods and Foraminifera ~5% Sparry Calcite ~15%	Pebble ~1cm to medium sand, v. coarse dominant	moderate	v. abundant rounding	none	Moldic, intracrystalline, intercrystalline ~ 40-50%	
7	6		CGSPG	Grainstone	skeletal components dominate sample and appear to be mostly bivalve fragments and bivalves up to 1.3 cm, (possibly gastro) other fauna include red algae ~5% up to .3 cm, Foraminifera fragments? Many are unidentifiable in hand sample,	mud to v. coarse sand (rare larger Grains)	well	fracturing, minor to moderate abrasion	none	interparticulate ~<5%, moldic ~10%	very nice fossil assemblage, nature of crystal growth would be interesting to see
7	7		CGSPG	Packstone	skeletal - bivalves dominate, ~20% up to .5 cm, Foraminifera plentiful as well, ~5-10% of cross section, also present are echinoderms Vermatids? Bryozoans and red algae, possibly some green algae as well, but difficult to determine.	mud to v. coarse sand, lower coarse sand dominates	well	abundant	none	moldic ~15%	
7	8		BFR/ CGSPG	Rudstone/Packstone	bivalve ~40-50% of skeletal components up to 4 cm, also some gastropods and some rare red algae, echinoderms and Vermatids also present in small amounts, peloids <5%.v. rare horn coral?? Bioturbation abundant as well as boring of bivalve shells	mud to Pebble	poor	minor on larger grains, moderate on small grains	none	moldic ~20-30%	possibly also some small volcanic fragments
7	9		CGSPG	Grainstone	skeletal components dominate sample and are very diverse , bivalves seem to form majority and there is a preferential orientation along the long axis horizontally, fragments up to 1 cm rare, average large size .s .3 cm, some large (~.6 cm) Vermatid clasts are visible as well, otherwise grain size limits hand sample identification, with moderate confidence it is possible to identify red algal, echinoderm, serpulid?, bryozoans and some large Foraminifera.	mud to v. coarse sand (rare larger Grains)	well	fracturing, minor to moderate abrasion	none	interparticulate ~5%, moldic ~20%	very nice fossil assemblage
7	10		RAPG	Packstone	red algal clasts up to 1.2 cm, ~5-10%, others difficult to ID due to high abrasion and small grain size	mud to Pebble	well	v. abundant on small grains, moderate on larger grains	none	moldic and interparticulate ~10-20%	red algae shows both encrusting, and branching forms.
7	11		CGSPG	Grainstone	skeletal components dominate sample and are very diverse , bivalves seem to form majority, fragments up to 1 cm rare, average large size .s .3 cm, some large ~.5 cm red algal are visible as well, otherwise grain size limits hand sample identification, with moderate confidence it is possible to identify red algal, echinoderm, serpulid?, bryozoans and some large Foraminifera.	mud to Pebble	well	fracturing, minor to moderate abrasion	none	interparticulate ~5%, moldic ~20%	
7	12		CGSPG	Packstone/Grainstone	appears similar to sample above in terms of content, though it lacks the lag clasts of red algae, weathered surface shows presence of large >5cm coral (stick porites) fragment and large bivalve as well as abundant Vermatid fragments	mud to Pebble (large Pebble?)	poor	smaller grains abundant abrasion, larger grains moderate to minor	none	moldic and intergranular ~15%	no evidence for larger clasts on cut surface, weathered surface shows abundant large clasts, weathering of sample may make the cut surface more difficult to see - too soft to polish.
7	13		FGSWP	Packstone	as above, but softer, and lacking large clasts	mud to v. coarse	moderate	abundant	none	moldic and intragranular? Highly augmented by softness of sample and weathering	v. soft, v. fragile sample.
7	14		CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .7 cm in coarse to v. coarse sand)	mud to v. coarse	moderate	v. abundant	none	moldic and intragranular? Likely augmented by weathering	very similar to samples below stratigraphically
7	15		CGSPG	Packstone/Grainstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .4 cm in coarse to v. coarse sand)	mud to v. coarse	moderate	v. abundant	none	moldic and intragranular? Likely augmented by weathering	
7	16		CGSPG	Packstone/Grainstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .5 cm in coarse to v. coarse sand)	mud to v. coarse	moderate	v. abundant	none	moldic and intragranular? Likely augmented by weathering	shows signs of minor to moderate bioturbation, specifically the presence of vertical and horizontal burrows filled with Micrite and fine to medium sand sized clasts
7	17	X	RAPG	Grainstone	Red Algae Fragments 15%, Bivalve Fragments ~5%, Echinoderm Fragments ~5%, Peloids ~10%, Bryozoan Fragments ~15%, rare Volcanic Fragments, Foraminifera 5% Micrite 20%	coarse to mud	well	moderate to abundant	none	Moldic ~25%, rare fracture	diversity in sample is well preserved, good longitudinal cross section of an Echinoderm spine
7	18	X	CGSPG	Grainstone	Coral Fragments ~20%, mottled mud ~20%, Bivalve Fragments ~5%, Peloids ~15%, Red Algae ~10%, Sparry Calcite 10%, Micrite 10%	Pebble (2.2cm) to mud	poor	fracturing abundant	geopetals abundant and similar to expected vertical	Moldic, intracrystalline ~ 20%	mottled thrombolite texture, good preservation of Coral (sidastraea?), good preservation of geopetal fabric
7	19		FGSWP	Mudstone/Wackestone	bioturbated mudstone, gastropod and peloids present as well as Foraminifera, and rare algal fragments (red) bioturbation possible , but orientations and presence of encrusting algae and bryozoans on surface of sample, as well as angularity and sharpness of contact noted in the field indicate this is likely a large intraclast	mud to v. coarse sand	well/poor (in large burrow)	minor/abundant	none	moldic <5%	likely a large intraclast
7	20	X	CGSPG	Packstone	Peloids ~20%, Bivalve Fragments ~5%, Red Algae Fragments ~15%, Bryozoan Fragments ~10%, algal laminations ~10%, Micrite/Neomorphic Mud ~25%	medium sand to fine	well	abundant	none	Moldic, vuggy ~15%	large Bivalve Fragments (Oyster), also contains rare Volcanic Fragments

7	21	CGSPG	Packstone/Grainstone	skeletal and peloidal as above. concentrations of coarse grains occur in conjunction with calcite cement	mud to v. coarse	moderate/well	moderate/abundant	1.5-2cm gradationally bound beds	modalic 10% highly concentrated in gradation between Grainstone and Packstone beds	faunal assemblage looks the same in both lithologies.	
7	22	FGSWP/ FPWP	Mudstone/Wackestone	Vermatid / serpulid worm tubes visible as well but not very common	mud to 1.2 cm (mold of a bivalve?)	well	moderate/minor	none	modalic ~5% enhanced by modern root dissolution?	highly recrystallized	
7	23	CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .3 cm in coarse to v. coarse sand), also contains rare, small (medium to coarse sand) well rounded volcanic grains	mud to c. coarse	well	v. abundant	none	modalic and intragranular? Likely augmented by weathering	slightly salty taste	
7	24	CGSPG	Packstone	skeletal and peloidal, faunal assemblage similar to samples below stratigraphically	mud to v. coarse	moderate to well	abundant	none	modalic ~15-20% high concentration of small pores	sorting slightly poorer in this sample, lower Grain concentration than previously described similar samples	
7	25	CGSPG	Packstone	similar to sample above, but weathering makes it difficult to positively id many of the allochems	mud to Pebble (up to 1.2 cm) v.v. coarse dominates	poor	moderate/ ?	none	Modalic ~45% highly enhanced due to weathering	porosity greatly enhanced by weathering of Micrite (or dissolution of a secondary calcite cement??)	
7	26	CGSPG	Packstone	as above, but softer, and lacking large clasts	mud to v. coarse, coarse to v. coarse dominates (I think)	moderate to poor	moderate?	none	modalic ~25% enhanced	porosity enhancement as above	
7	27	FGSWP/ CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .3 cm in coarse to v. coarse sand), also contains rare, small (medium to coarse sand) well rounded volcanic grains	mud to v. coarse, coarse dominates	well	v. abundant	none	modalic and intragranular? ~ 15%	looks similar to samples above, generally showing a large scale fining upwards trend and an increase in quality of preservation	
7	28	X	CGSPG	Packstone/rd/(Frame stone?)	Vermatid Fragments ~15%, Bivalve Fragments ~15%, Coral Fragments ~5%, Red Algae Fragments ~5%, Foraminifera and Ostracods <5%, Neomorphic Mud ~30%	Pebble (2 cm max) to v. fine	moderate to poor	abundant fracturing of large Vermatid and Bivalve Fragments	none	modalic and interparticular ~ 25%	preservation of both Vermatid burrows and the Vermatids themselves? I need to do a little research on what exactly the Vermatid Gastropods/worm is.
7	29	CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .4 cm in coarse to v. coarse sand), also contains large bivalve and possibly green algal fragments up to .4 cm	mud to v. coarse, coarse dominates	moderate	abundant	none	modalic and intragranular? ~ 15 - 20%	fragile sample	
7	30	X	CGSPG	Grainstone	Vermatid Fragments ~20%, Red Algae ~15%, Green Algae ~5%, Sparry Calcite ~15% rare Foraminifera, Ostracods, Peloids ~5%	v. coarse to fine	well	abundant abrasion and fracturing	none	Modalic ~ 40%	abundant Vermatid and Red Algae Fragments which lack abrasion, most Modalic grains appear to have been rounded, might be a result of porosity enhancement though
7	31	CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate high concentration of serpulid and Vermatid worm tube fragments and insitu, also small % (~2-3) of volcanic clasts medium to coarse sand, well rounded	mud to v. coarse, coarse dominates	moderate	abundant	none	modalic and intragranular? ~20%	nice Vermatids, good evidence for bioturbation. Molds of larger bivalves (up to 3 cm) can be seen on weathered surface showing significant borings.	
7	32	CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate	mud to v. coarse, coarse dominates	well	abundant	none	modalic ~ 15%, and minor interparticular (<5%)	very well sorted.	
7	33	X	RAPG	Packstone	Red Algae (Fragments and encrusting) ~35%, Bivalve Fragments ~10%, Peloids ~10%, rare Foraminifera, rare Gastropods, Neomorphic Mud ~25%	Pebble (2.5 cm) to v. fine	moderate to poor	abundant	none	Modalic, intragranular ~20%	preservation of a rhodolith which traps and binds mud. Some rare Green Algae Fragments Possibly
7	34	RAPG/ CGSPG	Packstone/Rudstone?	diverse faunal assemblage, skeletal components dominate higher concentration of coral fragments than has been seen in similar samples	mud to Pebble, coarse to v. coarse dominates	poor	moderate to abundant	none	modalic 15-20% enhanced by weathering	coral has dissolved and weathering has enlarged pore space, nice Vermatids and encrusting red algae despite poor preservation	
7	35	CGSPG	Packstone	skeletal and peloidal, bivalve molds are the largest allochems, up to 3 cm on the weathered surface, other grains difficult to ID (all modalic) but likely similar to samples described above	mud to 3 cm, coarse to v. coarse sand dominated	poor	abundant (larger grains moderate)	none	modalic ~15%	presence of geopetals supporting minor if any tilting	
7	36	CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features red algal fragments which are significantly larger than surrounding clasts (up to .4 cm in coarse to v. coarse sand)	mud to v. coarse, coarse dominates	moderate	moderate to abundant	none	modalic and intragranular? ~ 15 - 20% enhanced by weathering of Micrite	similar to previous samples	
7	37	CGSPG	Packstone	similar to samples above, diverse faunal assemblage	mud to v. coarse, coarse dominates	moderate	moderate to abundant	none	modalic and intragranular? ~ 10%	sample features auto-Breccia crack/ bioturbation? That is infilled with Micrite and red algal/volcanic sub rounded coarse sand. (could be associated with modern rootlet	

7	38	X	RAPG/ CGSPG	Packstone/conglomerate?	Red Algae ~10-15%, Coral Fragments ~15%, intraclasts~10%, Vermatid Fragments ~10%, Bivalve Fragments~10%, Micrite (Neomorphic Mud)~15%	Pebble ~1cm to mud	poor	abundant rounding	none	moldic,intragranular~25%	intraclasts are of a Skeletal packstone, grain size medium to coarse sand, similar assemblage to rest of sample, but more mud, no to low porosity and higher abrasion
7	39		CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features bivalve fragments which are significantly larger than surrounding clasts (up to .4 cm in coarse to v. coarse sand)	mud to v. coarse, coarse dominates	poor to moderate	minor to moderate	none	moldic and intragranular? ~15%	very good preservation, good detail on some of the larger molds
7	40		CGSPG	Wackestone/Packstone	similar to sample 39, some very nicely preserved gastropods are largest clasts up to 1 cm , but very rare, weathered surface shows grain support fabric and higher abrasion	mud to v. coarse, coarse dominates	poor to moderate	minor to abundant	none	moldic ~10-15%	clasts are randomly oriented
7	41	X	RAPG	Packstone	Red Algae Fragments ~20%, Neomorphic Mud 20%, Vermatid Fragments ~10%, Bivalve Fragments (Moldic)~10%, Bryozoan Fragments~5%, Oyster Fragments (non-Moldic)~5%, rare Foraminifera, Ostracods, Gastropods<5%	fine to v. coarse sand	well	abundant on all grains	none	Moldic, intraparticulate ~30%	interesting cement growth pattern still visible, oriented ~5d off of vertical
7	42		CGSPG	Packstone	diverse faunal assemblage, skeletal components dominate appear similar to other reef flank type deposits and features rare bivalve fragments which are significantly larger than surrounding clasts (up to .5 cm in coarse to v. coarse sand)	mud to v. coarse	moderate	moderate to abundant	rough coarsening upward pattern	moldic ~10%	sample coarsens up and to the right of cut surface
7	43		CGSPG	Wackestone/Packstone	peloidal, skeletal, visible skeletal material includes Foraminifera, bivalve fragments, small gastropods and small coral fragments	mud to v. coarse, coarse dominates	moderate to well	moderate to abundant	none	moldic ~<10%	randomly oriented allochems, small fracture with concentrations of molds runs through cut section\
7	44		CGSPG	Framestone/Packstone	composed of two lithologies, both Packstone, one with gray groundmass similar to sample 43, one with higher grain concentration, reddish matrix and higher skeletal content	mud to v. coarse/mud to coarse	moderate/moderate	abundant/moderate to abundant	none... see note	moldic ~10%/moldic ~15%	reddish material appears to be filling molds left by dissolved coral fragments on right side of sample on left coral groundmass is intraclastic. Possibly the edge of a coral Growth?
7	45		CGSPG/ FGSWP	Wackestone/Packstone	abundant algae and small bivalve fragments, red algal fragments, encrusting coral? Prevalent on the weathered surface and appears to have some small branching corals associated with it. Other faunal assemblage as expected	mud to 8 cm coral	poor	minor to abundant	none	moldic and intergranular ~20%	I wonder what the coral was encrusting if it is an encruster.
7	46		CGSPG	Packstone/Breccia	sample is highly altered, identifiable grains appear to be similar to previously described	mud to v. coarse sand, possible intraclasts to 5 cm	poor	sub rounding, moderate abrasion	none	moldic and interparticulate <5%	sample is highly altered, ghost intraclasts may be due to diagenesis
7	47		CGSPG	Breccia	composed of two lithologies similar to that seen in sample 44	mud to v. coarse/mud to coarse	moderate/moderate	abundant/moderate to abundant	none... see note	moldic ~10%/moldic ~15%	sample displays auto-brecciation - Gray material is fractured with red material filling fractures
7	48		A(T?)BS/ FPWP	Wackestone/Packstone	skeletal components are diverse, but uncommon, peloids moderate common, matrix forms ~60% of sample	mud to v. coarse	poor/moderate	abundant	randomly oriented Allochems	moldic 10%	possibly algal bound - thromb?
7	49	X	CGSPG	Grainstone	Coral Fragments ~15%, Red Algae ~10%, Intraclasts ~10%, Foraminifera ~5%, Peloids ~15%, coated grains ~10%, Sparry Calcite ~20%	Pebble (1.6 cm) to mud	moderate	abundant	none	Moldic, interparticulate ~15%	Micrite is only present within larger grains
7	50		FPWP	Mudstone/Wackestone	rare Ostracods, Foraminifera, bivalves, <15% of sample is skeletal/peloidal allochems	mud to coarse (v. coarse rare)	moderate to well	minor	none	moldic <5%	intraclast ghosts likely diagenetic, not present away from weathered edge of sample
7	51		PF	Framestone	Micrite and large (greater than 5 cm) coral fragments, other skeletal components are present but rare	mud and Pebble	poor	none	none	interparticulate and rare vuggy ~15%	nice coral, appears to be porites
7	52		CGSPG	Packstone	skeletal peloidal, nice faunal assemblage, a little of everything, except worm tubes. And volcanic clasts	mud to very coarse	very poor.	moderate to abundant	none	moldic and interparticulate ~15-20%?	preservation OK, sometimes difficult to ID allochems due to weathering
7	53	X	PF/ CGSPG	Rudstone/Packstone	sample has 2 main constituents, Coral framework and Skeletal packstone. Coral is about 45% of thin section, encrusting Red Algae is 5%, and 40% Skeletal Peloidal pk. The Skeletal Peloidal pack contains Peloids, Red Algae Fragments, Bryozoan Fragments and assorted Skeletal Fragments	Coral Fragments up to 5 cm to mud	poor	minor to none	none	vuggy, some Moldic ~5% in Packstone, ~20 in Coral	Coral is well preserved, massive growth form. Packstone (might actually be Grainstone, Sparry Calcite is likely secondary)
7	54		CGSPG	Packstone	similar to sample above, but with volcanic clasts (medium sand well rounded)	mud to very coarse	very poor.	moderate to abundant	none	moldic and interparticulate ~15-20%?	preservation worse than sample above, slightly salty, some red dot diagenesis, sample is soft and fragile
7	55		CGSPG	Grainstone	peloids make up majority of sample, includes several intraclasts of peloidal grainstone that are 3-4 cm in length and 1-2 in height	medium to Pebble	poor	moderate?	none	intraparticulate (between intraclasts)	interesting sample, intraclasts appear to be less well cemented than the Groundmass
7	56		FPWP	Mudstone/Wackestone	likely some skeletal components which are the focus of the observed molds	mud	well	none	none	moldic ~5% enhanced by weathering	porosity enhancement makes it very difficult to identify what skeletal components were present originally
7	57		CGSPG	Breccia	contents appear similar to those seen in sample 47, Gray is now light red and red is now dark red	mud to Pebble	well	fracturing and infill	none	rare moldic	nice calcite crystal Growth in larger pores, smaller pores occluded by cement Growth

7	58		A(T?)BS	Grainstone	majority of non cement material appears to be algal, some small bivalves, gastropods, and Foraminifera are also observed	mud to 3 cm bivalve (all other skeletal components, including all other bivalves in sample are max .3 cm)	moderate	minor to moderate	none	rare interparticular	some small pockets of Micrite can be seen this sample would make an interesting thin section
7	59		FGSWP	Packstone	skeletal peloidal as previously described, though grain ID is hard given small size and moldic nature	mud to medium sand, coarser Grains rare	moderate/well	minor to moderate	none	moldic ~10% or higher	cross cut by fracture filled with similar material, just finer grained
7	60		CGSPG	Grainstone/Packstone	skeletal fragments very diverse, and are also almost all moldic making identification difficult	mud? To 1.2 cm	moderate	moderate	none	interparticular and moldic ~20%	likely was originally a packstone. large Grains appear to be floating. A thin section would be very helpful for this sample
7	61		A(T?)BS/ FPWP	Mudstone/Wackestone	skeletal components appear to have been mostly Ostracods and Foraminifera based on the size or resulting pores	mud to .2 cm	moderate	none	none	moldic ~5-10%	sample is Very salty, features fractures which are infilled with red, crystalline/muddy material (caliche cement?)
7	62		A(T?)BS	Mudstone	minor skeletal content - Foraminifera and v. rare bivalves possible algal lamination (thromb?)	mud to coarse (rare)	well	none	none	moldic <5%	sample is mottled in appearance and displays some black dot diagenesis
7	1b	X	RAPG	Packstone/Grainstone	Red Algae Fragments ~25%, Coral Fragments ~5%, Sparry Calcite ~ 20% Micrite ~15%	v. coarse to mud	poor	fracturing abundant, abrasion less so	none	Moldic, vuggy (enhanced Moldic) ~40%	packstone concentrated locally, little to no Coral clasts associated with packstone, contacts are sharp, no evidence for Intraclasts or erosion, Possibly sharply gradational
7	6b	X	CGSPG	Packstone	Mollusk Fragments ~15%, Vermatid Fragments ~10%, Peloids ~10%, Foraminifera ~5%, Gastropods ~5%, Bryozoan Fragments ~5%, Neomorphic Mud/Micrite ~35%	v. coarse to fine	moderate to well	abundant	some geopetals showing vertical orientation	moldic, intergranular ~15%	many smaller fossils are fractured but not rounded, larger grains show rounding and early stages of micritization?
?	?1	X	CGSPG	Packstone/Grainstone	Volcanic Fragments ~10%, Bivalve Fragments ~5%, Ostracods <5%, Foraminifera<5%, Coral Fragments ~10%, Neomorphic Mud ~60%, Peloids? (probably abraded Skeletal material) ~5%	medium to fine	well	v. abundant	thin laminations (mm scale)	Moldic and vuggy, ~25-25%	thin wavy laminations reflect bedding trends observed in the field. Sample is muddier than I expected it to be.
?	?2		FGSWP	Wackestone	highly altered Packstone, showing dissolution cementation, and infill of void space by later sediment, could be evidence for S.E. depending on the nature of the infilling cement/dissolution style, or the presence of rhyzoliths.						
?	?2		FGSWP	Packstone/Wackestone	contact between skeletal peloidal Packstone below, lower coarse grains abundantly abraded and peloidal/skeletal wk above with coarse grains with moderate to minor rounding, porosity is moldic and better in the Packstone.						
?	AS1-B		A(S?/ T?)BS	Boundstone/Mudstone/Wackestone/Packstone	top and bottom of large sample is algal bound stone, in between is two layers (2-4 cm thick) of mud/wk, possibly fine grained Packstone dominated by peloids, very interesting.						
?	AS2-1		CAG/ (P?/ T?F)	Packstone/Boundstone/Framestone	coralgal dominated, coral appears to be porites, possibly Tarbellastraea as well. Also present are bivalves, gastropods and an assortment of less prevalent skeletal fragments, echinoderms, bryozoans, g. algae, etc.						
?	NS 1		FGSWP	Wackestone/Packstone	skeletal peloidal Packstone with occasional large bivalves (disarticulated) and whole Gastropods with mud filling, also contains geopetals and lenticular pockets of skeletal/peloidal Packstone	mud to Pebble (mud dominant)	well/moderate	none/abundant	geopetals show little to no dip	moldic<5%	nice ornamentation on large bivalves
?	NS 2			assorted samples	assortment of interesting fossils including large, relatively intact oyster, well ornamented bivalve mold, large bivalve mold with filled borings and other bioturbation nicely preserved, and a few pieces of an unknown, 'laminated' Coral						
1b	1	X	VCC	Conglomerate?	Volcanic Fragments~ 15% Coral Fragments ~15%, Bryozoan Fragments ~5%, Bivalve Fragments ~5%, Foraminifera ~5%, Peloids ~10%, Sparry Calcite ~ 15%, Micrite ~15%	Pebble (~2.8cm) to mud	poor	moderate to abundant	none	moldic and interparticular ~10-15%	large Coral clasts contain some void space filled with Micrite, some with packstone (Skeletal) and some with Sparry Calcite. No clear order to why. Foraminifera are very well preserved and easily visible
1b	2		CGSPG	Packstone/Rudstone	very diverse assemblage, coral, bivalves, algae (red and green), Gastropods, Vermatids and other unidentifiables	mud to Pebble	v. Poor	abundant	none	moldic and interparticular ~20%	both Tarbellastraea and porites coral
1b	3		BFR/ FGSWP	Packstone	bivalves dominate this sample, some coral and algae are present as well but rare, bivalves up to 1.2 cm ~30%	mud to Pebble	poor	minor	none	moldic ~10%	
1b	4		CGSPG	Packstone	very diverse skeletal assemblage, no volcanic clasts for first time in section, all other major constituents present and generally evenly distributed	mud to coarse (rare v. coarse)	well	moderate to abundant	none	moldic ~5-15%	
1b	5		FGSWP	Wackestone/Packstone	very diverse skeletal assemblage, one large bivalve 2 cm, micritized partially	mud to coarse (v. coarse rare)	well	minor/abundant	none	moldic <5%	sample is salty
1b	6	X	FGSWP	Packstone	Red Algae ~5%, Peloids ~15%, Skeletal material appears to be largely preserved as molds ~35%, Micrite/Neomorphic Mud 45%	v. coarse sand to mud	moderate to well	abundant	burrowing - infilled with similar sediment	Moldic ~35%	infilling sediment is less Moldic than surrounding sediment, burrows appear to be ovate in cross section, but not terribly well preserved

qs2	2 X?	RAPG/ CGSPG	Packstone	Red Algae ~15%, Peloids ~10%, Bivalve Fragments ~10%, Ostracods/Foraminifera 5%, Micrite (Neomorphic Mud)~20%, Sparry Calcite 5%, rare Echinoderm Fragments, rare Green Algae Fragments, Possibly some rare Coral Fragments	v. coarse to mud	moderate to well	moderate	none	Moldic, intraparticle local interparticle ~35%	good preservation of encrusting Red Algae (some nice long flat pieces that are growing on a Bivalve mold. Possibly some Coral Fragments, but so dissolved it is hard to tell)
qs2	3									
qs2	4									
qs3	1	CGSPG	Wackestone/Packstone	diverse fauna, as described elsewhere						
qs3	2	CGSPG	Packstone	similar to fauna in sample 1, but less dispersed and coarser						
qs3	3	RAPG	Packstone	red algal skeletal peloidal Packstone as elsewhere						
qs3	4	CGSPG	Packstone	same as sample 3, but less red algae and more Vermetids, very porous, all chems appear to have been dissolved completely (except red algae)						
qs4	1	FGSWP	Packstone	fine grain skeletal peloidal Packstone						
qs4	2	CGSPG	Packstone	coarse grain coralline Packstone						
qs4	3	FPWP	Mudstone/Wackestone	micro porous peloidal (Packstone?) some black dot diagenesis, no easily visible skeletal material						
qs4	4	FGSWP	Mudstone/Wackestone	similar to sample 3, but there are some coarse sand sized molds present which were likely skeletal fragments						

* Intraclasts are well rounded, Skeletal Packstones containing Echinoderm Fragments, Bivalve Fragments, ooids, Foraminifera, Gastropods, Oyster Fragments, Red Algae Fragments, Vermatid Fragments and mud.

Matrix is altered, some early stage crystal development?

highly recrystallized

evidence for S.E.?

TCC 1

TCC 2

TCC 3

TCC 4

TCC 5

TCC 6

TCC 7

TCC 8

TCC 9

TCC 10

TCC 12

TCC 13

TCC 14

TCC 15

TCC 16

small crystals present, not readily visible on weathered surface

9B TS

