Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13 (3 crossed out, corrected to 4)

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 16X Sect.: 2 Interval: 13

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
F	Diatom
	Radiolarians
	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/~~3~~ 4/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 16X Sect.: 5 Interval: 25

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
	✓		

Select one and Check.

Percent Texture: Sand	Silt	Clay
15	85	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
5 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
10	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
85	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/~~3~~4/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 17X Sect.: 6 Interval: 35

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25 [	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
7	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
F	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/3/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 17X Sect.: 6 Interval: 72

Sediment Name: silty v.fine sand (pyritized)

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
70	30	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
45 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
20	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 17X Sect.: 7 Interval: 49

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Granular Sediment: Pelagic	Granular Sediment: Neritic	Chemical Sediment
	✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
3	97	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
1(	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
97	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/~~3~~ 4/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 18X Sect.: 3 Interval: 35

Sediment Name: clayey sandy silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
30	50	20

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
70	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
20	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
9	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
1	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/4/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 18X Sect.: 3 Interval: 56

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	35	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
F	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/~~3~~ 4/13

Expedition: 338 | Observer: KLM

Site: C0022 | Hole: B | Core: 19X | Sect.: 1 | Interval: 23

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
3	97	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
97	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: clear glass w/ no evidence of alteration

Form reviced after ODP, composition list reviced after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/4/13

Expedition: 338 | Observer: KLM

Site: C0022 | Hole: B | Core: 19X | Sect.: 1 | Interval: 68

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 19X Sect.: 4 Interval: 12

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
20	80	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
10	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
10	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
80	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/~~3~~4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 20X Sect.: 1 Interval: 48

Sediment Name: sand (pyritized)

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
100		

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
15	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
50	Pyrite ~~Grain~~
	Opaque Grain
	grain-coating cement

Fill percentage (Total must be 100).

Remarks: granule-size black fragment (angular) – poss. drilling-induced fracture

Sediment Smear Slide / Thin Section Description Sheet

Date 1/~~3~~ 4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 20X Sect.: 3 Interval: 77

Sediment Name: silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
60	40	

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
60 (	Quartz		Nannofossils	F	Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	5	Opaque Grain
	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
F	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
5	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
30	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES, 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1-4-13

Expedition: 338   Observer: KLM

Site: C0022   Hole: B   Core: 20X   Sect.: 7   Interval: 118

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	35	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
37 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
1	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
1	red-br. om

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C00 22 Hole: B Core: 21X Sect.: 2 Interval: 30

Sediment Name: tuffaceous clayey silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
1	44	55

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
5(	Quartz
5(	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
F	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
35	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
5	Nannofossils
F	Foraminifers
	Siliceous Grain
1	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: mud in 1st 3 sections of 21X is distinctly lighter in color

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 21X Sect.: 2 Interval: 33

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
2	98	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
98	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 21X Sect.: 2 Interval: 112

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
27	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
1	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
2	Diatom
F	Radiolarians
F	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
F	red-br. om

Fill percentage (Total must be 100).

Remarks: trace amts of brown microlitic glass

Form reviced after ODP, composition list reviced after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 21X Sect.: 7 Interval: 65

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
20 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
3	Diatom
1 (	Radiolarians
	Sillicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 21X Sect.: 10 Interval: 35

Sediment Name: silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
50	45	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
5	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
60	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
1	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 22K Sect.: 1 Interval: 129

Sediment Name: Silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
80	15	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
50	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5?	Pyrite Grain
10	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C00 22 Hole: B Core: 23X Sect.: 5 Interval: 127

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100)

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C00 22 Hole: B Core: 23X Sect.: 6 Interval: 16

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
15	85	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
5	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
10	Pumice
	Volcanic Lithic Grain
	Pieritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
85	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 24X Sect.: 1 Interval: 30

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment				Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic	
✓				

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
30	Quartz	F	Nannofossils	F	Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
70	Clay Minerals		Sillicoflagellates		
	Zeolites	F	Sponge Spicule	F	red-brown OM
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
	Crystal Grain				
F	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 24X Sect.: 1 Interval: 135

Sediment Name: coarse ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture: Sand	Silt	Clay
70	25	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
10	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
4	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
25	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
60	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
1	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: drilling mixed? soupy

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 24X Sect.: 5 Interval: 88

Sediment Name: silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
80	20	

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
35	Quartz		Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	15	Opaque Grain
	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
5	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
30	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
3	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
	Crystal Grain				
2	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C00 22 Hole: B Core: 24X Sect.: 5 Interval: 114

Sediment Name: clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	15	85

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
17	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
80	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluses
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/4/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 24X Sect.: 6 Interval: 88

Sediment Name: Sandy silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
30	55	15

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
15	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
50	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/5/13

Expedition: 338 | Observer: KLM

Site: C0022 | Hole: B | Core: 25X | Sect.: 1 | Interval: 19

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	20	80

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25 (Quartz + Feldspars)	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
75	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES. 20/Nov/2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/~~4~~ 5/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 26X Sect.: 1 Interval: 45

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
32(	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
1	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown ows

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 26X Sect.: 2 Interval: 122

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	90	10

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
8	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
83	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 26X Sect.: 4 Interval: 37.5

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
	✓		

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	95	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
F	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
95	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 27X Sect.: 2 Interval: 8

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
20	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
3	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 27X Sect.: CC Interval: 8

Sediment Name: silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	90	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
5	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
40	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
5	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 28X Sect.: 1 Interval: 90

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
1	29	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
32	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 | Observer KCM

Site: C0022 Hole: B Core: 28X Sect.: 4 Interval: 106

Sediment Name: Sandy silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
30	70	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
F	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5	Pyrite ~~Grain~~
20	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 28X Sect.: 5 Interval: 77

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/5/13

Expedition: 338

Observer: KCM

Site: C0022 Hole: B Core: 29X Sect.: 2 Interval: 24

Sediment Name: silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Silt	Clay
80	20	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
54	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
35	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain
F	rare brown glass
	some microlite

Fill percentage (Total must be 100).

Remarks: photo – pc w/ br. glass; also opx, MRF

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 29X Sect.: 5 Interval: 52

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	35	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
34	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/5/13

Expedition: 338

Observer: KCM

Site: C0022 Hole: B Core: 30X Sect.: 1 Interval: 24

Sediment Name: fine ash

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
	✓		

Select one and Check.

Percent Texture: Sand	Silt	Clay
	100	

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
F	Quartz		Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
	Crystal Grain				
100	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Form reviced after ODP, composition list reviced after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KCM

Site: C0022 Hole: B Core: 30K Sect.: 4 Interval: 78

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Pelagic	Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Silt	Clay
	40	60

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
33 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KLM

Site: C0022 Hole: B Core: 30X Sect.: 6 Interval: 120

Sediment Name: Sandy silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
20	70	10

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
38	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
9	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
35	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
5	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
1	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
2	~~Pyrite Grain~~ framboids
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: photo-nice MRF; micolitic glass; zoned feld

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KCM

Site: C0022 Hole: B Core: 31X Sect.: 1 Interval: 63

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
	35	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
10	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 31X Sect.: 3 Interval: 23

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 31X Sect.: 8 Interval: 118

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
2	33	65

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: photo: Zoned pc (small)

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 32X Sect.: CC Interval: 10

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	25	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KCM

Site: C0022 Hole: B Core: 33X Sect.: 2 Interval: 74

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	25	75

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
25	Quartz
(bracketed with Quartz)	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not disaggregate well

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 33X Sect.: 5 Interval: 84

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
5	40	55

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
37	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
2	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluses
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KLM

Site: C0022 Hole: B Core: 33X Sect.: 6 Interval: 55

Sediment Name: silty sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Chemical Sediment: Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
50	40	10

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
70	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
10	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
t	Foraminifers
	Siliceous Grain
1	Diatom
F	Radiolarians
	Silicoflagellates
1	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
5	Pyrite ~~Grain~~
15	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks: drilling mixed?, photo: OM

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KCM

Site: C0022 Hole: B Core: 34X Sect.: 1 Interval: 22

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Volcaniclastic	Pelagic	Neritic	Chemical Sediment
✓				

Select one and Check.

Percent Texture: Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition	Percent	Composition	Percent	Composition
	Siliciclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
32(	Quartz	F	Nannofossils	1	Calcareous Grain
	Feldspars	F	Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules / Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
65	Clay Minerals		Sillicoflagellates		
	Zeolites	F	Sponge Spicule	F	red-brown OM
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcanic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Aragonitic Grain		
	Dacitic Lithic Grain		Sideritic Grain		
	Rhyolitic Lithic Grain				
2	Crystal Grain				
	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 34X Sect.: 2 Interval: 4

Sediment Name: Silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment	Chemical Sediment		
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	30	70

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
3	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
2	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not disagree gate well

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 41X Sect.: 1 Interval: 70

Sediment Name: silty clay (almost clayey silt)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
√			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
√			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	45	55

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 41X Sect.: 3 Interval: 120

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
80	20	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
18	Quartz
40	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
20	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
?	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
20	Opaque Grain
	mud clasts on
	basaltic VRFs

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 41X Sect.: 4 Interval: 27

Sediment Name: Silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
80	20	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
25	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
3	Sedimentary Lithic Grain
	Igneous Lithic Grain
10	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
F	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
40	Opaque Grain
	↓
	Mudclasts (?)
	OR
	basaltic VRFs

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/5/13

Expedition: 338 Observer KCM

Site: C0022 Hole: B Core: 34X Sect.: 5 Interval: 81

Sediment Name: Sand

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Pelagic	Neritic
✓			

Select one and Check.

Percent Texture: Sand	Silt	Clay
90	10	

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
64	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
35	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: photo: euhedral feld; opx, feld w/ glass, lots of brown microlitic glass
good for more photos

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 35X Sect.: 6 Interval: 55

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment Siliciclastic	Volcaniclastic	Chemical Sediment Peragic	Neritic
✓			

Select one and check.

Percent Texture Sand	Silt	Clay
	45	55

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
45	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 35X Sect.: CC Interval: 62.5

Sediment Name: silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
10	85	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
50 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
3	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
40	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
2	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Form revised after ODP, composition list revised after J-CORES. 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/~~d~~6/13

Expedition: 338 | Observer: KCM

Site: C0022 | Hole: B | Core: 36X | Sect.: 3 | Interval: 85

Sediment Name: silt

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
10	85	5

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
50 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
5	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
8	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
1	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
10	Opaque Grain

Fill percentage (Total must be 100).

Remarks: minor brown glass

Form revised after ODP, composition list revised after J-CORES 20 Nov 2005

Sediment Smear Slide / Thin Section Description Sheet

Date 1/16/13

Expedition: 338

Observer KCM

Site: C0022 Hole: B Core: 36X Sect.: 5 Interval: 96

Sediment Name: silty clay

Refer to JOIDES Sediment Classification Scheme

Smear Slide	Thin Section	Coarse Fraction	Grain Mount
✓			

Select one and Check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Pelagic	Neritic
✓			

Select one and Check.

Percent Texture		
Sand	Silt	Clay
	40	60

Fill percentage (Total must be 100).

Percent	Composition
	Siliciclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcanic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rhyolitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Aragonitic Grain
	Sideritic Grain

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules / Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 37X Sect.: 1 Interval: 30

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	40	60

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
35	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
F	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 37X Sect.: 3 Interval: 15

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
85	10	5

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
49	Quartz		Nannofossils	F	Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	5	Opaque Grain
5	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
1	Heavy Minerals			F	red-brown OM
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
5	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
30	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
5	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 1 Interval: 18

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	30	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
29	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not fully disaggregate; has pyrite-framboid aggregates → cemented burrows?

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338 | Observer: KLM

Site: C0022 | Hole: B | Core: 38X | Sect.: 1 | Interval: 130

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
2	38	60

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
40	Quartz		Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
55	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
1	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
4	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338 — Observer: KLM

Site: C0022 — Hole: B — Core: 38X — Sect.: 1 — Interval: 134

Sediment Name: Clayey silt

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
5	50	45

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
55 (	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
40	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
4	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: Several small lath-work grains

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 2 Interval: 53

Sediment Name: Silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	40	60

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 2 Interval: 58

Sediment Name: silty clay Subunit bdry

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	30	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
30	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
65	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: 1st granule bed — appears as silty clay in smear — a few rounded aggregates may be clasts rather than undisagg. matrix

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 4 Interval: 74

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	45	55

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
35	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
9	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: dom. lithal above gravel bed

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 4 Interval: 106

Sediment Name: silty clay matrix of gravel bed

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment			Chemical Sediment
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	30	70

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
33	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
63	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 4 Interval: 125

Sediment Name: silty clay (possible mudstone cobble)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	35	65

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
39	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
60	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
1	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks: Color – less gray than rest of core – (brownish)

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 4 Interval: 136

Sediment Name: Silty clay (dom. lithol below gravel bed)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	25	75

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
29	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
70	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 5 Interval: 79

Sediment Name: medium silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
80	15	5

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
43	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
15	Sedimentary Lithic Grain
	Igneous Lithic Grain
10	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
1	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
20	Opaque Grain
	mostly larger grains
	May be mudstone clasts

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 5 Interval: 90

Sediment Name: clayey silt

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
10	40	50

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
45	Quartz		Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians	5	Opaque Grain
45	Clay Minerals		Sillicoflagellates		↓
	Zeolites		Sponge Spicule		
	Heavy Minerals				may be mud
	Pyrite				clasts ??
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
5	Vitric Grain				

Fill percentage (Total must be 100).

Remarks: photos: field w/ inclus.

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 6 Interval: 58

Sediment Name: silty clay (almost clay)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	20	80

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
25	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
75	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
F	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain
F	red-brown OM

Fill percentage (Total must be 100).

Remarks: lighter-colored mud

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 8 Interval: 58

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment Siliciclastic	Volcaniclastic	Chemical Sediment Peragic	Neritic
✓			

Select one and check.

Percent Texture Sand	Silt	Clay
	30	70

Select one and check.

Percent	Composition	Percent	Composition	Percent	Composition
	Siliclastic Grain		Pelagic Grain		Others
	Minerals		Calcareous Grain		Gypsiferous Grain
30	Quartz	F	Nannofossils		Calcareous Grain
	Feldspars		Foraminifers		Sapropelic Grain
	Micas		Siliceous Grain		Mn Nodules/ Crusts
	Ferromagnesian Minerals		Diatom		Pyrite Grain
	Glauconite		Radiolarians		Opaque Grain
65	Clay Minerals		Sillicoflagellates		
	Zeolites		Sponge Spicule		
	Heavy Minerals				
	Pyrite				
	Phospholite				
	Aragonite		Neritic Grain		
	Calcite		Ooid		
	Oolites		Spherical Particles		
	Lithic Grain		Elliptical Particles		
	Sedimentary Lithic Grain		Bioclast		
	Igneous Lithic Grain		Molluscan		
	Metamorphic Lithic Grain		Algal		
			Pellet		
			Molluscs		
			Echinoderms		
	Volcaniclastic Grain		Others		
	Scoria / Pumice		Intraclast		
	Scoria		Carbonate Rock Fragment		
	Pumice		Peloid		
	Volcaniclastic Lithic Grain		Pisolite		
	Picritic Lithic Grain		Calcareous Grain		
	Basaltic Lithic Grain		Dolomitic Grain		
	Andesitic Lithic Grain		Araginitic Graing		
	Dacitic Lithic Grain		Sideritic Graing		
	Rholitic Lithic Grain				
	Crystal Grain				
5	Vitric Grain				

Fill percentage (Total must be 100).

Remarks:

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 38X Sect.: 8 Interval: 72

Sediment Name: Clayey silty Sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
40	35	25

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
48	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
25	Clay Minerals
	Zeolites
1	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
10?	Sedimentary Lithic Grain
	Igneous Lithic Grain
5	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
1	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
1	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
1	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
2	Pyrite ~~Grain~~
5	Opaque Grain → poss. mudclasts?

Fill percentage (Total must be 100).

Remarks: up to coarse sd ; some brown microlitic glass

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 39 Observer: KLM

Site: C0022 Hole: B Core: ~~38~~ X Sect.: 5 Interval: 32

Sediment Name: silty clay

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	40	60

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
55	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: Some brown microlitic glass

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 39X Sect.: 5 Interval: 40

Sediment Name: Coarse ash (crystal ash in part!)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
	✓		

Select one and check.

Percent Texture		
Sand	Silt	Clay
60	40	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
	Quartz
10	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
30	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
45	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
15	Opaque Grain

Fill percentage (Total must be 100).

Remarks: photos –

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 40X Sect.: 2 Interval: 65

Sediment Name: clayey silt

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	60	40

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
20	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
35	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
20	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
5	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
5	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
10	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: many microlitic

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 40X Sect.: 5 Interval: 8

Sediment Name: silty clay (dom. lithol)

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
	45	55

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
40	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
50	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
	Sedimentary Lithic Grain
	Igneous Lithic Grain
F	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
1	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
8	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
1	Pyrite ~~Grain~~
	Opaque Grain

Fill percentage (Total must be 100).

Remarks: did not disaggregate well

Sediment Smear Slide / Thin Section Description Sheet

Date: 1/6/13

Expedition: 338

Observer: KLM

Site: C0022 Hole: B Core: 40X Sect.: 5 Interval: 41

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment: Siliciclastic	Granular Sediment: Volcaniclastic	Chemical Sediment: Peragic	Neritic
✓			

Select one and check.

Percent Texture: Sand	Silt	Clay
60	40	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
15	Quartz
25	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
2	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
20	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
3	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
2	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
F	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
F	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
3	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
20	Opaque Grain

Fill percentage (Total must be 100).

Remarks: Several lathwork VRFs; quite a mix of forams, glass, + heavies

Sediment Smear Slide / Thin Section Description Sheet

Date 1/6/13

Expedition: 338 Observer: KLM

Site: C0022 Hole: B Core: 40X Sect.: 5 Interval: 69

Sediment Name: silty sand

Smear Slide	Thin Section	Coarse Feaction	Grain Mounrt
✓			

Select one and check.

Granular Sediment		Chemical Sediment	
Siliciclastic	Volcaniclastic	Peragic	Neritic
✓			

Select one and check.

Percent Texture		
Sand	Silt	Clay
70	30	

Select one and check.

Percent	Composition
	Siliclastic Grain
	Minerals
45	Quartz
	Feldspars
	Micas
	Ferromagnesian Minerals
	Glauconite
	Clay Minerals
	Zeolites
	Heavy Minerals
	Pyrite
	Phospholite
	Aragonite
	Calcite
	Oolites
	Lithic Grain
5	Sedimentary Lithic Grain
	Igneous Lithic Grain
30	Metamorphic Lithic Grain
	Volcaniclastic Grain
	Scoria / Pumice
	Scoria
F	Pumice
	Volcaniclastic Lithic Grain
	Picritic Lithic Grain
10	Basaltic Lithic Grain
	Andesitic Lithic Grain
	Dacitic Lithic Grain
	Rholitic Lithic Grain
	Crystal Grain
5	Vitric Grain

Percent	Composition
	Pelagic Grain
	Calcareous Grain
	Nannofossils
	Foraminifers
	Siliceous Grain
	Diatom
	Radiolarians
	Sillicoflagellates
	Sponge Spicule
	Neritic Grain
	Ooid
	Spherical Particles
	Elliptical Particles
	Bioclast
	Molluscan
	Algal
	Pellet
	Molluscs
	Echinoderms
	Others
	Intraclast
	Carbonate Rock Fragment
	Peloid
	Pisolite
	Calcareous Grain
	Dolomitic Grain
	Araginitic Graing
	Sideritic Graing

Percent	Composition
	Others
	Gypsiferous Grain
	Calcareous Grain
	Sapropelic Grain
	Mn Nodules/ Crusts
	Pyrite Grain
10	Opaque Grain
	poss. mudclasts
	+
	lath-work VRFs

Fill percentage (Total must be 100).

Remarks: