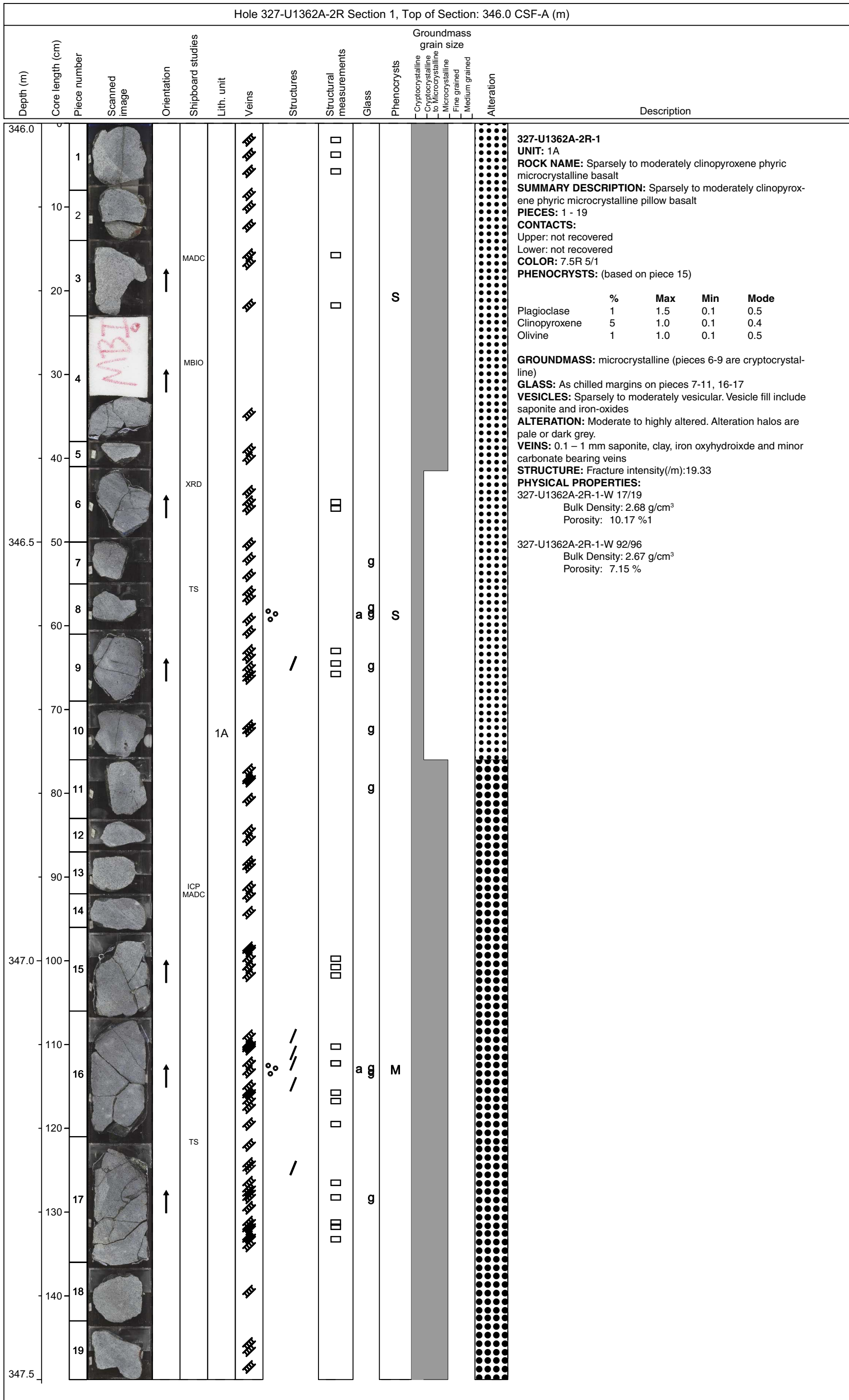


Core Photo

Hole 327-U1362A-13 Section 1, Top of Section: 230.0 CSF-A (m)													
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description
												Cryptocrystalline Crystalline to Microcrystalline Microcrystalline Fine grained Medium grained	
230.0	0	1			XRD								<p>327-U1362A-13-1 BASALT: Cm and smaller chips of variably altered basalt (see alteration comments). Some have plagioclase phenocrysts. Non vesicular. ALTERATION: Variable alteration from slight to complete. Colors range from dark grey, pale green, red, red-brown coating, green coating. Fine grained sulfides in a grey fine grained matrix. Three small chips have epidote crystals within basalt. White crystals (hardness greater than 6) also recovered. GLASS: <1mm to mm sized glass fragments recovered. Sometimes attached to basalt as a rind but also as disaggregated pieces.</p>
	10	2			XRD								
		3			XRD								
	20	4											
		5											
	30	6			XRD								
		7											
	40	8											
230.5	50	9			TS								
	60												
	70	10			ICP								
	80												



Core Photo



Core Photo

Hole 327-U1362A-2R Section 2, Top of Section: 347.5 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
347.5	0	1								g			<p>327-U1362A-2R-2 UNIT: 1A ROCK NAME: Sparsely to moderately plagioclase clinopyroxene phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Sparsely to moderately plagioclase clinopyroxene phyric cryptocrystalline pillow basalt PIECES: 1 - 11 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 7)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2.5</td> <td>1.5</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>2.5</td> <td>2.0</td> <td>0.1</td> <td>0.2</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>0.3</td> <td>0.1</td> <td>0.1</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (pieces 10 and 11 are microcrystalline) GLASS: As chilled margins on piece 1, 4, 6 and 8 VESICLES: Sparsely vesicular. Vesicle fill include saponite, white and iron-oxides ALTERATION: Slight to moderately altered. Background alteration is patchy and alteration halos are dark grey with orange patches. Piece 4b is all an alteration halo VEINS: 0.1 – 0.2 mm saponite, clay and iron oxyhydroxide veins. STRUCTURE: Fracture intensity(/m): 17.82 PHYSICAL PROPERTIES: 327-U1362A-2R-2-W 40/42 Bulk Density: 2.66 g/cm³ Porosity: 8.89 % 327-U1362A-2R-2-W 90/92 Bulk Density: 2.85 g/cm³ Porosity: 5.76 %</p>		%	Max	Min	Mode	Plagioclase	2.5	1.5	0.5	0.5	Clinopyroxene	2.5	2.0	0.1	0.2	Olivine	1	0.3	0.1	0.1
	%	Max	Min	Mode																													
Plagioclase	2.5	1.5	0.5	0.5																													
Clinopyroxene	2.5	2.0	0.1	0.2																													
Olivine	1	0.3	0.1	0.1																													
	10	2																															
	20	3																															
	30	4		↑				/	□	g																							
	40	5		↑	MADC			/	□		M																						
348.0	50				MBIO	1A			□																								
	60	6		↑					□	g																							
	70	7		↑				/	□																								
	80	8		↑	TS ICP				□	g																							
	90	9																															
	100	10			MADC																												
348.5	100	11									S																						

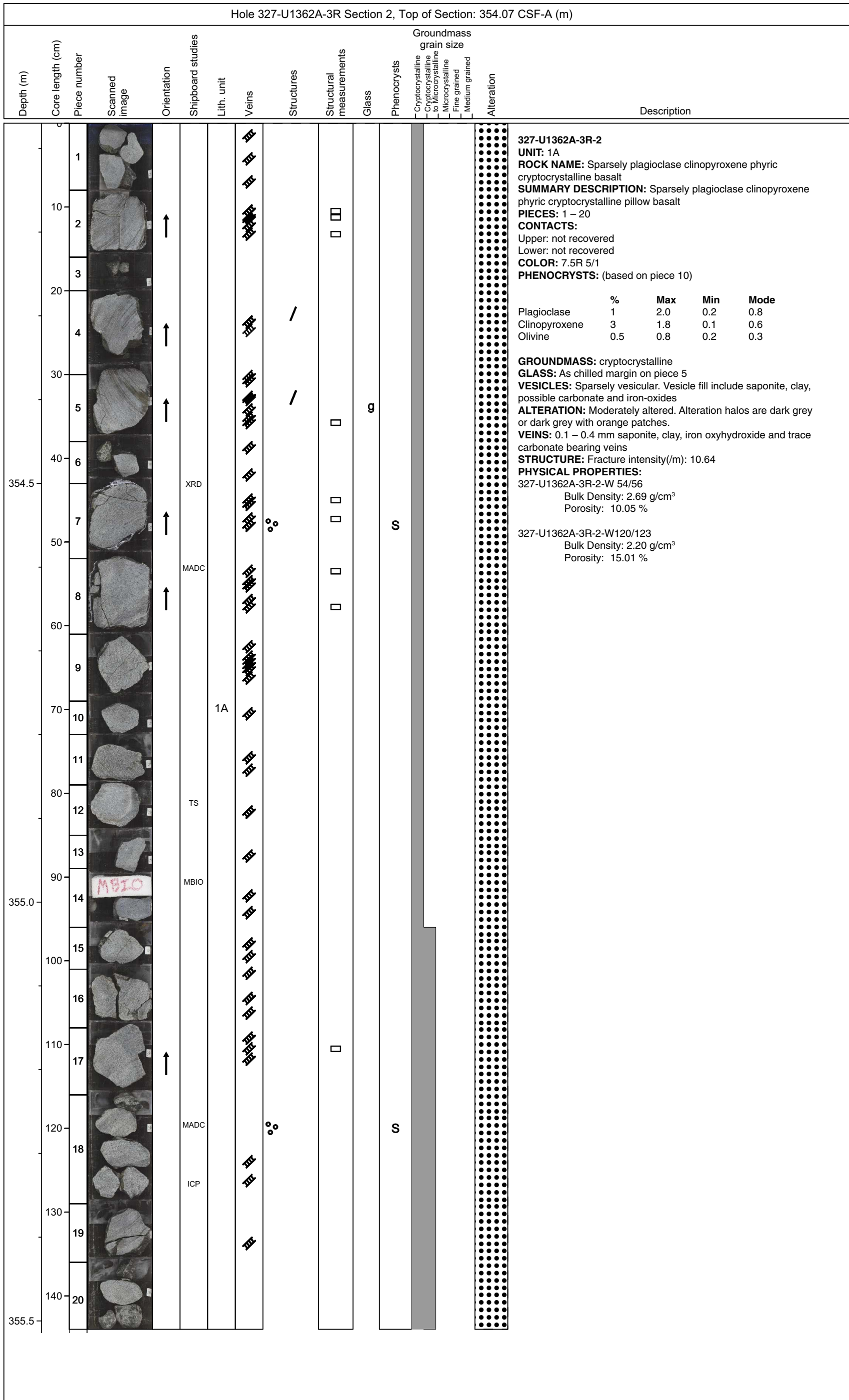


Core Photo

Hole 327-U1362A-3R Section 1, Top of Section: 352.6 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																					
353.0	10	1		↑	MADC					g			<p>327-U1362A-3R-1 UNIT: 1A ROCK NAME: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline pillow basalt PIECES: 1 - 17 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>2.0</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>1.8</td> <td>0.2</td> <td>0.3</td> </tr> <tr> <td>Olivine</td> <td>0.5</td> <td>0.8</td> <td>0.2</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (pieces 10-17 are cryptocrystalline) GLASS: Pieces 1, 3, 15 and 16. As chilled margins on piece 3. VESICLES: Sparsely vesicular. Vesicle fill include saponite, white and iron-oxides ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos are dark grey with orange patches. VEINS: 0.1 – 2mm saponite, clay, iron oxyhydroxide and carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 12.24 PHYSICAL PROPERTIES: 327-U1362A-3R-1-W 1/4 Bulk Density: 2.59 g/cm³ Porosity: 10.90 % 327-U1362A-3R-1-W 50/52 Bulk Density: 2.61 g/cm³ Porosity: 9.58 % 327-U1362A-3R-1-W 113/115 Bulk Density: 2.86 g/cm³ Porosity: 2.76 %</p>		%	Max	Min	Mode	Plagioclase	1	2.0	0.2	0.4	Clinopyroxene	3	1.8	0.2	0.3	Olivine	0.5	0.8	0.2	0.3
	%	Max	Min	Mode																													
Plagioclase	1	2.0	0.2	0.4																													
Clinopyroxene	3	1.8	0.2	0.3																													
Olivine	0.5	0.8	0.2	0.3																													
	10	2		↑	XRD			/																									
	20	3		↑							g																						
	30	4									M																						
	40	5																															
	50	6			MADC																												
	60	7			MBIO																												
	70	8		↑		1A		⚡																									
	80	9																															
	90	10																															
	100	11			ICP																												
	110	12		↑																													
	120	13			MADC						S																						
	130	14																															
	140	15									g																						
	140	16									g																						
	140	17			TS																												



Core Photo



Core Photo

Hole 327-U1362A-5R Section 1, Top of Section: 364.7 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
365.0	10	1-4											327-U1362A-5R-1 UNIT: 1A ROCK NAME: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline pillow basalt PIECES: 1 - 22 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 15) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>2.0</td> <td>0.2</td> <td>0.8</td> </tr> <tr> <td>Olivine</td> <td><0.1</td> <td>0.2</td> <td>0.1</td> <td>0.2</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline GLASS: As chilled margins on pieces 7, 11 and 13 VESICLES: Sparsely vesicular. Vesicle fill include saponite, clay and iron-oxides ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos are dark grey, light grey, dark grey with orange patches or orange in color. VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 7.33 PHYSICAL PROPERTIES: 327-U1362A-5R-1-W 43/45 Bulk Density: 2.74 g/cm3 Porosity: 6.69 % 327-U1362A-5R-1-W 120/122 Bulk Density: 2.64 g/cm3 Porosity: 10.24 %		%	Max	Min	Mode	Plagioclase	1	3.0	0.2	1.0	Clinopyroxene	3	2.0	0.2	0.8	Olivine	<0.1	0.2	0.1	0.2
	%	Max	Min	Mode																													
Plagioclase	1	3.0	0.2	1.0																													
Clinopyroxene	3	2.0	0.2	0.8																													
Olivine	<0.1	0.2	0.1	0.2																													
	10	5			MBIO																												
	10	6		↑				/	□																								
	10	7								g																							
	10	8																															
	10	9			MADC																												
	10	10																															
	10	11								g																							
	10	12				1A				g	S																						
	10	13		↑					□ □ □	g																							
365.5	10	14																															
	10	15																															
	10	16																															
	10	17		↑					□ □																								
	10	18		↑																													
	10	19																															
	10	20			TS																												
	10	21																															
	10	22			MADC			/	□																								
366.0	10	23								g																							
	10	24																															
	10	25		↑		1B		/	□		M																						
	10	26			ICP																												

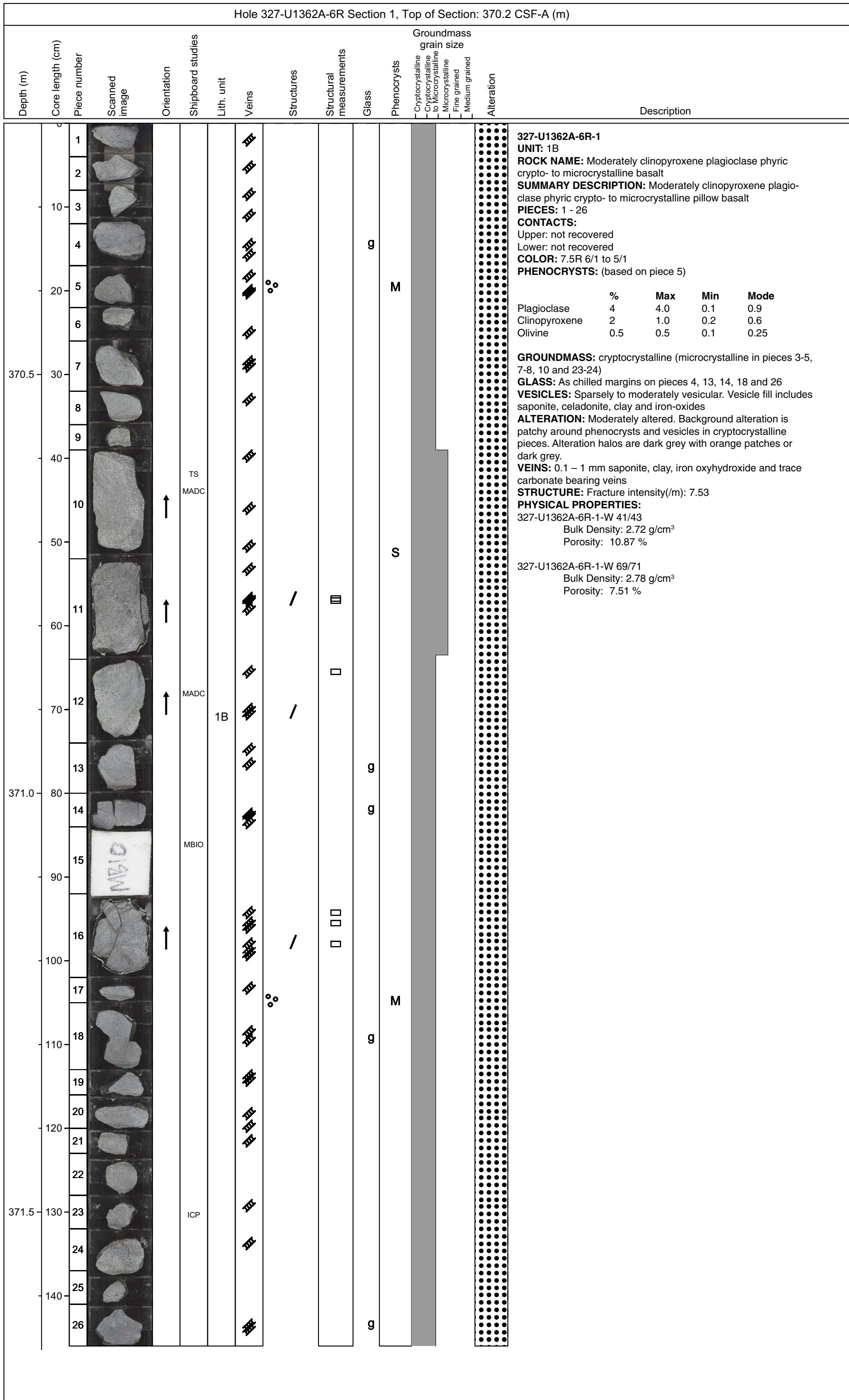


Core Photo

Hole 327-U1362A-5R Section 2, Top of Section: 366.2 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
366.5	0	1		↑									<p>327-U1362A-5R-2 UNIT: 1B ROCK NAME: Moderately olivine clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Moderately olivine clinopyroxene plagioclase phyric cryptocrystalline pillow basalt PIECES: 1 - 16 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 to 5/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>5</td> <td>3.0</td> <td>0.2</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>2.0</td> <td>0.2</td> <td>0.5</td> </tr> <tr> <td>Olivine</td> <td>2</td> <td>0.8</td> <td>0.1</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in pieces 1-3, 6 and 13) GLASS: As chilled margins on pieces 7-9, 11 and 16 VESICLES: Sparsely to moderately vesicular. Vesicle fill includes saponite, and green clay. ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos are dark grey or dark grey with orange patches. VEINS: 0.1 – 1 mm saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 4.00 PHYSICAL PROPERTIES: 327-U1362A-5R-2-W 11/13 Bulk Density: 2.76 g/cm³ Porosity: 6.78 % 327-U1362A-5R-2-W 66/68 Bulk Density: 2.83 g/cm³ Porosity: 4.96 %</p>		%	Max	Min	Mode	Plagioclase	5	3.0	0.2	0.5	Clinopyroxene	3	2.0	0.2	0.5	Olivine	2	0.8	0.1	0.3
	%	Max	Min	Mode																													
Plagioclase	5	3.0	0.2	0.5																													
Clinopyroxene	3	2.0	0.2	0.5																													
Olivine	2	0.8	0.1	0.3																													
	10	2		↑	MADC			/	□		M																						
	20	3		↑	TS			/	□																								
	30	4		↑																													
	40	5		↑																													
	50	6		↑																													
	60	7		↑		1B			□	g																							
	70	8		↑						g																							
	80	9		↑	ICP			⊙	□	g	M																						
	90	10		↑						g																							
	367.0	11		↑	MADC					g																							
		12		↑					□																								
		13		↑																													
		14		↑																													
		15		↑																													
		16		↑						g																							



Core Photo



Core Photo

Hole 327-U1362A-6R Section 2, Top of Section: 371.66 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
372.0	10	1		↑									<p>327-U1362A-6R-2 UNIT: 1B ROCK NAME: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Sparsely to moderately plagioclase clinopyroxene phyric microcrystalline pillow basalt PIECES: 1 - 26 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 to 5/1 PHENOCRYSTS: (based on piece 3)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>3</td> <td>1.5</td> <td>0.5</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>1.8</td> <td>0.1</td> <td>0.6</td> </tr> <tr> <td>Olivine</td> <td><0.5</td> <td>0.4</td> <td>0.1</td> <td>0.1</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline GLASS: As chilled margin on piece 11 VESICLES: Sparsely to moderately vesicular. Vesicle fill includes saponite, clay and iron-oxides ALTERATION: Moderately to highly altered. Background alteration is patchy around phenocrysts and vesicles in pieces 15 - 26. Alteration halos are dark grey with orange patches, pale grey or dark grey. VEINS: 0.1 – 0.3 mm saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 7.33 PHYSICAL PROPERTIES: 327-U1362A-6R-2-W 48/51 Bulk Density: 2.62 g/cm³ Porosity: 10.43 % 327-U1362A-6R-2-W 82/84 Bulk Density: 2.69 g/cm³ Porosity: 8.23 %</p>		%	Max	Min	Mode	Plagioclase	3	1.5	0.5	1.0	Clinopyroxene	5	1.8	0.1	0.6	Olivine	<0.5	0.4	0.1	0.1
	%	Max	Min	Mode																													
Plagioclase	3	1.5	0.5	1.0																													
Clinopyroxene	5	1.8	0.1	0.6																													
Olivine	<0.5	0.4	0.1	0.1																													
		2						/	□																								
		3		↑																													
		4		↑					□																								
		5																															
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		9																															
		10			MADC																												
		11		↑					□ □	g																							
		12		↑																													
		13																															
		14		↑	TS	1B																											
		15																															
		16																															
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		22		↑					□ □ □																								
		23																															
		24																															
		25																															
		26																															
372.5																																	
373.0																																	



Core Photo

Hole 327-U1362A-6R Section 3, Top of Section: 373.16 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
373.5	0	1								g			<p>327-U1362A-6R-3 UNIT: 1B ROCK NAME: Moderately olivine plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Moderately olivine plagioclase clinopyroxene phyric microcrystalline pillow basalt PIECES: 1 - 7 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 6)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>3.0</td> <td>0.3</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>1.2</td> <td>0.1</td> <td>0.5</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>0.4</td> <td>0.1</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (cryptocrystalline in pieces 5 and 7) GLASS: As chilled margins on piece 1 and 7 VESICLES: Sparsely vesicular. Vesicle fill includes saponite. ALTERATION: Highly altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos are dark grey with orange patches or pale grey. VEINS: 0.1 – 0.3 saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 0 PHYSICAL PROPERTIES: 327-U1362A-6R-3-W 25/27 Bulk Density: 2.77 g/cm³ Porosity: 6.85 %</p>		%	Max	Min	Mode	Plagioclase	2	3.0	0.3	0.5	Clinopyroxene	5	1.2	0.1	0.5	Olivine	1	0.4	0.1	0.3
	%	Max	Min	Mode																													
Plagioclase	2	3.0	0.3	0.5																													
Clinopyroxene	5	1.2	0.1	0.5																													
Olivine	1	0.4	0.1	0.3																													
	10	2																															
		3																															
		4				1B					M																						
	20	5																															
		6			MADC																												
	30	7								g																							



Core Photo

Hole 327-U1362A-7R Section 1, Top of Section: 379.8 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
380.0	10	1			ICP								<p>327-U1362A-7R-1 UNIT: 1B ROCK NAME: Sparsely clinopyroxene phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Sparsely clinopyroxene phyric cryptocrystalline pillow basalt PIECES: 1 - 16 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 8)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>0.5</td> <td>4.0</td> <td>0.1</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>1.9</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>Olivine</td> <td>0.5</td> <td>0.5</td> <td>0.2</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in piece 2) GLASS: Pieces 13, 15 and 16 VESICLES: Moderately vesicular. Vesicle fill includes saponite, iron-oxides, white, pale blue clay. ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos are dark grey with orange patches or dark grey. VEINS: 0.1 – 1 mm saponite, clay, iron oxyhydroxide and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 12.64 PHYSICAL PROPERTIES: 327-U1362A-7R-1-W 9/11 Bulk Density: 2.62 g/cm³ Porosity: 9.64 % 327-U1362A-7R-1-W 59/62 Bulk Density: 2.69 g/cm³ Porosity: 8.21 %</p>		%	Max	Min	Mode	Plagioclase	0.5	4.0	0.1	0.5	Clinopyroxene	2	1.9	0.2	0.4	Olivine	0.5	0.5	0.2	0.3
	%	Max	Min	Mode																													
Plagioclase	0.5	4.0	0.1	0.5																													
Clinopyroxene	2	1.9	0.2	0.4																													
Olivine	0.5	0.5	0.2	0.3																													
		2			MADC																												
		3																															
		4		↑				/	□ □ □ □																								
		5			TS																												
		6																															
		7																															
		8				1B					S																						
		9																															
		10																															
		11																															
		12			MADC																												
380.5	70	13		↑					□ □																								
		14			MBIO																												
		15																															
		16																															



Core Photo

Hole 327-U1362A-8R Section 1, Top of Section: 389.5 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																					
389.5	0	1											327-U1362A-8R-1 UNIT: 1B ROCK NAME: Moderately olivine plagioclase clinopyroxene phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Moderately olivine plagioclase clinopyroxene phyric cryptocrystalline pillow basalt PIECES: 1 - 11 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 3) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>2.0</td> <td>0.2</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>2.0</td> <td>0.2</td> <td>0.2</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>0.8</td> <td>0.1</td> <td>0.2</td> </tr> </tbody> </table> GROUNDMASS: cryptocrystalline GLASS: As a chilled margin in piece 9 VESICLES: Sparsely vesicular. Vesicle fill includes saponite, iron-oxides and green clay. ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos range from dark grey (±orange spots), yellow (±orange spots) to pale grey. VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 5.44 PHYSICAL PROPERTIES: 327-U1362A-8R-1-W 27/29 Bulk Density: 2.59 g/cm ³ Porosity: 9.71 %		%	Max	Min	Mode	Plagioclase	2	2.0	0.2	1.0	Clinopyroxene	3	2.0	0.2	0.2	Olivine	1	0.8	0.1	0.2
	%	Max	Min	Mode																													
Plagioclase	2	2.0	0.2	1.0																													
Clinopyroxene	3	2.0	0.2	0.2																													
Olivine	1	0.8	0.1	0.2																													
	10	2																															
		3																															
		4																															
		5																															
	20	6			1B						M																						
		7			MADC																												
		8																															
		9								g																							
		10																															
		11																															
390.0	50	12		↑									327-U1362A-8R-1 UNIT: 2 ROCK NAME: Moderately olivine clinopyroxene phyric fine grained basalt SUMMARY DESCRIPTION: Moderately olivine clinopyroxene phyric fine grained basalt flow PIECES: 12 - 22 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 14) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td><0.1</td> <td>2.0</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>7</td> <td>4.5</td> <td>0.2</td> <td>0.1</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>2.0</td> <td>0.5</td> <td>0.5</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline to fine grained. Grain size increases down through the section. VESICLES: Sparsely vesicular. Vesicle fill includes saponite, iron-oxides and green clay. ALTERATION: Highly altered. Background alteration is uniform. Alteration halos are dark grey with orange spots. VEINS: 0.1 – 1 mm saponite, iron oxyhydroxide and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 5.44 PHYSICAL PROPERTIES: 327-U1362A-8R-1-W 107/109 Bulk Density: 2.81 g/cm ³ Porosity: 8.18 %		%	Max	Min	Mode	Plagioclase	<0.1	2.0	1.5	1.5	Clinopyroxene	7	4.5	0.2	0.1	Olivine	1	2.0	0.5	0.5
	%	Max	Min	Mode																													
Plagioclase	<0.1	2.0	1.5	1.5																													
Clinopyroxene	7	4.5	0.2	0.1																													
Olivine	1	2.0	0.5	0.5																													
		13		↑	MBIO																												
		14		↑																													
		15		↑																													
		16		↑																													
	100	17		↑	MADC																												
		18		↑	ICP																												
		19		↑																													
		20		↑		2																											
		21		↑																													
		22		↑	TS																												



Core Photo

Hole 327-U1362A-8R Section 2, Top of Section: 390.97 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
391.0	10	1		↑									<p>327-U1362A-8R-2 UNIT: 2 ROCK NAME: Moderately olivine clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Moderately olivine clinopyroxene phyric microcrystalline basalt flow PIECES: 1 - 21 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 to 6/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td><0.1</td> <td>2.0</td> <td>1.5</td> <td>1.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>7</td> <td>4.5</td> <td>0.2</td> <td>0.1</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>2.0</td> <td>0.5</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (Increases to fine grained in pieces 1 - 4) GLASS: As a chilled margin in piece 5 and 20 VESICLES: Non-vesicular to moderately vesicular. Vesicle distribution is heterogeneous, pieces 1 - 4 are sparsely vesicular, pieces 15 and 16 are moderately vesicular and 5 - 14 and 17 - 21 are non-vesicular. Where present vesicle fill includes saponite, iron-oxides and green clay. ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles in pieces 7-9, 11-13, 17-18 and 21. Alteration halos range from dark grey (±orange spots), pale grey (±orange spots), dark grey and orange layers. VEINS: 0.1 - 0.5 mm saponite, clay, iron oxyhydroxide, and trace carbonate and zeolite bearing veins STRUCTURE: Fracture intensity(/m): 1.33 PHYSICAL PROPERTIES: 327-U1362A-8R-2-W 71/73 Bulk Density: 2.73 g/cm³ Porosity: 7.69 % 327-U1362A-8R-2-W 100/102 Bulk Density: 2.88 g/cm³ Porosity: 13.16 % 327-U1362A-8R-2-W 118/120 Bulk Density: 2.76 g/cm³ Porosity: 8.50 %</p>		%	Max	Min	Mode	Plagioclase	<0.1	2.0	1.5	1.5	Clinopyroxene	7	4.5	0.2	0.1	Olivine	1	2.0	0.5	0.5
	%	Max	Min	Mode																													
Plagioclase	<0.1	2.0	1.5	1.5																													
Clinopyroxene	7	4.5	0.2	0.1																													
Olivine	1	2.0	0.5	0.5																													
		2		↑							M																						
		3		↑																													
		4																															
		5																															
		6																															
		7																															
391.5		8																															
		9																															
		10																															
		11			MADC	2																											
		12																															
		13																															
		14																															
		15																															
		16		↑	MADC ICP						A																						
392.0		17																															
		18		↑	MADC																												
		19		↑	ICP																												
		20																															
		21																															

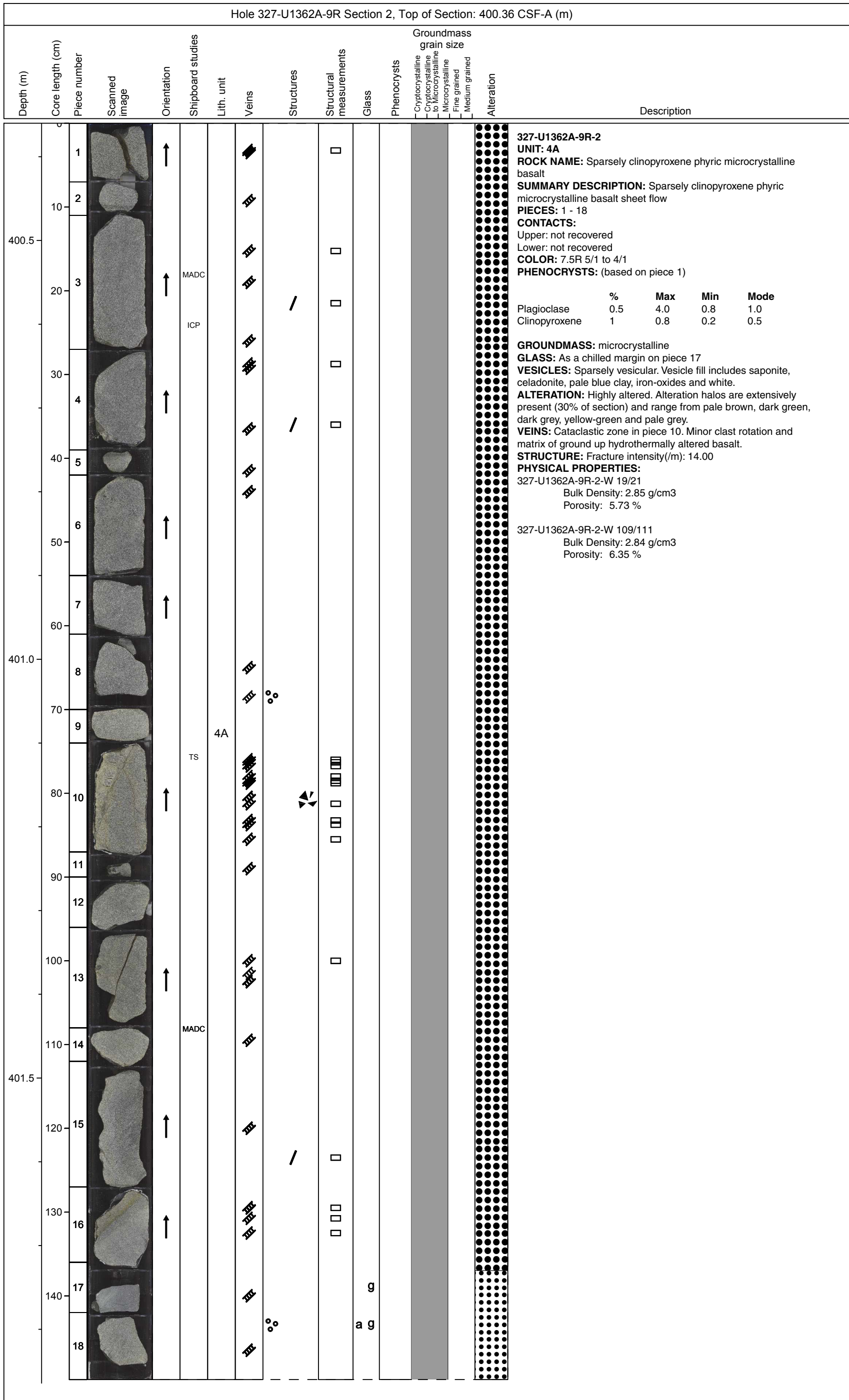


Core Photo







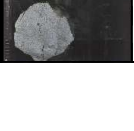

Hole 327-U1362A-9R Section 1, Top of Section: 399.2 CSF-A (m)																																		
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained	Alteration	Description																				
399.5	10	1								g				<p>327-U1362A-9R-1 UNIT: 3 ROCK NAME: Sparsely clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Sparsely clinopyroxene plagioclase phyric cryptocrystalline pillow basalt PIECES: 1 - 11 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 9)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>7.0</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>1.0</td> <td>0.1</td> <td>0.2</td> </tr> <tr> <td>Olivine</td> <td>0.1</td> <td>0.6</td> <td>0.4</td> <td>0.4</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in piece 7) GLASS: As chilled margins on pieces 1, 3 and 11 VESICLES: Sparsely vesicular. Vesicle fill includes saponite, iron-oxides and white. ALTERATION: Moderately altered. Background alteration is patchy around phenocrysts and vesicles. Alteration halos range from dark grey (±orange spots) to orange. VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide, and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 9.40 PHYSICAL PROPERTIES: 327-U1362A-9R-1-W 29/31 Bulk Density: 2.67 g/cm3 Porosity: 7.99 %</p>		%	Max	Min	Mode	Plagioclase	2	7.0	0.2	0.4	Clinopyroxene	1	1.0	0.1	0.2	Olivine	0.1	0.6	0.4	0.4
	%	Max	Min	Mode																														
Plagioclase	2	7.0	0.2	0.4																														
Clinopyroxene	1	1.0	0.1	0.2																														
Olivine	0.1	0.6	0.4	0.4																														
	10	2								g																								
	10	3								g																								
	10	4								g																								
	10	5								g																								
	10	6			MADC	3				S																								
	10	7								S																								
	10	8								S																								
	10	9								S																								
	10	10								S																								
	10	11								g																								
400.0	10	12											<p>327-U1362A-9R-1 UNIT: 4A ROCK NAME: Sparsely clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: Sparsely clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 12 - 23 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 4/1 PHENOCRYSTS: (based on piece 19)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>0.5</td> <td>4.0</td> <td>0.8</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>0.8</td> <td>0.2</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicle fill includes saponite, celadonite, pale blue clay, iron-oxides and white. ALTERATION: Highly altered. Alteration halos are extensively present (45% of interval) and range from pale brown, dark green, dark grey, yellow-green and pale grey. VEINS: 0.1 – 1 mm saponite, clay, iron oxyhydroxide, celadonite and trace carbonate bearing veins STRUCTURE: Fracture intensity(/m): 9.40 PHYSICAL PROPERTIES: 327-U1362A-9R-1-W 130/132 Bulk Density: 2.79 g/cm3 Porosity: 7.96 %</p>		%	Max	Min	Mode	Plagioclase	0.5	4.0	0.8	1.0	Clinopyroxene	1	0.8	0.2	0.5						
	%	Max	Min	Mode																														
Plagioclase	0.5	4.0	0.8	1.0																														
Clinopyroxene	1	0.8	0.2	0.5																														
	10	13																																
	10	14		↑				/																										
	10	15		↑																														
	10	16		↑	MBIO																													
	10	17		↑		4A		/																										
	10	18		↑				/																										
	10	19		↑				/																										
	10	20		↑				/																										
	10	21		↑																														
400.5	10	22		↑	TS																													
	10	23		↑																														



Core Photo



Core Photo

Hole 327-U1362A-10R Section 1, Top of Section: 408.8 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
409.0	10	1											<p>327-U1362A-10R-1 UNIT: 4B ROCK NAME: Moderately olivine clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: Moderately olivine clinopyroxene plagioclase phyric cryptocrystalline basalt sheet flow PIECES: 1 - 4 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 4)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>3</td> <td>0.6</td> <td>0.2</td> <td>0.4</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>0.8</td> <td>0.1</td> <td>0.2</td> </tr> <tr> <td>Olivine</td> <td>1</td> <td>0.8</td> <td>0.3</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline VESICLES: Non vesicular. Trace vesicles filled with saponite. ALTERATION: Moderately altered. Alteration halos are pale dark grey with orange spots VEINS: 0.1 – 0.9 mm saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 0 PHYSICAL PROPERTIES: -</p>		%	Max	Min	Mode	Plagioclase	3	0.6	0.2	0.4	Clinopyroxene	2	0.8	0.1	0.2	Olivine	1	0.8	0.3	0.3
	%	Max	Min	Mode																													
Plagioclase	3	0.6	0.2	0.4																													
Clinopyroxene	2	0.8	0.1	0.2																													
Olivine	1	0.8	0.3	0.3																													
	20	2			4B						M																						
		3																															
		4																															












Core Photo

Hole 327-U1362A-11R Section 1, Top of Section: 414.9 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
415.0	10	1		↑				/	□				327-U1362A-11R-1 UNIT: 4C ROCK NAME: Aphyric fine-grained basalt SUMMARY DESCRIPTION: Aphyric fine-grained basalt sheet flow PIECES: 1 - 16 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 4/1 PHENOCRYSTS: (based on piece 13) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td><0.1</td> <td>7.0</td> <td>2.0</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>0.5</td> <td>3.0</td> <td>0.8</td> <td>1.0</td> </tr> </tbody> </table> GROUNDMASS: fine-grained VESICLES: Highly vesicular. Vesicles are filled with saponite, Feox, celadonite and pale blue saponite. ALTERATION: Highly altered. Background alteration varies from pale grey to dark green. Alteration halos are abundant and include layered pale green-pale brown-dark grey-dark orange brown, layered bright green/yellow-pale grey and dark grey with orange spots. VEINS: Saponite, clay, feox and talc bearing veins. STRUCTURE: Fracture intensity(/m): 8.15 PHYSICAL PROPERTIES: 327-U1362A-11R-1-W 44/46 Bulk Density: 2.71 g/cm ³ Porosity: 11.64 %		%	Max	Min	Mode	Plagioclase	<0.1	7.0	2.0	2.0	Clinopyroxene	0.5	3.0	0.8	1.0
	%	Max	Min	Mode																								
Plagioclase	<0.1	7.0	2.0	2.0																								
Clinopyroxene	0.5	3.0	0.8	1.0																								
		2							□																			
		3			MBIO																							
		4																										
		5																										
		6			TS																							
		7		↑	MADC																							
		8		↑					□																			
415.5	60	9				4C		⊙	□																			
		10		↑					□																			
		11		↑																								
		12		↑					□																			
		13		↑					□																			
416.0	110	14																										
		15		↑				⚡	□																			
		16		↑																								



Core Photo

Hole 327-U1362A-11R Section 2, Top of Section: 416.35 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																
416.5		1		↑	ICP	4C		/			A		<p>327-U1362A-11R-2 UNIT: 4C ROCK NAME: Aphyric fine-grained basalt SUMMARY DESCRIPTION: Aphyric fine-grained basalt sheet flow PIECES: 1 - 3 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 4/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td><0.1</td> <td>3.0</td> <td>2.0</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>0.5</td> <td>1.0</td> <td>0.5</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: fine-grained VESICLES: Moderately vesicular. Vesicles filled with saponite, celadonite and Feox ALTERATION: Highly altered. Alteration halos are dark green, pale brown or both. VEINS: 0.1 – 1 mm saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 17.65 PHYSICAL PROPERTIES: 327-U1362A-11R-2-W 26/28 Bulk Density: 2.75 g/cm3 Porosity: 10.10 %</p>		%	Max	Min	Mode	Plagioclase	<0.1	3.0	2.0	2.0	Clinopyroxene	0.5	1.0	0.5	0.5
	%	Max	Min	Mode																								
Plagioclase	<0.1	3.0	2.0	2.0																								
Clinopyroxene	0.5	1.0	0.5	0.5																								
		2			MADC																							
		3		↑				/																				



Core Photo

Hole 327-U1362A-12R Section 1, Top of Section: 419.9 CSF-A (m)																																											
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																														
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																															
420.0	10	1				4C					A		<p>327-U1362A-12R-1 UNIT: 4C ROCK NAME: Aphyric fine-grained basalt SUMMARY DESCRIPTION: Aphyric fine-grained basalt sheet flow PIECES: 1 – 2 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td><0.1</td> <td>3.0</td> <td>2.0</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>0.5</td> <td>1.0</td> <td>0.5</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: fine-grained VESICLES: Sparsely vesicular. Vesicles filled with saponite, pale green clay and Feox ALTERATION: Completely altered. Background alteration is patchy. Alteration halos are layered dark green – dark grey. VEINS: 0.1 mm saponite, clay and iron oxyhydroxide bearing veins STRUCTURE: Fracture intensity(/m): 9.30</p> <p>327-U1362A-12R-1 UNIT: 4D ROCK NAME: moderately plagioclase clinopyroxene phyrlic microcrystalline basalt SUMMARY DESCRIPTION: moderately plagioclase clinopyroxene phyrlic microcrystalline basalt sheet flow PIECES: 3 - 10 CONTACTS: Upper: chilled (piece 3 12R-1) Lower: chilled (piece 10 12R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 9)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>1.5</td> <td>1.0</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>5.0</td> <td>0.5</td> <td>2.0</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (cryptocrystalline in pieces 3 – 6) VESICLES: non-vesicular. Rare vesicles filled with saponite. ALTERATION: Moderately altered. Alteration halos are layered dark grey – dark green- pale brown – pale grey, dark grey or pale grey. VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide, trace carbonate and sulphide bearing veins. STRUCTURE: Fracture intensity(/m): 9.30 PHYSICAL PROPERTIES: 327-U1362A-12R-1-W 87/89 Bulk Density: 2.90 g/cm3 Porosity: 5.14 % 327-U1362A-12R-1-W 97/99 Bulk Density: 2.79 g/cm3 Porosity: 7.81 %</p>		%	Max	Min	Mode	Plagioclase	<0.1	3.0	2.0	2.0	Clinopyroxene	0.5	1.0	0.5	0.5		%	Max	Min	Mode	Plagioclase	1	1.5	1.0	1.0	Clinopyroxene	5	5.0	0.5	2.0
	%	Max	Min	Mode																																							
Plagioclase	<0.1	3.0	2.0	2.0																																							
Clinopyroxene	0.5	1.0	0.5	0.5																																							
	%	Max	Min	Mode																																							
Plagioclase	1	1.5	1.0	1.0																																							
Clinopyroxene	5	5.0	0.5	2.0																																							
		2																																									
		3																																									
		4																																									
		5																																									
		6																																									
		7		↑	XRD				□																																		
420.5	60	8		↑		4D		/	□		M																																
		9		↑					□																																		
		10		↑					□																																		
421.0	110				MADC				□																																		
					MADC				□																																		
					MADC				□																																		
									□																																		
									□																																		
					TS ICP				□																																		



Core Photo

Hole 327-U1362A-12R Section 2, Top of Section: 421.19 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
421.5	0	1		↑	MADC								<p>327-U1362A-12R-2 UNIT: 4D ROCK NAME: sparsely plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely plagioclase clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 10 CONTACTS: Upper: chilled (piece 3 12R-1) Lower: chilled (piece 10 12R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1c)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>4.0</td> <td>1.4</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>1.5</td> <td>0.3</td> <td>0.5</td> </tr> <tr> <td>Olivine</td> <td><0.5</td> <td>0.5</td> <td>0.4</td> <td>0.4</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline GLASS: As a chilled margin on piece 10 VESICLES: Sparsely vesicular. Vesicles filled with saponite, pale green clay and Feox. ALTERATION: Moderately altered. Alteration halos are up to 30 mm wide and layered dark grey – dark green- pale brown – pale grey, dark grey or orange. VEINS: 0.1 – 0.5 mm saponite, clay, celadonite, iron oxyhydroxide and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 5.41 PHYSICAL PROPERTIES: 327-U1362A-12R-2-W 3/5 Bulk Density: 2.79 g/cm3 Porosity: 7.36 % 327-U1362A-12R-2-W 96/98 Bulk Density: 2.64 g/cm3 Porosity: 8.30 %</p>		%	Max	Min	Mode	Plagioclase	1	4.0	1.4	2.0	Clinopyroxene	3	1.5	0.3	0.5	Olivine	<0.5	0.5	0.4	0.4
	%	Max	Min	Mode																													
Plagioclase	1	4.0	1.4	2.0																													
Clinopyroxene	3	1.5	0.3	0.5																													
Olivine	<0.5	0.5	0.4	0.4																													
	10																																
	20																																
	30																																
	40																																
	50				4D																												
	60	2								g	S																						
	70	3																															
	80	4			MBIO																												
	90	5		↑																													
422.0	100	6																															
	110	7																															
		8																															
		9			ICP MADC																												
		10								g																							
		11				5A				g	M																						



Core Photo

Hole 327-U1362A-13R Section 1, Top of Section: 429.5 CSF-A (m)																																	
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																				
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																					
429.5	0	1		↑	MADC								<p>327-U1362A-13R-1 UNIT: 5A ROCK NAME: moderately clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: moderately clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 18 CONTACTS: Upper: chilled (piece 11 12R-2) Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>6</td> <td>4.2</td> <td>0.8</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>3.0</td> <td>0.1</td> <td>0.3</td> </tr> <tr> <td>Olivine</td> <td>0.5</td> <td>0.6</td> <td>0.1</td> <td>0.2</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline GLASS: As chilled margins on pieces 12-13 VESICLES: Sparsely vesicular. Vesicles filled with saponite, pale green clay, pale blue clay and Feox. ALTERATION: Moderately altered. Alteration halos are dark grey or dark grey with orange spots VEINS: 0.1 – 3 mm saponite, clay, iron oxyhydroxide, talc and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 4.93 PHYSICAL PROPERTIES: 327-U1362A-13R-1-W 5/7 Bulk Density: 2.69 g/cm3 Porosity: 7.70 % 327-U1362A-13R-1-W 133/135 Bulk Density: 2.77 g/cm3 Porosity: 5.23 %</p>		%	Max	Min	Mode	Plagioclase	6	4.2	0.8	1.0	Clinopyroxene	1	3.0	0.1	0.3	Olivine	0.5	0.6	0.1	0.2
	%	Max	Min	Mode																													
Plagioclase	6	4.2	0.8	1.0																													
Clinopyroxene	1	3.0	0.1	0.3																													
Olivine	0.5	0.6	0.1	0.2																													
	10	2																															
	20	3																															
	30	4																															
	40	5																															
	40	6		↑	MBIO																												
	50	7			TS																												
430.0	50	8																															
	60	9																															
	70	10				5A																											
	80	11									M																						
	90	12								g																							
	100	13								g																							
	110	14		↑																													
430.5	100	15		↑																													
	110	16																															
	120	17			ICP MADC																												
	130	18																															
























Core Photo

Hole 327-U1362A-14R Section 1, Top of Section: 439.1 CSF-A (m)																																											
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description																														
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																															
439.5	10	1		↑	MADC								<p>327-U1362A-14R-1 UNIT: 5A ROCK NAME: moderately clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: moderately clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 – 3 CONTACTS: Upper: chilled (piece 11 12R-2) Lower: not recovered COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 2)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>5</td> <td>5</td> <td>0.6</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>4</td> <td>2.5</td> <td>0.6</td> <td>0.8</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, white and celadonite. ALTERATION: Completely altered. Background alteration is patchy. Alteration halos up to 45 mm wide and color varies from dark grey, layered dark green - dark grey to layered dark grey – dark grey with orange spots. VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide, celadonite bearing veins. STRUCTURE: Fracture intensity(/m): 0.83 PHYSICAL PROPERTIES: 327-U1362A-14R-1-W 8/10 Bulk Density: 2.69 g/cm3 Porosity: 14.06 % 327-U1362A-14R-1-W 11/13 Bulk Density: 2.82 g/cm3 Porosity: 6.49 %</p> <p>327-U1362A-14R-1 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 4 - 17 CONTACTS: Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 17)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>6.0</td> <td>0.1</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>3.5</td> <td>0.1</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline GLASS: As chilled margins on pieces 7, 8,10 and 12 VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, white and blue clay. Multiple fill (outside to core): saponite-white-saponite-white ALTERATION: Moderately altered. Background alteration is patchy. VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide, sulphides and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 0.83 PHYSICAL PROPERTIES: 327-U1362A-14R-1-W 117/119 Bulk Density: 2.68 g/cm3 Porosity: 9.77 %</p>		%	Max	Min	Mode	Plagioclase	5	5	0.6	2.0	Clinopyroxene	4	2.5	0.6	0.8		%	Max	Min	Mode	Plagioclase	10	6.0	0.1	1.0	Clinopyroxene	2	3.5	0.1	0.3
	%	Max	Min	Mode																																							
Plagioclase	5	5	0.6	2.0																																							
Clinopyroxene	4	2.5	0.6	0.8																																							
	%	Max	Min	Mode																																							
Plagioclase	10	6.0	0.1	1.0																																							
Clinopyroxene	2	3.5	0.1	0.3																																							
		2		↑	MADC	5A					M																																
		3																																									
		4																																									
		5			MBIO																																						
		6																																									
		7									g																																
		8			TS ICP						g																																
		9																																									
		10				5B					g	H																															
		11																																									
		12									g																																
440.0	10	13																																									
		14		↑																																							
		15																																									
		16																																									
		17			MADC																																						



Core Photo



Hole 327-U1362A-14R Section 2, Top of Section: 440.31 CSF-A (m)																													
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size		Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained	Alteration																
440.5		1		↑										<p>327-U1362A-14R-2 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 5 CONTACTS: Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 6/1 PHENOCRYSTS: (based on piece 5)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>3.0</td> <td>0.3</td> <td>0.8</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>0.8</td> <td>0.1</td> <td>0.2</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline GLASS: As chilled margins on pieces 2, 4, and 5 VESICLES: Sparsely vesicular. Vesicles filled with saponite, and white (carbonate). ALTERATION: Moderately altered. Background alteration is patchy. Halos are pale brown with orange spots VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide, and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 22.89</p>		%	Max	Min	Mode	Plagioclase	10	3.0	0.3	0.8	Clinopyroxene	2	0.8	0.1	0.2
	%	Max	Min	Mode																									
Plagioclase	10	3.0	0.3	0.8																									
Clinopyroxene	2	0.8	0.1	0.2																									
					5B																								
		2																											
					XRD																								
		3		↑																									
441.0		4																											
																													
		5																											

Core Photo

Hole 327-U1362A-15R Section 1, Top of Section: 448.6 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
449.0	10	1-22		↑	MADC					g			327-U1362A-15R-1 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 22 CONTACTS: Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 2) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>4.0</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>0.2</td> <td>0.1</td> <td>0.1</td> </tr> </tbody> </table> GROUNDMASS: cryptocrystalline GLASS: As chilled margins on pieces 1, 4, 11, 12 and 14-15 VESICLES: Sparsely vesicular. Vesicles filled with saponite, pale green clay, feox, and white (carbonate). Some examples show 2 or more cores with surrounding layers. ALTERATION: Highly altered. Background alteration is patchy. Halos are dark grey or pale grey with orange spots VEINS: 0.1 – 0.8 mm saponite, clay, iron oxyhydroxide, sulphides and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 1.33 PHYSICAL PROPERTIES: 327-U1362A-15R-1-W 40/44 Bulk Density: 2.69 g/cm3 Porosity: 5.51 % 327-U1362A-15R-1-W 133/135 Bulk Density: 2.73 g/cm3 Porosity: 6.55 %		%	Max	Min	Mode	Plagioclase	10	4.0	0.5	0.5	Clinopyroxene	5	0.2	0.1	0.1
	%	Max	Min	Mode																								
Plagioclase	10	4.0	0.5	0.5																								
Clinopyroxene	5	0.2	0.1	0.1																								
449.5	10	13		↑	MBIO	5B				g	H																	
450.0	10	14-22		↑	MADC ICP					g																		



Core Photo

Hole 327-U1362A-15R Section 2, Top of Section: 450.1 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
	1					5B					H		<p>327-U1362A-15R-2 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 2 Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 2)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>6.0</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>0.2</td> <td>0.1</td> <td>0.1</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline VESICLES: Sparsely vesicular. Vesicles filled with saponite, and white (carbonate) ALTERATION: moderately altered. Background alteration is patchy. VEINS: 0.1 mm saponite, clay, iron oxyhydroxide and sulphides bearing veins.</p>		%	Max	Min	Mode	Plagioclase	10	6.0	0.5	0.5	Clinopyroxene	5	0.2	0.1	0.1
	%	Max	Min	Mode																								
Plagioclase	10	6.0	0.5	0.5																								
Clinopyroxene	5	0.2	0.1	0.1																								
	2																											



Core Photo

Hole 327-U1362A-16R Section 1, Top of Section: 453.8 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
454.0	10	1		↑									<p>327-U1362A-16R-1 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 14 CONTACTS: Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 10)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>7</td> <td>4.0</td> <td>0.4</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>1.0</td> <td>0.1</td> <td>0.1</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in pieces 2-4) GLASS: As chilled margins in pieces 7-8 and 13-14 VESICLES: Sparsely vesicular. Vesicles filled with saponite, celadonite, various clays and white (carbonate) ALTERATION: highly altered. Background alteration is patchy in pieces 1 and 5-14. Halos are up to 30 mm and are dark grey, dark green or dark grey with orange spots. VEINS: 0.1 - 1 mm saponite, clay, iron oxyhydroxide, celadonite and trace carbonate and sulphide bearing veins. STRUCTURE: Fracture intensity(/m): 16.67 PHYSICAL PROPERTIES: 327-U1362A-16R-1-W 58/60 Bulk Density: 2.81 g/cm³ Porosity: 5.07 % 327-U1362A-16R-1-W 100/102 Bulk Density: 2.42 g/cm³ Porosity: 14.31 %</p>		%	Max	Min	Mode	Plagioclase	7	4.0	0.4	0.5	Clinopyroxene	5	1.0	0.1	0.1
	%	Max	Min	Mode																								
Plagioclase	7	4.0	0.4	0.5																								
Clinopyroxene	5	1.0	0.1	0.1																								
		2																										
		3																										
		4																										
		5		↑																								
		6		↑	MADC																							
454.5		7		↑		5B				g	H																	
		8		↑						g																		
		9		↑	MADC																							
		10		↑																								
455.0		11		↑																								
		12		↑	MBIO																							
		13		↑						g																		
		14		↑						g																		



Core Photo

Hole 327-U1362A-16R Section 2, Top of Section: 455.3 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
455.5	0-20	1-3		↑	ICP								327-U1362A-16R-2 UNIT: 5B ROCK NAME: highly clinopyroxene plagioclase phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric cryptocrystalline pillow lava PIECES: 1 - 7 CONTACTS: Upper: not recovered Lower: chilled (piece 7 16R-2) COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>5.5</td> <td>0.5</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>1.3</td> <td>0.1</td> <td>0.4</td> </tr> </tbody> </table> GROUNDMASS: cryptocrystalline GLASS: As chilled margins in pieces 2, 3, and 5 VESICLES: Sparsely vesicular. Vesicles filled with saponite, celadonite, various clays, Feox and white (carbonate) ALTERATION: highly altered. Background alteration is patchy. Halos are up to 30 mm and are dark grey with orange spots. VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 20.71 PHYSICAL PROPERTIES: 327-U1362A-16R-2-W 59/61 Bulk Density: 2.86 g/cm3 Porosity: 3.80 %		%	Max	Min	Mode	Plagioclase	10	5.5	0.5	1.0	Clinopyroxene	5	1.3	0.1	0.4
	%	Max	Min	Mode																								
Plagioclase	10	5.5	0.5	1.0																								
Clinopyroxene	5	1.3	0.1	0.4																								
456.0	20-70	4-6		↑	MADC	5B		/					327-U1362A-16R-2 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 8 - 9 CONTACTS: Upper: not recovered Lower: COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1 of 16R-3) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>3.0</td> <td>0.5</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>1.5</td> <td>0.3</td> <td>0.5</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, celadonite, various clays, Feox and pyrite. ALTERATION: Moderately altered. VEINS: 0.1 – 1 mm saponite, clay, iron oxyhydroxide, celadonite and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 20.71		%	Max	Min	Mode	Plagioclase	2	3.0	0.5	1.0	Clinopyroxene	2	1.5	0.3	0.5
	%	Max	Min	Mode																								
Plagioclase	2	3.0	0.5	1.0																								
Clinopyroxene	2	1.5	0.3	0.5																								
456.5	70-120	7		↑	XRD																							
	120-130	8		↑		6A		/																				
	130-135	9		↑	MBIO																							



Core Photo

Hole 327-U1362A-16R Section 3, Top of Section: 456.7 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
457.0	10	1		↑					□				327-U1362A-16R-3 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 - 5 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>3.0</td> <td>0.5</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>1.5</td> <td>0.3</td> <td>0.5</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, celadonite, various clays, Feox and pyrite. ALTERATION: Moderately altered. Halos up to 30 mm and are dark green to dark grey with orange spots VEINS: 0.1 – 1 mm saponite, clay, iron oxyhydroxide and trace carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 16.19 PHYSICAL PROPERTIES: 327-U1362A-16R-3-W 55/57 Bulk Density: 2.71 g/cm3 Porosity: 7.92 % 327-U1362A-16R-3-W 91/93 Bulk Density: 2.83 g/cm3 Porosity: 5.16 %		%	Max	Min	Mode	Plagioclase	2	3.0	0.5	1.0	Clinopyroxene	2	1.5	0.3	0.5
	%	Max	Min	Mode																								
Plagioclase	2	3.0	0.5	1.0																								
Clinopyroxene	2	1.5	0.3	0.5																								
	20	2							□																			
	30	3		↑					□																			
	40	4		↑		6A		/	□																			
	50				MADC						S																	
	60				ICP																							
	70								□																			
	80	5		↑				/	□																			
457.5	90				TS MADC				□																			
	100							/	□																			

Core Photo

Hole 327-U1362A-17R Section 1, Top of Section: 458.4 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																
458.5	10												327-U1362A-17R-1 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 - 2 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1e) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>2</td> <td>4.0</td> <td>1.5</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>2.0</td> <td>0.5</td> <td>1.0</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, carbonate, unidentified clays and pyrite. ALTERATION: Slightly altered. Secondary minerals generally restricted to filling vesicles VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide and trace zeolite bearing veins. STRUCTURE: Fracture intensity(/m): 4.17 PHYSICAL PROPERTIES: 327-U1362A-17R-1-W 38/40 Bulk Density: 2.81 g/cm ³ Porosity: 6.69 %		%	Max	Min	Mode	Plagioclase	2	4.0	1.5	2.0	Clinopyroxene	2	2.0	0.5	1.0
	%	Max	Min	Mode																								
Plagioclase	2	4.0	1.5	2.0																								
Clinopyroxene	2	2.0	0.5	1.0																								
					MADC																							
459.0	60							/																				
		1		↑		6A					S																	
459.5	110																											
		2																										



Core Photo

Hole 327-U1362A-17R Section 2, Top of Section: 459.84 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
460.0	10	1		↑				/	□				327-U1362A-17R-2 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 - 7 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 7b) <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>4.0</td> <td>1.0</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>2.0</td> <td>0.3</td> <td>0.5</td> </tr> </tbody> </table> GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, carbonate, unidentified clays, celadonite, Feox and pyrite. ALTERATION: Moderately altered. Halos are dark grey, dark grey with orange spots or layered dark green-orange VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide, celadonite, sulphides, carbonate and trace zeolite bearing veins. STRUCTURE: Fracture intensity(/m): 7.46 PHYSICAL PROPERTIES: 327-U1362A-17R-2-W 74/76 Bulk Density: 2.80 g/cm ³ Porosity: 6.02 %		%	Max	Min	Mode	Plagioclase	1	4.0	1.0	2.0	Clinopyroxene	1	2.0	0.3	0.5
	%	Max	Min	Mode																								
Plagioclase	1	4.0	1.0	2.0																								
Clinopyroxene	1	2.0	0.3	0.5																								
	20	2							□																			
	30	3																										
	40	4																										
	50	5		↑																								
	60	6						/	□																			
460.5	70					6A					S																	
	80				MADC																							
	90																											
	100	7		↑					□																			
	110																											
461.0	120								□																			
	130								□																			



Core Photo

Hole 327-U1362A-17R Section 3, Top of Section: 461.18 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
461.5	10	1		↑					□				<p>327-U1362A-17R-3 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 - 8 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 4a)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>11.0</td> <td>1.0</td> <td>2.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>3.0</td> <td>0.2</td> <td>0.4</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, carbonate, unidentified clays, celadonite and pyrite. ALTERATION: Moderately altered. Halos are dark grey or layered dark green-orange/brown VEINS: 0.1 – 0.5 mm saponite, clay, iron oxyhydroxide, celadonite, sulphides, and trace carbonate and zeolite bearing veins. STRUCTURE: Fracture intensity(/m): 15.64 PHYSICAL PROPERTIES: 327-U1362A-17R-3-W 49/51 Bulk Density: 2.75 g/cm³ Porosity: 7.21 %</p>		%	Max	Min	Mode	Plagioclase	1	11.0	1.0	2.5	Clinopyroxene	1	3.0	0.2	0.4
	%	Max	Min	Mode																								
Plagioclase	1	11.0	1.0	2.5																								
Clinopyroxene	1	3.0	0.2	0.4																								
	20	2																										
	30	3		↑																								
	40	4		↑	ICP MADC				□																			
	50	5		↑		6A			□		S																	
	60	6		↑					□																			
462.0	70	7		↑	MBIO			/	□																			
	80	8		↑				/	□																			
462.5	90			↑				/	□																			
	100								□																			
	110								□																			
	120								□																			
	130								□																			
	140								□																			



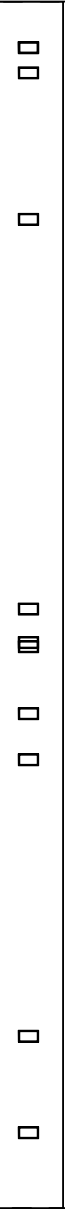



Core Photo

Hole 327-U1362A-17R Section 4, Top of Section: 462.68 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
0				↑									<p>327-U1362A-17R-4 UNIT: 6A ROCK NAME: sparsely clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 2 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1b)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>0.5</td> <td>3.0</td> <td>1.0</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>3.0</td> <td>0.2</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite, carbonate and blue clay ALTERATION: Moderately altered. VEINS: 0.1 – 0.5 mm saponite, clay, celadonite, sulphides, and carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 10.20 PHYSICAL PROPERTIES: 327-U1362A-17R-4-W 65/67 Bulk Density: 2.77 g/cm³ Porosity: 7.27 %</p>		%	Max	Min	Mode	Plagioclase	0.5	3.0	1.0	2.0	Clinopyroxene	1	3.0	0.2	0.5
	%	Max	Min	Mode																								
Plagioclase	0.5	3.0	1.0	2.0																								
Clinopyroxene	1	3.0	0.2	0.5																								
10		1		↑	XRD																							
20																												
30																												
463.0																												
40																												
50						6A					S																	
60		2		↑																								
70					MADC																							
80																												
463.5																												
90		3		↑																								



Core Photo

Hole 327-U1362A-17R Section 5, Top of Section: 463.66 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
0								/					<p>327-U1362A-17R-5 UNIT: 6A ROCK NAME: sparsely clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1f)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>1.8</td> <td>0.5</td> <td>1.2</td> </tr> <tr> <td>Clinopyroxene</td> <td>0.5</td> <td>2.0</td> <td>0.2</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Moderately vesicular. Vesicles filled with saponite and blue clay ALTERATION: Moderately altered. VEINS: 0.1 – 0.3 mm saponite, clay, sulphides, and carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 15.28 PHYSICAL PROPERTIES: 327-U1362A-17R-5-W 55/57 Bulk Density: 2.82 g/cm³ Porosity: 5.77 %</p>		%	Max	Min	Mode	Plagioclase	1	1.8	0.5	1.2	Clinopyroxene	0.5	2.0	0.2	0.5
	%	Max	Min	Mode																								
Plagioclase	1	1.8	0.5	1.2																								
Clinopyroxene	0.5	2.0	0.2	0.5																								
10																												
20																												
30						6A																						
36.4		1		↑							S																	
40																												
50																												
60					ICP MADC																							
70																												

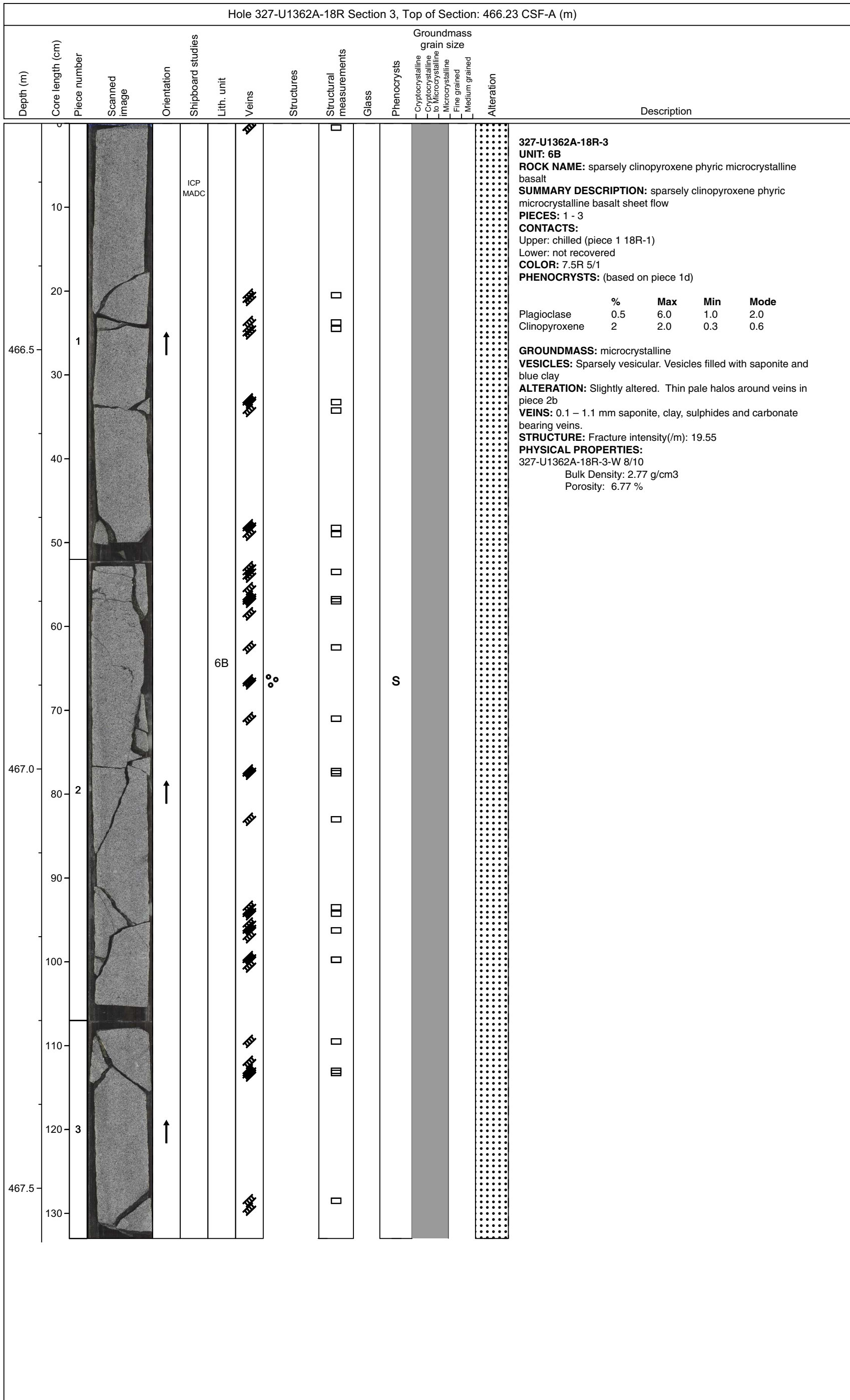


Core Photo

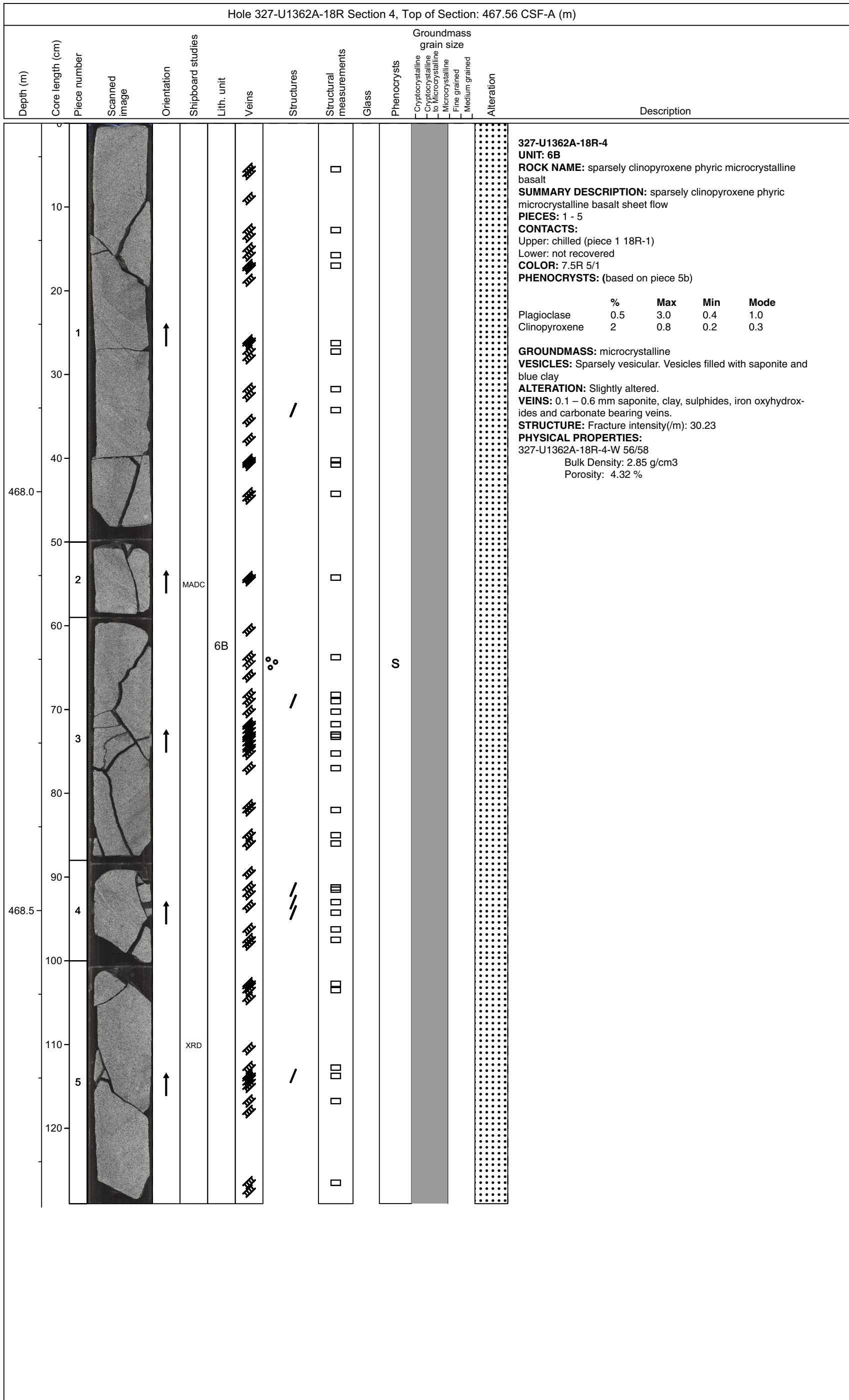
Hole 327-U1362A-18R Section 1, Top of Section: 463.4 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
463.5	10	1-4		↑									<p>327-U1362A-18R-1 UNIT: 6B ROCK NAME: sparsely clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 7 CONTACTS: Upper: chilled (piece 1 18R-1) Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 4a)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>0.5</td> <td>3.5</td> <td>0.2</td> <td>2.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>1.5</td> <td>0.2</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (cryptocrystalline in pieces 1 and 2) VESICLES: Sparsely vesicular. Vesicles filled with saponite, blue clay and white (carbonate) ALTERATION: Slightly altered. VEINS: 0.1 – 2 mm saponite, clay, sulphides, and carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 19.71 PHYSICAL PROPERTIES: 327-U1362A-18R-1-W 101/103 Bulk Density: 2.83 g/cm³ Porosity: 4.50 % 327-U1362A-18R-1-W 129/131 Bulk Density: 2.77 g/cm³ Porosity: 6.15 %</p>		%	Max	Min	Mode	Plagioclase	0.5	3.5	0.2	2.0	Clinopyroxene	2	1.5	0.2	0.5
	%	Max	Min	Mode																								
Plagioclase	0.5	3.5	0.2	2.0																								
Clinopyroxene	2	1.5	0.2	0.5																								
	20	5		↑																								
	30																											
	40																											
	50				MBIO																							
	60				XRD																							
464.0	70	6		↑		6B					S																	
	80																											
	90																											
	100				MBIO																							
	110				ICP MADC																							
464.5	120	7		↑				/																				
	130				MADC																							



Core Photo



Core Photo

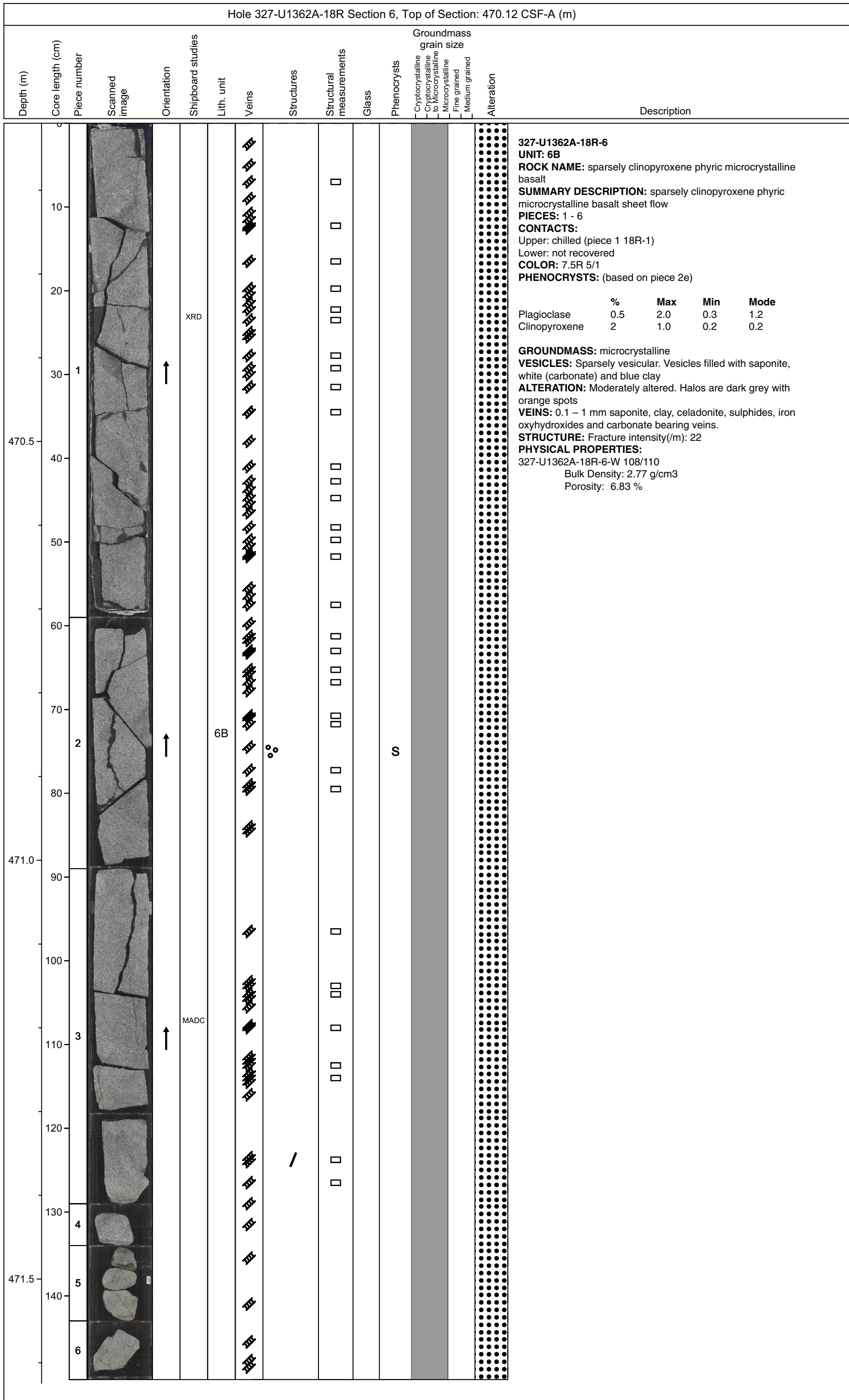


Core Photo

Hole 327-U1362A-18R Section 5, Top of Section: 468.85 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
469.0	10	1		↑				/					<p>327-U1362A-18R-5 UNIT: 6B ROCK NAME: sparsely clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 5 CONTACTS: Upper: chilled (piece 1 18R-1) Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 3a)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>0.5</td> <td>3.0</td> <td>0.8</td> <td>1.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>1</td> <td>1.8</td> <td>0.2</td> <td>0.4</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, pyrite and blue clay ALTERATION: Moderately altered. Halos layered dark grey – pale brown VEINS: ALTERATION: Slightly altered. VEINS: 0.1 – 0.3 mm saponite, clay, sulphides, iron oxyhydroxides and carbonate bearing veins. STRUCTURE: Fracture intensity(/m): 19.69 PHYSICAL PROPERTIES: 327-U1362A-18R-5-W 58/60 Bulk Density: 2.82 g/cm3 Porosity: 5.50 %</p>		%	Max	Min	Mode	Plagioclase	0.5	3.0	0.8	1.5	Clinopyroxene	1	1.8	0.2	0.4
	%	Max	Min	Mode																								
Plagioclase	0.5	3.0	0.8	1.5																								
Clinopyroxene	1	1.8	0.2	0.4																								
	20			↑	MADC																							
	30			↑	ICP MADC	6B					S																	
469.5	40	3		↑				/																				
	50			↑	TS			/																				
	60	4		↑																								
	70			↑																								
	80	5		↑																								
	90			↑																								
470.0	100			↑																								
	110			↑																								
	120			↑																								



Core Photo



Core Photo

Hole 327-U1362A-19R Section 1, Top of Section: 472.0 CSF-A (m)																																
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size					Description															
												Cryptocrystalline to Microcrystalline	Microcrystalline	Fine grained	Medium grained	Alteration																
472.0	0	1															<p>327-U1362A-19R-1 UNIT: 7A ROCK NAME: sparsely plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely plagioclase phyric microcrystalline basalt flow PIECES: 1 - 21 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 11)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>3.0</td> <td>0.5</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>0.5</td> <td>1.0</td> <td>0.2</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (cryptocrystalline in pieces 1-7 and 19-21) VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, celadonite, white and blue clay ALTERATION: Highly altered. Background alteration is patchy in pieces 1, 3, 5-7. Halos layered dark green – orange, dark grey with orange spots, dark grey or pale brown VEINS: 0.1 – 1 mm saponite, clay and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(/m): 4.67 PHYSICAL PROPERTIES: 327-U1362A-19R-1-W 27/29 Bulk Density: 2.74 g/cm3 Porosity: 5.25 % 327-U1362A-19R-1-W 71/73 Bulk Density: 2.65 g/cm3 Porosity: 10.61 %</p>		%	Max	Min	Mode	Plagioclase	1	3.0	0.5	0.5	Clinopyroxene	0.5	1.0	0.2	0.3
	%	Max	Min	Mode																												
Plagioclase	1	3.0	0.5	0.5																												
Clinopyroxene	0.5	1.0	0.2	0.3																												
	10	2																														
		3			TS ICP																											
	20	4																														
		5			MADC																											
	30	6																														
		7																														
	40	8																														
		9																														
472.5	50	10																														
		11		↑		7A					S																					
	60	12		↑																												
		13																														
	70	14																														
		15																														
	80	16																														
		17																														
473.0	100	18																														
		19																														
	110	20																														
		21																														
	120	22																														
		23																														
	130	24				7B																										
		25																														
	140	26																														
473.5																																



Core Photo

Hole 327-U1362A-19R Section 2, Top of Section: 473.5 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
473.5		1											<p>327-U1362A-19R-2 UNIT: 7B ROCK NAME: highly clinopyroxene plagioclase phyric microcrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene plagioclase phyric microcrystalline basalt sheet flow PIECES: 1 -21 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 6)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>10</td> <td>0.8</td> <td>0.1</td> <td>0.5</td> </tr> <tr> <td>Clinopyroxene</td> <td>5</td> <td>0.8</td> <td>0.1</td> <td>0.5</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline GLASS: As chilled margins on pieces 16, 20 and 21 VESICLES: Moderately vesicular. Vesicles filled with saponite, celadonite, Feox, white (carbonate) and blue clay ALTERATION: Moderately altered. Halos are dark grey with orange spots, dark grey and layered. Background alteration is patchy in pieces 3, 6 and 15-16 VEINS: 0.1 – 4 mm saponite, clay and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(/m): 2.52 PHYSICAL PROPERTIES: 327-U1362A-19R-2-W 11/13 Bulk Density: 2.77 g/cm3 Porosity: 4.83 % 327-U1362A-19R-2-W 98/100 Bulk Density: 2.69 g/cm3 Porosity: 9.91 %</p>		%	Max	Min	Mode	Plagioclase	10	0.8	0.1	0.5	Clinopyroxene	5	0.8	0.1	0.5
	%	Max	Min	Mode																								
Plagioclase	10	0.8	0.1	0.5																								
Clinopyroxene	5	0.8	0.1	0.5																								
		2																										
	10	3			MADC																							
		4																										
	20	5																										
		6																										
	30	7			TS ICP																							
		8																										
	40	9		↑																								
		10			MBIO																							
474.0	50	11				7B																						
	60	12																										
	70	13																										
		14																										
	80	15																										
		16		↑																								
	90	17																										
		18			MADC																							
474.5	100	19																										
		20																										
	110	21																										



Core Photo

Hole 327-U1362A-20R Section 1, Top of Section: 481.6 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
482.0	0	1		↑									<p>327-U1362A-20R-1 UNIT: 7B ROCK NAME: highly clinopyroxene phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene phyric cryptocrystalline basalt sheet flow PIECES: 1 - 20 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 17)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>7</td> <td>3.0</td> <td>0.1</td> <td>0.4</td> </tr> <tr> <td>Clinopyroxene</td> <td>4</td> <td>0.8</td> <td>0.1</td> <td>0.2</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in piece 10) GLASS: As chilled margin on piece 8 VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, celadonite, pyrite, white (carbonate?) and blue clay ALTERATION: Moderately altered. Halos dark grey, dark grey with orange spots and dark grey - pink VEINS: 0.1 – 2 mm saponite, clay, sulphides and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(m): 4.8 PHYSICAL PROPERTIES: 327-U1362A-20R-1-W 15/17 Bulk Density: 2.74 g/cm3 Porosity: 8.98 % 327-U1362A-20R-1-W 58/60 Bulk Density: 2.73 g/cm3 Porosity: 8.38 %</p>		%	Max	Min	Mode	Plagioclase	7	3.0	0.1	0.4	Clinopyroxene	4	0.8	0.1	0.2
	%	Max	Min	Mode																								
Plagioclase	7	3.0	0.1	0.4																								
Clinopyroxene	4	0.8	0.1	0.2																								
	10	2		↑	MADC			/																				
	20	3																										
	30	4																										
	40	5																										
	482.0	6			XRD																							
	50	7																										
	60	8								g																		
	70	9		↑	MADC	7B		/																				
	80	10																										
	90	11																										
	982.5	12																										
	100	13																										
	110	14			MBIO																							
	120	15																										
	130	16																										
	140	17																										
	150	18																										
	160	19																										
	170	20																										



Core Photo

Hole 327-U1362A-20R Section 2, Top of Section: 482.89 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained																
483.0	10	1		↑	MADC								<p>327-U1362A-20R-2 UNIT: 7B ROCK NAME: moderately clinopyroxene phyric cryptocrystalline basalt SUMMARY DESCRIPTION: highly clinopyroxene phyric cryptocrystalline basalt sheet flow PIECES: 1 - 11 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>3</td> <td>3.0</td> <td>0.2</td> <td>0.8</td> </tr> <tr> <td>Clinopyroxene</td> <td>3</td> <td>0.8</td> <td>0.1</td> <td>0.3</td> </tr> </tbody> </table> <p>GROUNDMASS: cryptocrystalline (microcrystalline in piece 2 and 3) GLASS: As chilled margin in piece 6 VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, celadonite and pyrite ALTERATION: Moderately altered. Halos dark grey, dark grey with orange spots and dark grey – pink. Background alteration patchy in pieces 9-11. VEINS: 0.1 – 1 mm saponite, clay, sulphides and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(/m): 5.33 PHYSICAL PROPERTIES: 327-U1362A-20R-2-W 11/13 Bulk Density: 2.75 g/cm³ Porosity: 9.14 %</p>		%	Max	Min	Mode	Plagioclase	3	3.0	0.2	0.8	Clinopyroxene	3	0.8	0.1	0.3
	%	Max	Min	Mode																								
Plagioclase	3	3.0	0.2	0.8																								
Clinopyroxene	3	0.8	0.1	0.3																								
	20	2		↑																								
	30	3		↑																								
	40	4		↑																								
	50	5		↑	7B						M																	
	60	6		↑						g																		
	70	7		↑																								
	80	8		↑																								
483.5	90	9		↑																								
	100	10		↑																								
	110	11		↑	TS ICP																							



Core Photo

Hole 327-U1362A-21R Section 1, Top of Section: 490.3 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
490.5	10	1		↑									<p>U1362A-21R-1 UNIT: 8 ROCK NAME: sparsely plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely plagioclase clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 22 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 5)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>2.5</td> <td>0.2</td> <td>1.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline (cryptocrystalline in pieces 9-13) GLASS: As chilled margins on pieces 11-13, 16-18 VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, pyrite and celadonite ALTERATION: Moderately altered. Halos dark grey, dark grey with pink, dark grey with orange spots and layered dark green-brown VEINS: 0.1 – 1 mm saponite, clay, sulphides, carbonate and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(/m): 5.33 PHYSICAL PROPERTIES: 327-U1362A-21R-1-W 32/34 Bulk Density: 2.67 g/cm³ Porosity: 11.29 % 327-U1362A-21R-1-W 93/95 Bulk Density: 2.71 g/cm³ Porosity: 10.74 %</p>		%	Max	Min	Mode	Plagioclase	1	3.0	0.2	1.0	Clinopyroxene	2	2.5	0.2	1.5
	%	Max	Min	Mode																								
Plagioclase	1	3.0	0.2	1.0																								
Clinopyroxene	2	2.5	0.2	1.5																								
	10	2																										
	10	3																										
	20	4		↑																								
	20	5																										
	30	6			MADC																							
	30	7																										
	40	8		↑																								
	40	9																										
	50	10																										
491.0	50	11				8				g	S																	
	60	12								g	S																	
	60	13								g	S																	
	70	14								g	S																	
	80	15		↑	MADC			/																				
	80	16			TS					g	S																	
	90	17			MBIO					g	S																	
491.5	100	18		↑						g	S																	
	110	19			ICP					g	S																	
	120	20								g	S																	
	130	21								g	S																	
	140	22		↑				/																				



Core Photo

Hole 327-U1362A-21R Section 2, Top of Section: 491.8 CSF-A (m)																												
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Description															
												Cryptocrystalline Cryptocrystalline to Microcrystalline Microcrystalline Fine grained Medium grained Alteration																
492.0	10	1		↑	MADC								<p>U1362A-21R-2 UNIT: 8 ROCK NAME: sparsely plagioclase clinopyroxene phyric microcrystalline basalt SUMMARY DESCRIPTION: sparsely plagioclase clinopyroxene phyric microcrystalline basalt sheet flow PIECES: 1 - 8 CONTACTS: Upper: not recovered Lower: not recovered COLOR: 7.5R 5/1 PHENOCRYSTS: (based on piece 5 of 21R-1)</p> <table border="1"> <thead> <tr> <th></th> <th>%</th> <th>Max</th> <th>Min</th> <th>Mode</th> </tr> </thead> <tbody> <tr> <td>Plagioclase</td> <td>1</td> <td>3.0</td> <td>0.2</td> <td>1.0</td> </tr> <tr> <td>Clinopyroxene</td> <td>2</td> <td>2.5</td> <td>0.2</td> <td>1.5</td> </tr> </tbody> </table> <p>GROUNDMASS: microcrystalline VESICLES: Sparsely vesicular. Vesicles filled with saponite, Feox, pyrite and celadonite ALTERATION: Moderately altered. Halos dark grey, dark grey with pink, dark grey with orange spots and layered dark green -brown VEINS: 0.1 – 0.8 mm saponite, clay and iron oxyhydroxides bearing veins. STRUCTURE: Fracture intensity(/m): 19.51 PHYSICAL PROPERTIES: 327-U1362A-21R-2-W 9/11 Bulk Density: 2.84 g/cm³ Porosity: 5.73 %</p>		%	Max	Min	Mode	Plagioclase	1	3.0	0.2	1.0	Clinopyroxene	2	2.5	0.2	1.5
	%	Max	Min	Mode																								
Plagioclase	1	3.0	0.2	1.0																								
Clinopyroxene	2	2.5	0.2	1.5																								
	20	2																										
	30	3		↑	ICP XRD			/																				
	40	4																										
	50	5		↑		8					S																	
	60	6		↑																								
	70	7		↑																								
492.5	80	8		↑	TS			/																				



Core Photo

Hole 327-U1362B-13 Section 1, Top of Section: 242.0 CSF-A (m)														
Depth (m)	Core length (cm)	Piece number	Scanned image	Orientation	Shipboard studies	Lith. unit	Veins	Structures	Structural measurements	Glass	Phenocrysts	Groundmass grain size	Alteration	Description
												- Cryptocrystalline - Cryptocrystalline to Microcrystalline - Microcrystalline - Fine grained - Medium grained		
242.0	0				MBIO									<p>327-U1362A-13-1</p> <p>BASALT: Chips recovered from drill bit. Plagioclase and clinopyroxene phyric, sparsely vesicular. Variable alteration - see alteration notes. One 3cm piece has a 5mm chilled margin - most likely from a pillow margin.</p> <p>ALTERATION: Variable alteration from slight to complete. Colors range from dark grey, pale green, red, yellow-brown, green coating. Fine grained sulfides in a grey fine grained matrix. 19 small mm chips have epidote crystals within basalt. White crystals (hardness greater than 6) also recovered, up to 5mm, some stained orange-red. Pieces with discernable vein material - often completely altered.</p> <p>GLASS: <1mm to mm sized glass fragments recovered. mixed occurrence - attached to basalt as a rind and also as disaggregated pieces.</p>
	10	1			TS									
		2												
	20	3												
		4												
		5												
	30	6												
		7												
	40	8												
242.5	50	9												
		10												
	60	11												
	70													
	80	12												
	90													

