sandy pebbly mud with aragonite crystals; serpentinite pebbly mud with aragonite crystals that disappear at about 1.87 m depth in the core
Site U1494 core descriptions

Hole 366-U1494A Core 2F, Interval 4.4-8.86 m (CSF-A)

greenish gray serpentinite pebbly mud with aragonite crystals in upper core, and brown serpentinite pebbly mud with foraminifers in lower section
**Site U1494 core descriptions**

**Site U1494 core descriptions**

**Visual core descriptions**

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Greenish gray to bluish gray serpentinite pebbly mud.

---

<table>
<thead>
<tr>
<th>Depth (mbsf)</th>
<th>Core length (cm)</th>
<th>Core image</th>
<th>Shipboard samples</th>
<th>Lith. unit</th>
<th>Clast &gt;2mm abundance (%)</th>
<th>Drilling disturbance</th>
<th>Reflectance</th>
<th>Natural gamma radiation (cps)</th>
<th>GRA bulk density (g/cm³)</th>
<th>Magnetic susceptibility WRMSL (SI)</th>
<th>Shear strength (kN/m²)</th>
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**Structures**

**Dominant**

- L^a^, L^b^

**Subdominant**

- ts

---

**Natural gamma radiation (cps)**

- 0.4
- 1.6
- 10.0
- 20.0
- 30.0
- 40.0
- 50.0
- 60.0
- 70.0
- 80.0
- 90.0
- 100.0

---

**GRA bulk density (g/cm³)**

- 3.00
- 2.50
- 2.00
- 1.50
- 1.00
- 0.50
- 0.10
- 0.00

---

**Magnetic susceptibility WRMSL (SI)**

- 1000
- 2000
- 3000
- 4000
- 5000
- 6000
- 7000
- 8000
- 9000
- 10000

---

**Shear strength (kN/m²)**

- 10.0
- 20.0
- 30.0
- 40.0
- 50.0
- 60.0
- 70.0
- 80.0
- 90.0
- 100.0

---

**Reflectance**

- L^a^, L^b^

---

**Lith. unit**

- Shipboard samples

---

**Core length (cm)**

- 100
- 200
- 300
- 400

---

**Core image**

- Greenish gray to bluish gray serpentinite pebbly mud

---

**Core description**

- Holes 366-U1494A Core 3F, Interval 9.1-13.25 m (CSF-A)

---

**Drilling disturbance**

- Site U1494 core descriptions

---

**Core description**

- Visual core descriptions

---

**Stratigraphy**

- Clast >2mm abundance

---

**Shear strength**

- (kN/m²)

---

**Core length**

- (cm)

---

**Depth**

- (mbsf)
### Site U1494 core descriptions

#### Hole 366-U1494A Core 4F, Interval 13.8-13.99 m (CSF-A)

Greenish gray serpentinite pebbly mud with ultramafic and sandstone lithic clasts

<table>
<thead>
<tr>
<th>Depth (mbsf)</th>
<th>Core length (cm)</th>
<th>Section</th>
<th>Core image</th>
<th>Shipboard samples</th>
<th>Lith. unit</th>
<th>Clast &gt;2mm abundance (%)</th>
<th>Dominant Structures</th>
<th>Type</th>
<th>Natural gamma radiation (cps)</th>
<th>GRA bulk density (g/cm³)</th>
<th>Magnetic susceptibility WRMSL (SI)</th>
<th>Magnetic susceptibility SHMSL (SI)</th>
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**Description:**
- **Clast >2mm abundance (%)**
- **Dominant Structures**
- **Type**
- **Natural gamma radiation (cps)**
- **GRA bulk density (g/cm³)**
- **Magnetic susceptibility WRMSL (SI)**
- **Magnetic susceptibility SHMSL (SI)**
- **Shear strength (kN/m²)**
Hole 366-U1494A Core 5F, Interval 18.5-23.19 m (CSF-A)

greenish gray to dark bluish gray serpentinite pebbly mud with brecciated ultramafic clasts with green serpentine veins. Dark bluish gray interval is highly contorted by drilling flow in; striped mix of pale green and blue green matrix with stretched former clasts (?) that are dark blue-black in color. Foliated gneissic texture. Matrix is mix of serpentinite mud with fine clastic material. Appears to be fallin of oxidized material from top of hole that slipped past bit and was sucked into cc.
bluish gray serpentinite pebbly mud with ultramafic lithic clasts that are highly contorted by drilling flow in; striped mix of pale green and blue green matrix with stretched former clasts (?) that are dark blue-black in color. Foliated gneissic texture. Matrix is a mixture of pale blue-green, pale blue, darker blue serpentinite mud. Highly contorted by drilling.
Hole 366-U1494A Core 7X, Interval 25.4-25.52 m (CSF-A)

Bluish gray serpentine pebbly mud with ultramafic lithic clasts that appears to be fall-in. Lithic clasts are ultramafic, some are red and oxidized. Minor remnants of blue-green serpentine mud stuck on some clasts.
greenish gray matrix-supported, polymict pebbly mud with lithic clasts. Highly distorted or destroyed by drilling disturbance, leaving some plastic core liner fragments in the mud. Big chunk of altered UM clast with serpentine veins experienced plastic deformation at about 28.5 m.
### GHOST CORE
Light greenish gray to dark bluish gray serpentinite pebbly mud with highly serpentinized ultramafic clasts. Highly destroyed by drilling disturbance - plastic deformation of the clasts.

### Hole 366-U1494A Core 9G, Interval 31.03-32.6 m (CSF-A)

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<th>Depth (mbsf)</th>
<th>Core length (cm)</th>
<th>Section</th>
<th>Core image</th>
<th>Shipboard samples</th>
<th>Graphic lithology</th>
<th>Lith. unit</th>
<th>Clast &gt;2mm abundance (%)</th>
<th>Reflectance</th>
<th>Drilling disturbance</th>
<th>Structures</th>
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- **MAD**: Major Abnormal Density
- **SED**: Secondary Abnormal Density
- **WP**: Weak Abnormal Density
- **XRF**: X-Ray Fluorescence
- **ICP**: Inductively Coupled Plasma
- **PMAG**: Paleomagnetic

**GRA**: Gamma Ray Absorptiometry

**MAD**: Magnetic Absorption

**SHMSL**: Susceptibility Higher than Magnetite Saturation Level

**Quality Assurance/Quality Control (QA/QC):**

- **CC**: Core Cutting
- **X**: Xylene-wetting
- **A, B**: Sample size
- **W**: Wet weight
- **D**: Dry weight
- **R**: Rock density
- **S**: Sediment density
- **M**: Moisture content
- **G**: Grain size
- **T**: Total.

Visual core descriptions:

- **Site U1494 core descriptions**
- **Lith. unit**
- **Shipboard samples**
- **Graphic lithology**
- **Core image**
- **Core length (cm)**
- **Depth (mbsf)**
- **Core**
- **Intensive**
- **Dominant**
- **Type**
- **Intensive**
- **Subdominant**
- **Type**
- **Clast >2mm abundance (%)**
- **Reflectance**
- **Drilling disturbance**
- **Structures**
- **Natural gamma radiation (cps)**
- **GRA bulk density (g/cm³)**
- **Magnetic susceptibility (SI)**
- **Shear strength (kN/m²)**
dark bluish gray serpentinite pebbly mud with heavily serpentinized lithic clasts. Highly destroyed by flow-in drilling disturbance.
Hole 366-U1494A Core 11X, Interval 34.9-35.73 m (CSF-A)

dark bluish gray serpentinite pebbly mud with heavily serpentinized lithic clasts. Highly destroyed by drilling disturbance