Date 9/1/04
Driller Direct Push
Drilling Method Direct Push
Sampler Clear Liners
Hammer Weight NA **Drop** NA
Logged by **Datum**
Surface Elevation 463.82 **Hole Dia.** 1.75 in.
Northing 505313.451 **Easting** 1237342.372

Well Construction Details

Top of PVC Casing Elev. **465.87 ft.**

GROUND SURFACE

1.75" DIA. BOREHOLE: 0 to 38 ft.

BENTONITE-CEMENT SEAL: 0 to 21.2 ft.

3/4" DIA SCHED. 40 PVC CASING: +2.7 to 23.2 ft.

PRE-FABRICATED BENTONITE SEAL: 21.2 to 23.2 ft.

PRE-FABRICATED FILTER PACK: 23.2 to 33.2 ft.

PRE-FABRICATED 3/4" DIA. SLOTTED PIPE: 23.2 to 33.2 ft.

BOTTOM WELL CAP: 33.2 ft.

Well casing installed to 33.2 ft.

Depth (ft.)	Recovery (inches)	PID Reading (ppm)	Sample
0		0	
	27		
		0	
5			
	48		
		0	
10	48		
		0	
	30		
		0	
15	30		
		0	
	36		
20		0	
	36		
		0	
	36		
25		0	
	36		
		0	
30	36		
	12	0	
35		0	

Pale Yellow Clayey Gravel with Sand (GC) (2.5Y 7/4) Very dense, dry, 60% siltstone/claystone gravel, 25% dark grayish brown (10YR 4/2) clay, 15% sand (Fill)

Light Yellowish Brown Weathered Mudstone (2.5Y 6/4) Intensely fractured, low hardness, friable, deeply weathered to Brownish Yellow (10YR 6/8), iron oxide staining

@ 8.5 ft.: Iron oxide staining occurs only within veining. Some vertical fracturing and void in-filling

@13 to 14 ft.: Very poorly consolidated

@ 16.7 ft.: 3-inch sandy zone

@17 ft.: Horizontal fine-grained platey fracture. Some liesegang banding.

@19.8 ft.: 3-inch sandy zone

@20.1 ft.: Increase in consolidation. Horizontal and 45° fractures with white mineral in-filling

@22 ft.: Iron oxide mottling

@23 ft.: Horizontal fractures with iron oxide and white mineral in-filling

@23.5 ft.: 45°, 90°, and horizontal fractures

@24 ft.: Sandy Claystone

@25.5 ft.: Dry, sheared, some iron oxide and white oxides along irregular cracks

@27 ft.: Increase in consolidation. Vertical iron oxide coated cracks

@29 ft.: Unconsolidated, sheared, pulverized dry material

@31 ft.: Change to Olive (5Y 5/3)

@32 ft.: Change to Olive Gray (5Y 5/2). Unidentified product odor

BORING_WELL2 CASMALIARIFS.GPJ GEOL.GDT 12/13/10

Well Construction Details and Log of Boring RIPZ-07

Final Remedial Investigation Report
Casmalia Resources Superfund Site
Casmalia, California

PLATE

E9-16

DRAWN	JOB NUMBER	CHECKED	CHCK'D DATE	APPROVED	APPRV'D DATE
WJF	4088097619	WJF	1/11	WBC	1/11

Well Construction Details	Recovery (inches)	PID Reading (ppm)	Depth (ft.)	Sample
BGS	9		35	
		0		
	15			

Date 9/1/04
Driller Direct Push
Drilling Method Direct Push
Sampler Clear Liners
Hammer Weight NA **Drop** NA
Logged by **Datum**
Surface Elevation 463.82 **Hole Dia.** 1.75 in.
Northing 505313.451 **Easting** 1237342.372

Refusal at 38 feet.

BORING_WELL2 CASMALIARIFS.GPJ GEOL.GDT 12/13/10

Well Construction Details and Log of Boring RIPZ-07

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Casmalia Resources Superfund Site
Casmalia, California

PLATE

E9-16

DRAWN	JOB NUMBER	CHECKED	CHCK'D DATE	APPROVED	APPRV'D DATE
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