

**Details of Summarized Lithologs for All Auger Boreholes Drilled in the
Sumarasar Area, Kachchh District, Gujarat**

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_1	0.00	0.80	0.80	Yellow sandy soil
	0.80	1.30	0.50	WhitishYellow sandy soil
	1.30	2.00	0.70	WhitishYellow sandy soil
	2.00	2.50	0.50	Ferruginous sandy soil
	2.50	3.00	0.50	Ferruginous sandy soil
	3.00	4.00	1.00	Ferruginous sandy soil
	4.00	4.50	0.50	Ferruginous sandy soil
	4.50	5.00	0.50	Whitish ferruginous sandy soil
	5.00	5.50	0.50	Whitish ferruginous sandy soil
	5.50	6.00	0.50	Whitish ferruginous sandy soil
SMA_2	0.00	1.50	1.50	Yellow sandy soil
	1.50	1.90	0.40	Greyish yellow shale
	1.90	3.00	1.10	Greyish yellow shale
	3.00	3.50	0.50	Greyish yellow shale
	3.50	3.80	0.30	Greyish yellow shale
	3.80	4.50	0.70	Greyish yellow shale
	4.50	6.00	1.50	Greyish yellow shale
SMA_3	0.00	0.50	0.50	Ferruginous Yellow Soil
	0.50	1.00	0.50	Ferruginous Yellow Soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.00	0.50	Ferruginous Yellow Soil
	2.00	2.40	0.40	Ferruginous Yellow Soil
	2.40	3.00	0.60	Ferruginous Yellow Soil
	3.00	3.30	0.30	Greyish yellow sandy soil
	3.30	3.90	0.60	Greyish yellow sandy soil
	3.90	4.50	0.60	Grey shale
	4.50	5.50	1.00	Grey shale
	5.50	6.00	0.50	Grey shale
SMA_4	0.00	0.50	0.50	Yellow sandy soil
	0.50	1.50	1.00	Yellow sandy soil with Ferruginized Shale
	1.50	2.00	0.50	Grey shale
	2.00	2.50	0.50	Yellow sandy soil with Ferruginized Shale
	2.50	3.00	0.50	Grey shale with Ferruginized shale
	3.00	4.00	1.00	Grey shale with Ferruginized shale
	4.00	4.50	0.50	Grey shale with Ferruginized shale
	4.50	5.00	0.50	Grey shale
	5.00	6.00	1.00	Grey shale
	6.00	7.00	1.00	Grey shale
SMA_5	0.00	2.50	2.50	Yellow sandy soil
	2.50	4.00	1.50	Red colour sandy soil
	4.00	4.50	0.50	Red colour sandy soil
	4.50	5.50	1.00	Red colour sandy soil
	5.50	6.00	0.50	Red colour sandy soil
	6.00	7.00	1.00	Grey shale

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_6	0.00	1.00	1.00	Ferruginous sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellowish Gray shale
	2.50	3.00	0.50	Yellowish Gray shale
	3.00	4.00	1.00	Yellowish Gray shale
	4.00	4.50	0.50	Yellowish Gray shale
	4.50	5.50	1.00	Yellowish Gray shale
SMA_7	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Gray shale
	1.50	2.50	1.00	Gray shale
	2.50	3.00	0.50	Gray shale
	3.00	4.00	1.00	Gray shale
	4.00	4.50	0.50	Gray shale
	4.50	6.00	1.50	Gray shale
SMA_8	0.00	1.00	1.00	Yellow sandy shale
	1.00	1.50	0.50	Yellow sandy shale
	1.50	2.50	1.00	Yellow sandy shale
	2.50	3.00	0.50	Yellow sandy shale
	3.00	4.50	1.50	Yellow sandy shale
	4.50	6.00	1.50	Greyish yellow sandy shale
SMA_9	0.00	1.00	1.00	Yellow sandy shale
	1.00	1.50	0.50	Yellow sandy shale
	1.50	2.50	1.00	Yellow sandy shale
	2.50	3.00	0.50	Yellow sandy shale
	3.00	4.50	1.50	Yellow sandy shale
	4.50	6.00	1.50	Greyish yellow sandy shale
	6.00	7.00	1.00	Greyish yellow sandy shale
SMA_10	0.00	0.50	0.50	Yellow sandy shale
	0.50	1.00	0.50	Yellow sandy shale
	1.00	1.50	0.50	Yellow sandy shale
	1.50	2.50	1.00	Yellow sandy shale
	2.50	3.00	0.50	Ferruginized Shale
	3.00	3.50	0.50	Grey shale
	3.50	5.50	2.00	Grey shale
	5.50	6.00	0.50	Grey shale
SMA_11	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.50	0.50	Greyish yellow sandy shale
	4.50	5.50	1.00	Greyish yellow sandy shale
	5.50	6.00	0.50	Greyish yellow sandy shale

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_12	0.00	0.50	0.50	Pink sandy soil
	0.50	1.00	0.50	Pink sandy soil
	1.00	1.50	0.50	Whitish Yellow sandy soil
	1.50	2.00	0.50	Whitish Yellow sandy soil
	2.00	3.00	1.00	Whitish Yellow sandy soil
	3.00	4.50	1.50	Ferruginized Shale
	4.50	5.00	0.50	Ferruginized Shale
	5.00	6.00	1.00	Ferruginized Shale
SMA_13	0.00	1.00	1.00	Black Shale
	1.00	1.50	0.50	Black Shale
	1.50	2.50	1.00	Black Shale
	2.50	3.00	0.50	Black Shale
	3.00	4.00	1.00	Black Shale
	4.00	4.50	0.50	Black Shale
	4.50	5.50	1.00	Black Shale
	5.50	6.00	0.50	Black Shale
SMA_14	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.00	0.50	Yellow sandy soil
	2.00	3.00	1.00	Ferruginized Shale
	3.00	3.50	0.50	Ferruginized Shale
	3.50	4.50	1.00	Reddish grey colour soil
	4.50	5.50	1.00	Reddish grey colour soil
	5.50	6.00	0.50	Reddish grey colour soil
SMA_15	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Greyish Yellow sandy shale
	1.50	3.00	1.50	Greyish Yellow sandy shale
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.50	0.50	Yellow sandy soil
	4.50	5.30	0.80	Yellow sandy soil
	5.30	6.00	0.70	Greyish Yellow shale
	6.00	7.00	1.00	Greyish Yellow shale
SMA_16	0.00	1.00	1.00	Gray shale
	1.00	1.50	0.50	Gray shale
	1.50	3.00	1.50	Greyish Yellow shale
	3.00	4.50	1.50	Gray shale
	4.50	6.00	1.50	Gray shale
	6.00	7.00	1.00	Gray shale
SMA_17	0.00	1.50	1.50	Reddish brown sandy soil
	1.50	2.00	0.50	Reddish brown sandy soil
	2.00	3.00	1.00	Reddish brown sandy soil

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_18	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	3.50	0.50	Yellow sandy soil
	3.50	4.00	0.50	Yellow sandy soil
	4.00	4.50	0.50	Yellow sandy soil
	4.50	5.50	1.00	Yellow sandy soil
	5.50	6.00	0.50	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_19	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.30	0.80	Yellow sandy soil
	2.30	3.00	0.70	Yellow sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.30	0.30	Yellow sandy soil
	4.30	5.30	1.00	Yellow sandy soil
	5.30	6.00	0.70	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_20	0.00	1.50	1.50	Yellow sandy soil
	1.50	3.00	1.50	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	6.00	1.50	Yellow sandy soil
SMA_21	0.00	1.50	1.50	Yellow sandy soil
	1.50	3.00	1.50	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	6.00	1.50	Yellow sandy soil
	6.00	7.00	1.00	Greyish Yellow sandy soil
SMA_22	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Greyish Yellow sandy soil
	1.50	2.50	1.00	Greyish Yellow sandy soil
	2.50	3.00	0.50	Greyish Yellow sandy soil
	3.00	4.00	1.00	Grey Shale
	4.00	4.50	0.50	Grey Shale
	4.50	5.50	1.00	Grey Shale
	5.50	6.00	0.50	Grey Shale
	6.00	7.00	1.00	Grey Shale
SMA_23	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.00	1.00	Grey shale
	4.00	5.50	1.50	Grey shale
	5.50	6.00	0.50	Grey shale
	6.00	7.00	1.00	Grey shale

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_24	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.00	0.50	Greyish yellow sandy soil
	2.00	2.50	0.50	Pinkish yellow sandy soil
	2.50	3.00	0.50	yellow sandy soil
	3.00	4.50	1.50	Greyish yellow sandy soil
	4.50	6.00	1.50	Greyish yellow sandy soil
	6.00	7.00	1.00	Greyish yellow sandy soil
SMA_25	0.00	1.50	1.50	Greyish yellow sandy soil
	1.50	2.00	0.50	Greyish yellow sandy soil
	2.00	2.50	0.50	Grey shale with Ferruginized shale
	2.50	3.00	0.50	Gray shale
	3.00	4.00	1.00	Gray shale
	4.00	4.50	0.50	Gray shale
	4.50	6.00	1.50	Gray shale
SMA_26	0.00	1.50	1.50	Black Shale
	1.50	2.00	0.50	Black Shale
	2.00	3.00	1.00	Black Shale
	3.00	3.30	0.30	Black Shale
	3.30	4.50	1.20	Black Shale
SMA_27	0.00	1.00	1.00	Grayish black shale
	1.00	1.50	0.50	Grayish black shale
	1.50	2.50	1.00	Grayish black shale
	2.50	4.00	1.50	Pink sandy soil
	4.00	5.50	1.50	Pink sandy soil
	5.50	6.00	0.50	Pink sandy soil
	6.00	7.00	1.00	Pink sandy soil
SMA_28	0.00	1.00	1.00	Grayish black shale
	1.00	2.50	1.50	Grayish black shale
	2.50	3.00	0.50	Grayish black shale
	3.00	4.00	1.00	Grayish black shale
	4.00	4.50	0.50	Grayish black shale
	4.50	6.00	1.50	Grayish black shale
	6.00	7.00	1.00	Grayish black shale
SMA_29	0.00	1.00	1.00	Ferruginized Shale
	1.00	1.50	0.50	Ferruginized Shale
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	5.50	1.00	Yellow sandy soil
	5.50	6.00	0.50	Yellow sandy soil
	6.00	7.00	1.00	Yellowish grey soil

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_30	0.00	0.50	0.50	Reddish brown sandy soil
	0.50	1.50	1.00	Yellow sandy soil
	1.50	2.10	0.60	Pink sandy soil
	2.10	3.00	0.90	Pink sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.50	0.50	Pink sandy soil
	4.50	6.00	1.50	Pinkish yellow sandy soil
	6.00	6.10	0.10	Pinkish yellow sandy soil
	6.10	7.00	0.90	Pinkish yellow sandy soil
SMA_31	0.00	1.50	1.50	Yellow sandy soil
	1.50	3.00	1.50	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	6.00	1.50	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_32	0.00	1.00	1.00	Pink sandy soil
	1.00	1.50	0.50	Pink sandy soil
	1.50	2.50	1.00	Pink sandy soil
	2.50	3.00	0.50	Pink sandy soil
SMA_33	0.00	0.20	0.20	Yellow sandy soil
	0.20	0.40	0.20	Yellow sandy soil
	0.40	1.50	1.10	Pink sandy soil
	1.50	1.60	0.10	Gray shale
	1.60	3.00	1.40	Gray shale
	3.00	4.00	1.00	Reddish grey colour soil
	4.00	5.00	1.00	Yellow sandy soil
	5.00	5.50	0.50	Yellow sandy soil
SMA_34	0.00	1.50	1.50	Whitish sandy soil(altered sst)
	1.50	2.00	0.50	Whitish sandy soil(altered sst)
	2.00	2.50	0.50	Whitish sandy soil(altered sst)
	2.50	3.00	0.50	Whitish sandy soil(altered sst)
	3.00	3.50	0.50	Whitish sandy soil(altered sst)
	3.50	4.50	1.00	Whitish sandy soil(altered sst)
	4.50	5.50	1.00	Whitish sandy soil(altered sst)
	5.50	6.00	0.50	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_35	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
SMA_36	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.50	0.50	Yellow sandy soil
	4.50	5.50	1.00	Yellow sandy soil
	5.50	6.00	0.50	Yellow sandy soil

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_37	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.30	0.30	Yellow sandy soil
SMA_38	0.00	1.00	1.00	Yellow sandy soil
	1.00	1.50	0.50	Ferruginous sandy soil
	1.50	2.50	1.00	Whitish sandy soil(altered sst)
	2.50	3.00	0.50	Ferruginous sandy soil
	3.00	3.10	0.10	Ferruginous sandy soil
	3.10	3.20	0.10	Ferruginous sandy soil
	3.20	3.50	0.30	Ferruginous sandy soil
	3.50	5.00	1.50	Ferruginous sandy soil
	5.00	5.50	0.50	Ferruginous sandy soil
SMA_39	0.00	0.50	0.50	Reddish brown sandy soil
	0.50	0.90	0.40	Reddish brown sandy soil
	0.90	1.20	0.30	Reddish brown sandy soil
	1.20	1.50	0.30	Reddish brown sandy soil
	1.50	2.00	0.50	Reddish brown sandy soil
	2.00	3.00	1.00	Reddish brown sandy soil
SMA_40	0.00	0.50	0.50	Pink sandy soil
	0.50	1.50	1.00	Pink sandy soil
	1.50	2.00	0.50	Pink sandy soil
	2.00	3.00	1.00	Pink sandy soil
	3.00	3.70	0.70	Pink sandy soil
	3.70	4.50	0.80	Pink sandy soil
	4.50	6.00	1.50	Pink sandy soil
	6.00	7.00	1.00	Pink sandy soil
SMA_41	0.00	1.50	1.50	Ferruginous sandy soil
	1.50	2.00	0.50	Ferruginous sandy soil
	2.00	3.00	1.00	Yellow sandy soil
	3.00	3.40	0.40	Greyish yellow sandy soil
SMA_42	0.00	0.50	0.50	Yellow sandy soil
	0.50	1.00	0.50	Yellow sandy soil
	1.00	1.50	0.50	Ferruginous sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	2.80	0.30	Yellow sandy soil
SMA_43	0.00	1.00	1.00	Yellow sandy soil
SMA_44	0.00	0.50	0.50	Yellow sandy soil
	0.50	1.50	1.00	Yellow sandy soil
	1.50	3.00	1.50	Yellow sandy soil

BH No.	Depth In Meters			Lithology
	From	To	Thickness	
SMA_45	0.00	0.20	0.20	Yellow sandy soil
	0.20	1.50	1.30	Yellow sandy soil
	1.50	2.00	0.50	Yellow sandy soil
	2.00	3.00	1.00	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	6.00	1.50	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_46	0.00	1.50	1.50	Yellow sandy soil
	1.50	3.00	1.50	Yellow sandy soil
	3.00	4.50	1.50	Yellow sandy soil
	4.50	6.00	1.50	Yellow sandy soil
	6.00	7.00	1.00	Yellow sandy soil
SMA_47	0.00	1.00	1.00	Ferruginous sandy soil
	1.00	1.50	0.50	Yellow sandy soil
	1.50	2.50	1.00	Yellow sandy soil
	2.50	3.00	0.50	Yellow sandy soil
	3.00	4.00	1.00	Yellow sandy soil
	4.00	4.50	0.50	Yellow sandy soil
	4.50	5.00	0.50	Ferruginous sandy soil