

UN 000112

Volume 2

SUBSURFACE EXPLORATION & LABORATORY TESTING

Plant Site

Waste Isolation Pilot Plant

Bechtel Job No. 12484

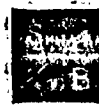
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|---------------|---------------------|----------|------|
| JOB NO. 12484 | | | |
| VP NO. | M/R OR CONTRACT NO. | SEQ. NO. | REV. |
| | 21-B-02 | 3 | 1 |

SF-5

SI Job No. E78-1135

UN 000112



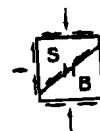
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VOLUME 2

| JOB NO. 12484 | | | |
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| VP NO. | M/R OR CONTRACT NO. | SEQ. NO. | REV. |
| | 21-B-02 | 3 | 1 |

SF-5

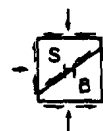


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Section 4

Visual Soil Classification

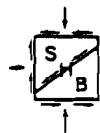


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Plant Site
Waste Isolation Pilot Plant
Bechtel Job No. 12484
Subsurface Exploration & Laboratory Testing
SHB Job No. E78-1135

The visual soil classifications reported herein were performed in accordance with ASTM D2488-69(1975), Description of Soils (Visual-Manual Procedure).



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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-1

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|----------|-------------|--|
| BL-1 | 0-9' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-4 | 6'-7'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-5 | 8'6"-10' | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| | | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-2

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|----------------------|-----------|-------------|---|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-5'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-4 | 9'-10'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink, |
| S-5 | 14'-15'6" | SM-SC | SILTY SAND, predominantly fine, some clay, some gravel, sub-rounded, some calcareous cementation, low plasticity to nonplastic, pink to white |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-3

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| BL-1 | 0-7'10" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'6"-6' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 7'10"-8'9" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-4 | 13'-14'6" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-4

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| P-1 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 5'-6'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 8'5"-9'11" | SM | SILTY SAND, predominantly fine, sub-rounded, calcareous cementation, nonplastic, light tan |
| S-4 | 14'6"-16' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, pink |
| S-5 | 19'6"-21' | SM | SILTY SAND, predominantly fine, trace of gravel, subangular, some calcarous cementation, nonplastic, pink |
| P-3 | 21'6"-22' | | Weathered SANDSTONE forming silty to clayey sand, predominantly medium to fine grained, low plasticity, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-5

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BL-1 | 0'-8' | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, brown |
| S-2 | 4'6"-6' | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, trace of calcareous cementation, low plasticity, reddish brown |
| S-3 | 8'2"-9'10" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-4 | 14'6"-16' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, trace of calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-6

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BL-1 | 0'-4' | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-4'4½" | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-3 | 9'3"-10'9" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-7

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, dark reddish brown |
| S-2 | 4'-4'11½" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, low plasticity, brown to light tan |
| S-3 | 9'-10'6" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, low plasticity, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-8

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|---------|-------------|--|
| BL-1 | 0-6' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SP-SM | SAND, some silt, predominantly fine, subrounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| | | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-9

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| BL-1 | 0'-4' | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP | SAND, trace of silt, sub-rounded, nonplastic, reddish brown |
| S-2 | 5'-6'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, dark reddish brown |
| S-3 | 14'-15'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-10

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------------|-------------|--|
| BL-1 | 0'-6' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'6"-6' | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, tan |
| S-3 | 9'6"-11' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| | | SM | SILTY SAND, predominantly fine, sub-rounded, some calcareous cementation, nonplastic, light tan |
| S-4 | 14'-15'5½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink |
| S-5 | 15' 11½"-17' 3" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink |
| S-6 | 17'9"-18' 2½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink. |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-11

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|----------------------|-----------|-------------|--|
| S-1 | 1'-2'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-2 | 4'6"-5'2" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-3 | 9'-10'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-12

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| P-2 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 5'-6'6" | SM-SC | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, light tan |
| | | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, gray |
| S-5 | 9'-10'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, light tan |
| S-6 | 14'-15'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, trace of calcareous cementation, nonplastic, pink |
| S-7 | 19'-20'6" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-angular, trace of calcarous cementation, low plasticity, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-13

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BL-3 | 0-7' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| P-1 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 5'-6'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-3 | 6'10"-7'8" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, heavy calcareous cementation, nonplastic, light tan |
| S-4 | 9'-10'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-14

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| S-1 | 1'-2'6" | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'6"-5'5½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
| S-3 | 9'8"-10'8" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-15

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 5'6"-7' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, brown |
| S-5 | 10'-10'2" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, low plasticity, tan |
| S-6 | 14'-15'6" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, low plasticity, pink |
| S-7 | 19'-19'11½" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-12 | 39'-39'1½" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-16

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|----------------------|-----------|-------------|---|
| S-1 | 1'-2'6" | SP | SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| P-1 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 9'6"-11' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, light tan |
| S-3 | 14'6"-16' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-17

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|--------------|-------------|--|
| BL-1 | 0-4' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-5'6" | SP-SM | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| | | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| | | SM | SILTY SAND, predominantly fine, sub-rounded, some calcareous cementation, nonplastic, brown to pink |
| S-3 | 10'6"-10'10" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, some calcareous cementation, nonplastic, pink to white |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-18

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| BL-1 | 0-3' | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'6"-6' | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-3 | 7'3"-8'7" | SM | SILTY SAND, predominantly fine, sub-rounded, some calcareous cementation, nonplastic, light tan |
| S-4 | 9'6"-9'10" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-5 | 10'8"-11' | SM | SILTY SAND, predominantly fine, some gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
| S-6 | 12'6"-14' | SM | SILTY SAND, predominantly fine, some gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-19

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-5'6" | SM-SC | SILTY SAND, predominantly fine, some clay, sub-rounded, low plasticity to nonplastic, brown to gray |
| S-3 | 9'-9'11" | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-5 | 19'-20'5" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, trace of calareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-20

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| BL-1 | 0-3' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 9'-10'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| | | SM | SILTY SAND, predominantly fine, sub-rounded, some calcareous cementation, nonplastic, pink |
| S-3 | 14'-14'1" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink |
| P-1 | 3'-5' | SP | SAND, predominantly fine, sub-rounded, nonplastic, brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-21

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-5'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, brown |
| S-3 | 8'-8'8" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
| S-4 | 14'-15'6" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, low plasticity, pink |
| S-5 | 19'-20'5" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, trace of calcareous cementation, nonplastic, reddish brown |
| S-6 | 24'-25'5½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, trace of calcareous cementation, nonplastic, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-22

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| BL-1 | 0-3' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, trace of clay, subrounded, nonplastic, reddish brown |
| P-1 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 5'2"-6'8" | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-3 | 7'6"-7'8" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, calcareous cementation, nonplastic, tan |
| S-4 | 9'5"-9'7" | DM | SILTY SAND, predominantly fine, some gravel, sub-angular, calcareous cementation, nonplastic, light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-23

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, predominantly fine, some silt, sub-rounded, nonplastic, reddish brown |
| P-2 | 3'-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 5'-6'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| | | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, calcareous cementation, low plasticity, pink |
| S-5 | 9'-9'11" | SC | CLAYEY SAND, predominantly fine, some gravel, sub-angular, calcareous cementation, low plasticity, white to pink |
| S-6 | 10'-10'11½" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, low plasticity, pink |
| S-7 | 14'3"-15'9" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pink |
| S-8 | 19'3"-20'9" | SM | SILTY SAND, predominantly fine, trace of gravel, subrounded, nonplastic, reddish brown |
| S-9 | 24'3"-25'5" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-rounded, low plasticity, reddish brown |

VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-24

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| S-1 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 5'-6'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, some calcareous cementation, low plasticity, light tan |
| S-5 | 9'-9'5" | SC | CLAYEY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, low plasticity, pink |
| S-6 | 14'-14'5½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, nonplastic, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-26

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| BL-1 | 0-3' | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SC-SM | SILTY SAND, with clay, predominantly fine, sub-rounded, low plasticity, reddish brown |
| P-4 | 5'-5'4" | SM | SILTY SAND, fine to medium, trace of gravel, sub-angular, some calcareous cementation, nonplastic, tan |
| S-5 | 6'6"-6'10½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, pinkish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-27

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| BL-1 | 3'-4' | SC | CLAYEY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'4"-5'9" | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-28

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'6"-7'4" | SM | SILTY SAND, predominantly fine, sub-rounded, some calcareous cementation, nonplastic, tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-29

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|---|
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-5 | 8'6"-8'9" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, nonplastic, gray |
| S-6 | 10'6"-11'6" | SM-SC | SILTY SAND, predominantly fine, some clay, trace of gravel, sub-angular, low plasticity to nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-30

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|---------|-------------|---|
| BL-1 | 0-4' | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 2'6"-4' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 4'6"-6' | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-31

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'-4'6" | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SC | CLAYEY SAND, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-5 | 8'6"-10' | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, calcareous cementation, nonplastic, pink |
| P-6 | 10'6"-10'8" | SM | SILTY SAND, predominantly fine, some gravel, sub-angular, calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-32

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown to gray |
| S-5 | 8'6"-10' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, nonplastic, brown to gray |
| S-6 | 11'-12'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, gray |
| S-9 | 19'-19'10" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink to white |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-33

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| BL-1 | 0-6' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SC | CLAYEY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| | | SC | CLAYEY SAND, predominantly fine, sub-angular, calcareous cementation, low plasticity, brown to light tan |
| P-7 | 10'1"-10'7" | SM | SILTY SAND, predominantly fine, some calcareous cementation, white to reddish brown |
| S-8 | 14'6"-16' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, nonplastic, pink to light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-34

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|---|
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 6'-7'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-5 | 8'6"-10 | SM | SILTY SAND, predominantly fine, trace of clay, sub-angular, trace of calcareous cementation, nonplastic, reddish brown to light tan |
| P-7 | 12'4"-14'4" | Caliche | CALICHE, very weathered, intensely fractured, moderately hard |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-35

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|--|
| BL-1 | 0-5' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 3'6"-5' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, brown |
| S-4 | 6'-7'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, nonplastic, pinkish brown |
| P-7 | 11'-11'8" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-36

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|--------------|-------------|--|
| BL-1 | 0-3'6" | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'6"-6' | SC | SANDY CLAY, predominantly fine, sub-rounded, trace of calcareous cementation, low plasticity, reddish brown to light tan |
| S-4 | 6'-6'2½" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-5 | 8'11"-10'5" | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-6 | 13'2"-14'10" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink to light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-37

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|---|
| BL-1 | 0-3' | SP-SM | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'6"-6' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| | | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, some calcareous cementation, nonplastic, light pink |
| S-4 | 9'6"-11' | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light pink |
| P-8 | 15'9"-16'9" | Sandstone | SANDSTONE, very weathered, intensely fractured, soft, some calcareous cementation |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-37A

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| BL-1 | 0-3' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'2"-5'8" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| | | SM | SILTY SAND, predominantly fine, some calcareous cementation, sub-angular, nonplastic, tan |
| S-4 | 9'2"-9'8" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, light tan |
| S-5 | 14'2"-15'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-rounded, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-38

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|--|
| BL-1 | 0-3'6" | SP | SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'3"-5'9" | SM | SILTY SAND, predominantly fine, sub-angular, some calcareous cementation, nonplastic, pink |
| S-4 | 9'4"-10'10" | SM | SILTY SAND, predominantly fine, trace of gravel, some calcareous cementation, sub-angular, nonplastic, tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-39

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| BL-1 | 0-7' | SP | SAND, trace of silt, predominantly fine, sub-rounded, nonplastic, reddish brown, |
| S-2 | 1'-2'6" | SP-SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, brown |
| S-3 | 4'6"-6' | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, brown |
| S-4 | 7'-7'10" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, non-plastic, tan |
| P-5 | 8'-8'7" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, tan |
| S-6 | 12'-13'6" | SM | SILTY SAND, predominantly fine, trace of gravel, subangular, some calcareous cementation, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-40

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|---|
| BL-1 | 0-4' | SP | SAND, some silt, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 1'-2'6" | SP-SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 4'6"-6' | SM | SILTY SAND, some clay, predominantly fine, sub-rounded, low plasticity, reddish brown |
| S-4 | 7'7"-9'1" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-5 | 9'1"-9'11" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, nonplastic, pink |
| S-6 | 14'2"-15'6" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, nonplastic, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-47

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|---|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 3'6"-5' | SM-SC | SILTY SAND, with clay, predominantly fine, sub-rounded, nonplastic to low plasticity, reddish brown |
| S-3 | 6'-7'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 8'6"-9'5" | SM | SILTY SAND, predominantly fine, trace of gravel, sub-angular, some calcareous cementation, nonplastic, reddish brown to light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-49

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|---------|-------------|---|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 3'6"-5' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-3 | 6'-7'6" | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-50

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 3'6"-5' | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown |
| S-3 | 6'-7'6" | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 8'6"-9'11" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, some calcareous cementation, nonplastic, reddish brown to white |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-51

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-------------|-------------|---|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 4'-5'6" | SM | SILTY SAND, predominantly fine, trace of clay, sub-rounded, nonplastic, reddish brown to gray |
| P-4 | 9'10"-10'7" | Caliche | CALICHE, very weathered, intensely fractured, moderately hard |
| P-7 | 12'6"-13'2" | Caliche | CALICHE, very weathered, intensely fractured, moderately hard |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-52

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|-----------|-------------|--|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-2 | 3'1"-3'5" | SM | SILTY SAND, predominantly fine, sub-angular, heavy calcareous cementation, nonplastic, light tan |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. B-53

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|--------------|-------------|--|
| S-1 | 1'-2'6" | SM | SILTY SAND, predominantly fine, sub-rounded, nonplastic, reddish brown |
| S-3 | 5'6"-7' | SM | SILTY SAND, predominantly fine, some clay, sub-rounded, nonplastic, reddish brown |
| S-4 | 8'-9'5" | SM | SILTY SAND, predominantly fine, sub-angular, heavy calcareous cementation, nonplastic, light tan |
| P-11 | 18'10"-20'2" | Sandstone | SANDSTONE, weakly cemented, very weathered, moderately hard, pink (unable to determine fracture and bedding in laboratory) |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. TP-1

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BLK | Surface | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 1 | 3.0-3.5' | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 2 | 8.6-9.1 | Caliche | CALICHE, very weathered, intensely fractured, moderately hard, light tan |
| BLK 3 | 12.7-14.2' | Caliche | CALICHE, very weathered moderately hard, intensely fractured, heavy calcareous cementation, pink to light tan |
| BLK 4 | 21.0-21.5' | Sandstone | SANDSTONE, very weathered, moderately hard, intensely fractured, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. TP-2

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BLK | Surface | SM | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 1 | 3.0-3.5' | SM | SILTY SAND, predominantly fine, subrounded, nonplastic, reddish brown |
| BLK 2 | 5.5-6.0' | Caliche | CALICHE, very weathered, intensely fractured, laminated, moderately hard, pink to light tan |
| BLK 3 | 11.0-11.5' | Sandstone | SANDSTONE, very weathered, moderately hard, intensely fractured, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. TP-3

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| BLK | Surface | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 1 | 3.2-3.7' | SM | SILTY SAND, predominantly fine, trace of clay, subrounded, nonplastic, reddish brown |
| BLK 2 | 5.5-6.0' | SM | SILTY SAND, predominantly fine, some gravel, (caliche), subangular, some calcareous cementation, nonplastic, light tan |
| BLK 3 | 6.0-6.5' | Caliche | CALICHE, very weathered intensely fractured, moderately hard, light tan |
| BLK 4 | 9.2-9.7 | SM | SILTY SAND, predominantly fine, some gravel, subangular, heavy calcareous cementation, nonplastic, light tan |
| BLK 5 | 8.5-9.0' | SM | SILTY SAND, predominantly fine, trace of gravel, subangular, some calcareous cementation, nonplastic, pink |
| BLK 6 | 16.2-16.7' | Sandstone | SANDSTONE, very weathered, intensely fractured, moderately hard, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. TP-4

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|--|
| BLK 1 | 3.0-3.5' | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 2 | 7.5-8.0' | SM | SILTY SAND, predominantly fine, subrounded, trace of calcareous cementation, tan |
| BLK 3 | 13.5-14.0' | Caliche | CALICHE, very weathered, intensely fractured, moderately hard, light tan |
| BLK 4 | 29.5-30.1' | Sandstone | SANDSTONE, very weathered, intensely fractured, moderately hard, pink |
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VISUAL SOIL CLASSIFICATION DATA SHEET (Laboratory)

SHB Job No. E78-1135

Boring No. TP-5

| SAMPLE TYPE & NO. | DEPTH | U.S. CLASS. | DESCRIPTION |
|-------------------|------------|-------------|---|
| BLK | Surface | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 1 | 3.5-4.0' | SP | SAND, predominantly fine, trace of silt, subrounded, nonplastic, reddish brown |
| BLK 2 | 10.6-11.1' | SM | SILTY SAND, predominantly fine, some gravel, subangular, some calcareous cementation, nonplastic, light tan to pink |
| BLK 3 | 9.9-10.4 | Caliche | CALICHE, very weathered, intensely fractured, moderately hard, light tan |
| BLK 4 | 13.9-14.4' | SM | SILTY SAND, predominantly fine, trace of gravel, subangular, heavy calcareous cementation, nonplastic, light tan |
| BLK 5 | 20.9-21.4' | Sandstone | SANDSTONE, very weathered, intensely fractured, moderately hard, reddish brown |
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