

TECHNICAL MEMORANDUM

Geotechnical Exploration
Preliminary Roadway Design
Masonite Road, Ukiah, California

Date: March 8, 2018
Project No.: 7583.14

Prepared For: Friends of Liberty, LLC

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Attachments: Figures:

Figure 1 – Site Vicinity Map
Figure 2 – Site Plan
Figure 3 – Fill Over Slope Detail
Figure 4 – Minimum Lime Treatment/Select Fill
Detail for Pavement
Figure 5 – Minimum Lime Treatment/Select Fill
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Boring/Test Pit Logs by LACO - 2017
Laboratory Test Results
Geophysical Survey Results
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1.0 INTRODUCTION

This Memorandum presents the results of a geotechnical exploration performed by LACO Associates (LACO) for the planned new roadway at the following assessor's parcel numbers (APN) in Ukiah, California: 170-190-21, 170-190-22, 170-190-23, 170-190-24, 170-170-11, 170-170-13, 170-170-14, 170-170-15, 170-170-16,

170-170-17, 170-170-18, and 170-150-14-00. A Site Vicinity Map and Site Plan are presented in Figures 1 and 2, respectively.

Based on preliminary plans prepared by LACO, dated November 2, 2017, we understand the property owner plans to construct a new roadway to serve the future developments at the subject properties. It will include three main sections (Road A, Road B, and Road C) with a total length of approximately 5,400 linear feet (Figure 2). Road A is oriented in the north-south direction and located along the eastern side of the property. Roads B and C are oriented in the east-west direction, and are located in the middle and northern portion of the property, respectively.

2.0 EXPLORATION

Our subsurface exploration consisted of a review of available aerial, geologic and topographic maps, available subsurface data, and by performing a field exploration and laboratory testing program.

We reviewed select boring logs and well logs from the following reports:

- Problem Assessment Report prepared by International Technology Corporation, dated March 20, 1990
- Quarterly Sampling Report prepared by International Technology Corporation, dated January 18, 1991
- TCA Investigation Results prepared by URS, dated February 6, 2004
- Results of Remedial Site Investigation Activities prepared by SCS Engineers, dated July 23, 2004
- Results of Additional Investigation Activities prepared by SCS Engineers, dated August 17, 2005
- Revised Remedial Action Plan and 1st Quarter 2006 Groundwater Monitoring Report prepared by SCS Engineers, dated May 23, 2006
- First Revised Remedial Action Plan prepared by SCS Engineers, dated July 7, 2006
- Final Remedial Action Plan prepared by SCS Engineers, dated August 21, 2006
- Report of Waste Discharge for Stormwater Ponds prepared by SCS Engineers, dated August 15, 2008
- Results of Additional Site Investigations prepared by SCS Engineers, dated October 1, 2008
- Results of Dioxin Testing prepared by SCS Engineers, dated January 16, 2009
- Dioxin Testing Results prepared by SCS Engineers, dated January 20, 2009
- PCB Investigation Results prepared by SCS Engineers, dated December 2, 2009
- Results of Additional Subsurface Investigation for HVOC's prepared by SCS Engineers, dated April 6, 2011
- Report of Findings for AST Investigation prepared by West Environmental Services and Technology, dated December 1, 2011
- Results of Additional Groundwater Characterization prepared by SCS Engineers, dated May 7, 2013
- Results of Soil and Groundwater Investigation prepared by Erler and Kalinowski, Inc., dated March 19, 2008.

Boring logs and well logs used as part of this exploration are presented in Appendix 1, and their approximate locations are depicted in Figure 2.

3.0 FIELD EXPLORATION AND TESTING PROGRAM

On December 8, 2017, LACO Geologist obtained concrete slab cylinder samples using a 4.75-inch diameter and 4-inch diameter concrete coring barrel. The samples were delivered to our materials testing laboratory and subjected to compressive strength testing (ASTM C39). Laboratory test results are presented in Appendix 3.

On December 15 and 18, 2017, LACO Geologists explored subsurface conditions by excavating five test borings (BH1 through BH5) up to 12 feet deep, and four test pits (TP1 through TP4) up to 6 feet deep, at the approximate locations shown in Figure 2. Test borings BH1 and BH2 were drilled by a LACO geologist using a 3-inch diameter hand auger. Borings BH3 through BH5 were drilled using a track-mounted DR7K drill rig with a 7-inch diameter hollow-stem auger. Test pits were excavated using a backhoe provided and operated by the Client's contractor. Soils were logged in general accordance with the American Society for Testing and Materials (ASTM) Test Procedure D2488. Boring and Test Pit logs are presented in Appendix 2. We obtained both disturbed and relatively undisturbed soil samples. They were transported to LACO's materials testing laboratory in Santa Rosa, California, where they were subjected to the following tests: Atterberg limits (ASTM D4318) and percent finer than #200 sieve (ASTM C-117). Test results are presented in the borings/test pit logs (Appendix 2).

Two two-point composite samples were prepared from surface soils, from TP3 and TP4, and from BH1 and BH2. The samples were transported to Consolidated Engineering for R-value testing (ASTM 2844). R-value results are presented in Appendix 5.

On December 13 and 14, 2017, LACO performed a geophysical survey using the Multichannel Analysis of Surface Waves (MASW) technique along 12 transects depicted in Figure 2. ¹The surveys were performed using a 10-pound hammer as a seismic source and an array of 24 geophone receivers. Data were processed, and 2-dimensional profiles plotted. Seismic velocity profiles are presented in Appendix 3.

4.0 RESULTS

4.1 Surface Conditions

The Site is located along the western extent of the Russian river floodplain in the Ukiah Valley. The majority of the Site, including Road A and the eastern portions of Road B and C, is relatively flat with elevations ranging from 610 to 620 feet above mean sea level. The western portion of the Site is a relatively flat terrace, approximately 30 feet higher than the floodplain to the east. The terrace and floodplain are connected by a north-south trending eastern facing slope, ranging from approximately 10 to 20 percent grade.

The majority of the Site is occupied by concrete slabs from former buildings and asphalt pavement. The Road A alignment crosses through four old building footprints, depicted in Figure 2 as Buildings A, B, C, and

¹ MASW data produces a shear-wave velocity profile of subsurface materials which can be used to locate subsurface materials when correlated to nearby borings and test pit logs.

D. It crosses approximately 1,500 linear feet of concrete pavement, 1,300 feet of asphalt pavement, and 300 feet of undeveloped vegetated area. The eastern portion of Road B crosses approximately 100 feet of concrete slab of Building C, 1,000 feet of asphalt pavement ascending the slope to the west, and 400 feet of an agricultural field at the top of the terrace. Road C crosses approximately 900 feet of asphalt pavement from the east side, and then approximately 500 feet of undeveloped land as it ascends the terrace slope to the northwest.

4.2 Flood Hazard

The lower elevation floodplain in the eastern portion is mapped Flood Hazard Zone X, which is defined as 0.2 percent annual chance flood hazard, area of 1 percent annual chance flood with average depth less than 1 foot or with drainage areas of less than 1 square mile. The western portion of the Site including the terrace and ascending slope are not mapped as a flood hazard area (FEMA, 2011).

4.3 Site Geology

The Site is located on the west side of the Russian River Valley, in the Mendocino Mountain Range which forms part of the Coast Ranges Geomorphic Province of Northern California (California Geologic Survey, CGS, 2002). According to published geologic maps (Jennings and Strand, 1960; and Cardwell, 1965), the Site is underlain by recent Quaternary-aged alluvial deposits (Qal) associated with the Russian River floodplain. These deposits are described as unconsolidated lenticular deposits of clay, sand, and gravel, of moderate to high permeability. The area west of the Site is mapped as underlain by Pleistocene aged (approximately 11,700 to 2.6 million years old) non-marine terrace deposits (Qt). These deposits are described as unconsolidated silty sand and gravel, silt, and clay, of moderate to low permeability. The area east of the Site is mapped as underlain by Pliocene to Pleistocene-aged (approximately 11,700 to 5.3 million years old) Continental Deposits (QP). These deposits are described as compact, lenticular, poorly sorted silty clay, sandy and bedded sand and gravel, and poorly cemented conglomerate.

4.4 Subsurface Conditions

4.4.1 Asphalt Pavement

Based on pavement sections encountered in borings BH4 and BH5, the asphalt pavement in the western portion of the site consists of approximately 2 inches of asphalt concrete (AC) and 4 inches of aggregate base (AB)

4.4.2 Concrete Slabs and Foundations

Based on our laboratory test results, the concrete slabs of Buildings A through D range from 5 to 9 inches thick, and compressive strength of 2060 to 8680 pounds per square inch (psi). A summary of the slab core information and testing results are presented in Table 1.

Table 1. Summary of Concrete Strength

Sample Number	Building	Thickness (in)	Corrected Compressive Strength (psi)
C1	C	6	2,060
C2	A	7	8,680
C3	B	9	4,830
C4	D	5	5,650

Based on high shear-wave velocity zones observed in the MASW profiles, we anticipate the maximum foundation depths for respective buildings presented below in Table 2.

Table 2. Anticipated maximum Foundation Depths

Building	Maximum Foundation Depth Below Adjacent Grade (feet)
A	3
B	4
C	4

4.4.3 Soil Conditions

Based on our seismic velocity profiles, borehole logs, and test pit logs, the subsurface throughout the Site consists primarily of a concrete or asphalt surface, overlying imported or reworked soil (fill), which, in turn, overlays alluvial deposits. The lower elevation floodplain portion of the site is blanketed with fill up to 5 feet thick. The fill consists primarily of yellowish-brown to grayish-brown stiff sandy lean clay with gravel to medium dense clayey sand with gravel. The floodplain alluvium consists primarily of grayish-brown sandy lean clay to yellowish-brown clayey sand with gravel to the maximum depths explored. The higher elevation terrace portion of the Site is blanketed with fill up to 3 feet thick. The fill consists of light yellowish-brown sandy lean clay and medium dense clayey sand with gravel to the maximum depths explored.

4.4.4 Groundwater Conditions

Free groundwater was encountered in boring BH3 at approximately 11 feet below the ground surface (bgs) during the field exploration. Water level measurements were recorded at the time of drilling, and consequently, may not represent stabilized water levels. Based on review of nearby monitoring wells on the Geotracker website (<https://geotracker.waterboards.ca.gov>), stabilized groundwater levels have historically been as high as 1.2 feet bgs.

5.0 CONCLUSIONS

Our exploration indicates the project is feasible from a geotechnical engineering standpoint. On the basis of the above observations and our experience, we conclude that the Preliminary Roadway Design can proceed as planned. Geotechnical concerns related to the planned improvements include the following: concrete and asphalt pavements, undocumented fill, potentially expansive soil, and shallow groundwater.

6.0 RECOMMENDATIONS

Existing concrete and pavements should be removed from within and at least 5 feet beyond the new roadway area. Undocumented fill should be removed and placed under compaction within the upper 18 inches below new pavements following recommendations presented in Section 6.1 Site Preparation and Grading Section of this Memorandum. Gray sandy fat clay was encountered in the southern portion of the Site (TP1 and TP2), at a depth below 2.5 feet. Fat clay has a tendency to undergo extreme volume change during shrinkage and swell cycles from seasonal moisture change, which can result in damage to pavements. To minimize damage from expansive soil, it should be kept in a permanently saturated state by following recommendations presented in Section 6.1 of this Memorandum. To minimize construction issues resulting from high groundwater, Site grading should be performed during the dry season, typically from May to September.

6.1 Site Preparation and Grading

Areas to be graded should be stripped of surface vegetation including the underlying root/soil zone. This zone is typically about 2 to 4 inches thick, but may be deeper in areas with trees or shrubs. Stripped materials may be re-used in landscape areas, but are unsuitable for use/reuse as engineered fill. Existing concrete, pavements, and undocumented fill should be removed from areas beneath new pavements and exterior concrete flatwork. This removal area should extend 3 feet outward new pavements and flatwork exteriors, and the fill removed to a depth of at least 18 inches below the planned pavement section. These soils may be stockpiled on-site for re-use as select fill provided they meet the select fill requirements presented below.

6.1.1 Select Fill

Select fill should be composed of soil having a low expansion potential and free of organic content, debris, and/or other deleterious matter. It should not contain rocks larger than 3 inches in greatest dimension and conform to the following requirements:

Plasticity Index:	less than 15 percent;
Liquid Limit:	less than 40 percent; and
Percent passing No. 200 sieve:	50 maximum, 5 minimum.

Following removal of undocumented fill, the exposed subgrade should be scarified to a depth of 6 inches, moisture conditioned to within 2 percent of optimum moisture content, and compacted to at least 90 percent relative compaction per ASTM D1557 requirements. It should be placed in thin layers not exceeding 8 inches in loose thickness, moisture conditioned to near the optimum moisture content and

compacted to at least 90 percent relative compaction. In areas to receive vehicular traffic, the upper 12 inches should be compacted to at least 95 percent relative compaction to achieve a smooth non-yielding surface.

6.1.2 *Cut and Fill Slopes*

Cut and fill slopes should not be steeper than 2:1 (horizontal : vertical). Fill slopes should be constructed in flat uniform lifts, following recommendations presented in Section 6.1 of this Memorandum. They should be laterally overbuilt by two feet, then trimmed back to expose a firm finished surface. The western portions of Road B and C ascend the terrace slope to the west and may require placement of fill on a slope. Fill placed on a slope should be constructed in accordance with the Fill Over Slope Construction methods presented in Figure 3. The toe of the fill slope should be keyed into grayish brown stiff sandy lean clay underlying the undocumented fill.

6.1.3 *Expansive Soil*

Potentially expansive fat clay in the upper 18 inches below planned pavement sections or concrete flatwork, and extending 3 feet from exteriors, should be lime-treated or over-excavated and replaced with select fill following recommendations presented in Figures 4 and 5, respectively.

6.1.4 *Lime Treatment*

Lime treatment refers to mixing of quicklime (calcium oxide), hydrated lime (calcium hydroxide), or lime slurry with soil to permanently reduce or eliminate expansion potential, among other benefits. Lime treatment should consist of a select percent of lime by weight (dry weight of lime to dry weight of soil) that is thoroughly mixed in-place and properly "slaked" or moisture conditioned in sufficient quantity to achieve adequate lime-soil reaction. The percentage of lime should be selected to lower the plasticity index (PI) of on-site surface soil to a maximum of 15 percent. Based on our experience with similar projects, we anticipate the amount of lime required will be approximately 5 percent. Lime treatment operations should be performed by a qualified contractor experienced with similar applications.

Lime should be thoroughly mixed and slaked in-place. Mixing will typically consist of roto-tilling or other mechanical methods that can mix to a depth of at least 18 inches. Remixing of treated soil is required prior to compaction. Lime-treated soil also requires a "curing" time of a minimum of 24 hours prior to remixing and compaction and placement of additional soil lifts. The treated and cured area then should be moisture-conditioned as necessary and compacted to at least 90 percent relative compaction.² In areas to receive vehicular traffic, the upper 6 inches should be compacted to 95 percent relative compaction to achieve a smooth non-yielding surface. Lime treatment recommendations assume that mitigation, including compaction, can be performed with equipment effective to a depth of 18 inches. Should other equipment be utilized, soil removal, treatment, and compaction depths should be adjusted accordingly.

² Relative compaction refers to the ratio of the in -place dry density of the soil to the maximum dry density as described in the latest addition of the ASTM D1557 compaction test procedure. Optimum moisture content is the water content as a percentage of the dry weight of the soil corresponding to the maximum dry density.

6.2 Pavements

Asphalt and concrete pavements should be constructed on a firm, non-yielding subgrade prepared in accordance with Section 6.1 of this Memorandum.

6.2.1 Asphalt Pavement

Due to the presence of undocumented fill, pavement sections should bear on at least 18 inches select fill prepared following recommendations presented in Section 6.1 of this Memorandum. Using a R-value of 50, based on test results (Appendix 5), CalTrans flexible pavement design procedures, and Mendocino County Structural design chart STD. NO A22, we recommend using the minimum hot mix asphalt (HMA) and aggregate base thicknesses summarized in Table 3 below.

Table 3. Minimum Pavement Section Thickness

Intended Use	Traffic Index	HMA Thickness (Inches)	Aggregate Base Thickness (Inches)
Access roads and driveways	10	6	11

HMA-Hot Mix Asphalt

Aggregate base materials should meet the requirements for Class 2 aggregate base as specified in the latest edition of the CalTrans Standard Specifications. It should be compacted to at least 95 percent relative compaction per ASTM D1557 prior to HMA placement.

6.2.2 Concrete Flatwork

Exterior concrete flatwork should be constructed on a pad of lime-treated soil or select fill, prepared following recommendations presented in Section 6.1 of this Memorandum. Where migration of moisture through the slab may be detrimental, the crushed rock layer should be covered with a vapor retarder (Stego® Wrap or equivalent) installed in accordance with manufacturer's specifications. Joints between membrane sheets and utility piping openings should be lapped and taped. Care should be taken during slab construction to protect the plastic membrane against punctures.

Special precautions should be taken during the placement and curing of concrete slabs and sidewalks. Excessive slump (high water-cement ratio) of the concrete and/or improper curing procedures used during either hot- or cold-weather conditions could lead to excessive shrinkage, cracking, or curling of the slabs and sidewalks. High water-cement ratio and/or improper curing also greatly increase the water vapor permeability of concrete. We recommend all concrete placement and curing operations be performed in accordance with the American Concrete Institute (ACI) manual.

7.0 FUTURE GEOTECHNICAL SERVICES

LACO should review the final construction drawings and specifications, to check that they conform to the intent of the recommendations presented in this Memorandum. During construction, LACO should observe subgrade preparation, and fill placement, and perform field and laboratory tests to check that the work is performed in accordance with the project construction drawings and specifications.

8.0 LIMITATIONS

This Memorandum has been prepared for the exclusive use of Friends of Liberty, LLC, its contractors and subconsultants, and appropriate public authorities for specific application to the project development. LACO has endeavored to comply with the generally accepted geotechnical engineering standard of care common to the local area, and makes no other warranty, express or implied.

The findings, analyses, and recommendations contained in this Memorandum are based on data obtained from subsurface exploration and/or laboratory tests. The exploration methods used indicate subsurface conditions only at specific locations, only at the time they were observed, and only to the depths penetrated. Exploration locations cannot always be relied upon to accurately reflect stratigraphic variations, nor do they necessarily represent conditions at any other time or location.

The recommendations included in this Memorandum are based in part on assumptions about subsurface conditions that may only be confirmed during earthwork. Accordingly, the validity of these recommendations is contingent upon LACO being retained to provide additional professional services during project design and construction. LACO cannot assume responsibility or liability for the adequacy of the Report recommendations when they are applied in the field unless LACO is retained to observe construction. Please contact us to further discuss the extent of such observations required to check the validity of our recommendations.

This Memorandum's findings, conclusions, or recommendations should not be used if the nature, design, or location of the proposed project development is changed. If changes are contemplated, LACO should be consulted to review their impact on the applicability of the findings, conclusions, or recommendations contained in this Memorandum. Also, LACO will not be responsible for any claims, damages, or liability associated with any other party's interpretation of the subsurface data or re-use of this Memorandum for other projects or at other locations without the express written authorization of LACO.

REFERENCES

- Federal Emergency Management Agency (FEMA), 2011. Flood Insurance Rate Map Number 06045C1512F. Mendocino County, California, Panel 1512 of 2100, National Flood Insurance Program, Accessed February 8, 2018.
- Cardwell, G. T., 1965, Geology and Ground Water in Russian River Valley Areas and in Round, Laytonville, and Little Lake Valleys, Sonoma and Mendocino Counties, California. Geological Survey Water-Supply Paper 1548, United States Department of the Interior.
- Jennings, C. W., Strand, R. G., 1960, Geologic Map of California – Ukiah Sheet. Olaf P. Jenkins Edition, State of California, Division of Mines.

FIGURES

Figure 1	Site Vicinity Map
Figure 2	Site Plan
Figure 3	Fill Over Slope Detail
Figure 4	Minimum Lime Treatment/Select Fill Detail for Pavement
Figure 5	Minimum Lime Treatment/Select Fill Detail for Concrete Flatwork

LACO

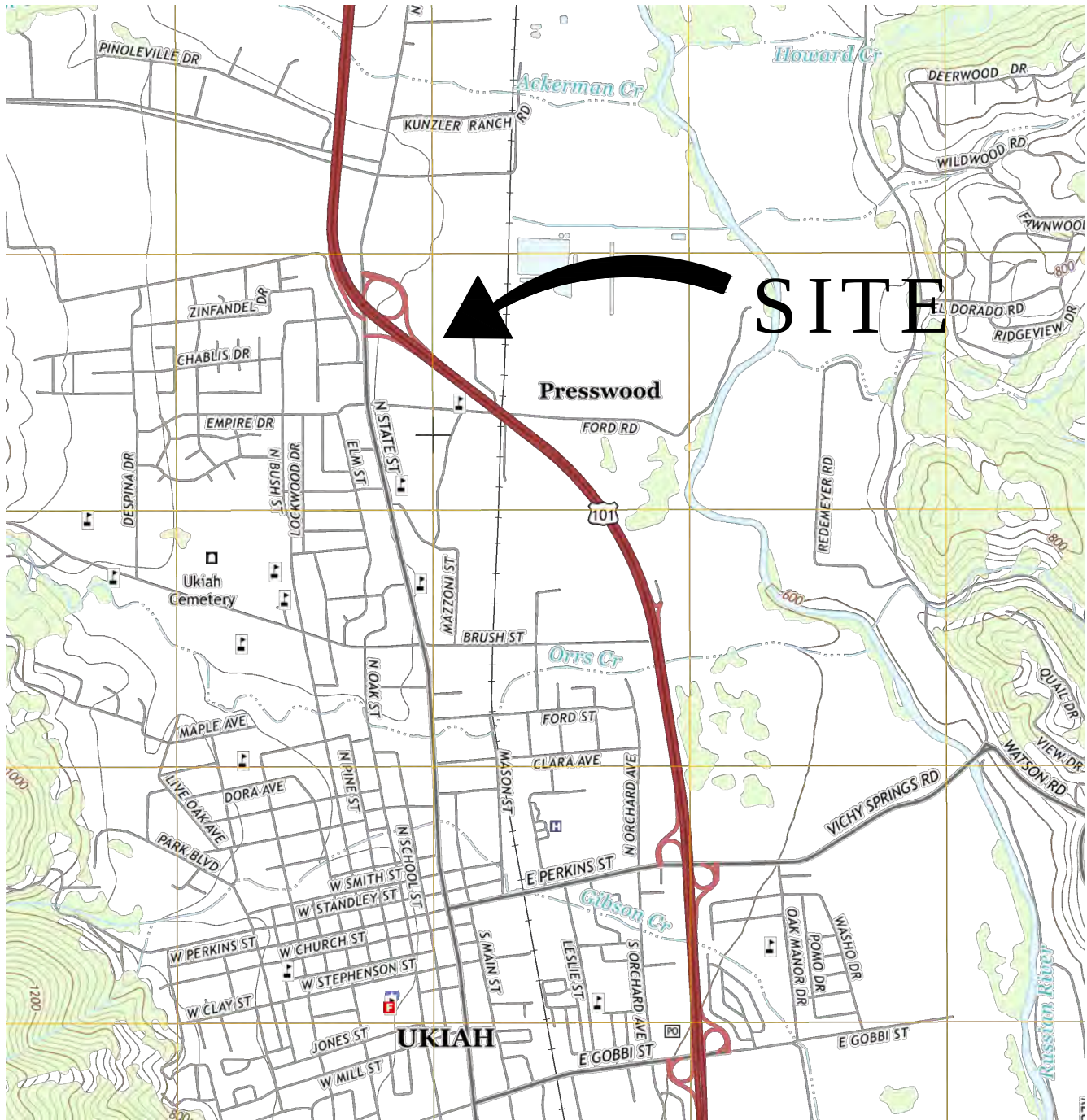
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PROJECT	PRELIMINARY ROADWAY DESIGN	BY	CRGT	FIGURE	1
CLIENT	FRIENDS OF LIBERTY, LLC	DATE	1/9/2018		
LOCATION	1307 MASONITE ROAD, UKIAH, CA	CHECK	BAV	JOB NO.	7583.14
	GEOTECHNICAL EXPLORATION	SCALE	AS SHOWN		

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SCALE: 1"=2000'



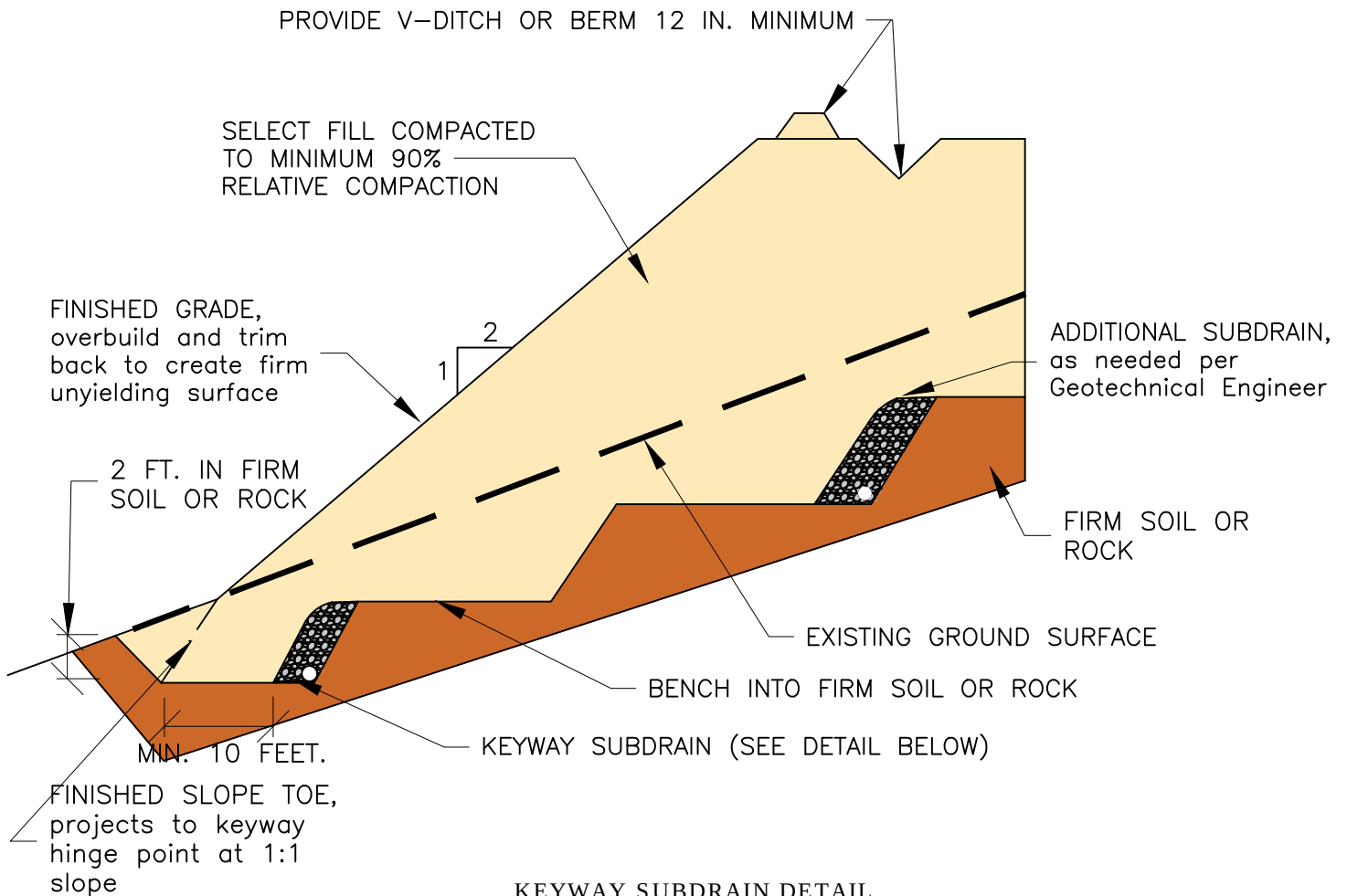


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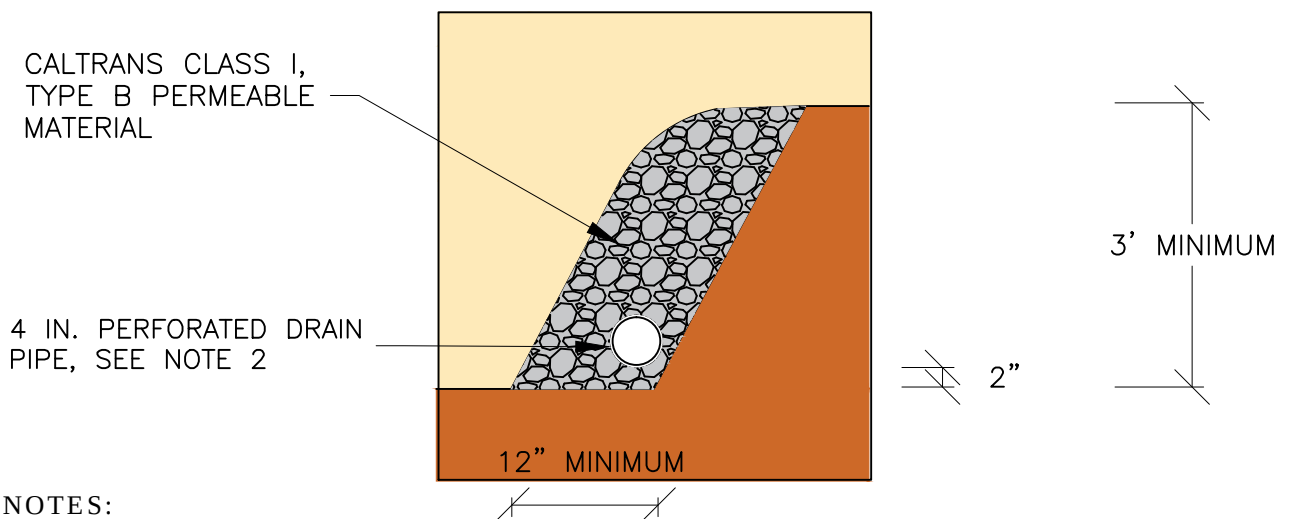
1/1

PROJECT	PRELIMINARY ROADWAY DESIGN	BY	BAV	FIGURE	3
CLIENT	FRIENDS OF LIBERTY, LLC	DATE	2/15/18		
LOCATION	1307 MASONITE ROADWAY, UKIAH, CA	CHECK	JER	JOB NO.	7583.14
	FILL OVER SLOPE CONSTRUCTION	SCALE	NTS		

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KEYWAY SUBDRAIN DETAIL



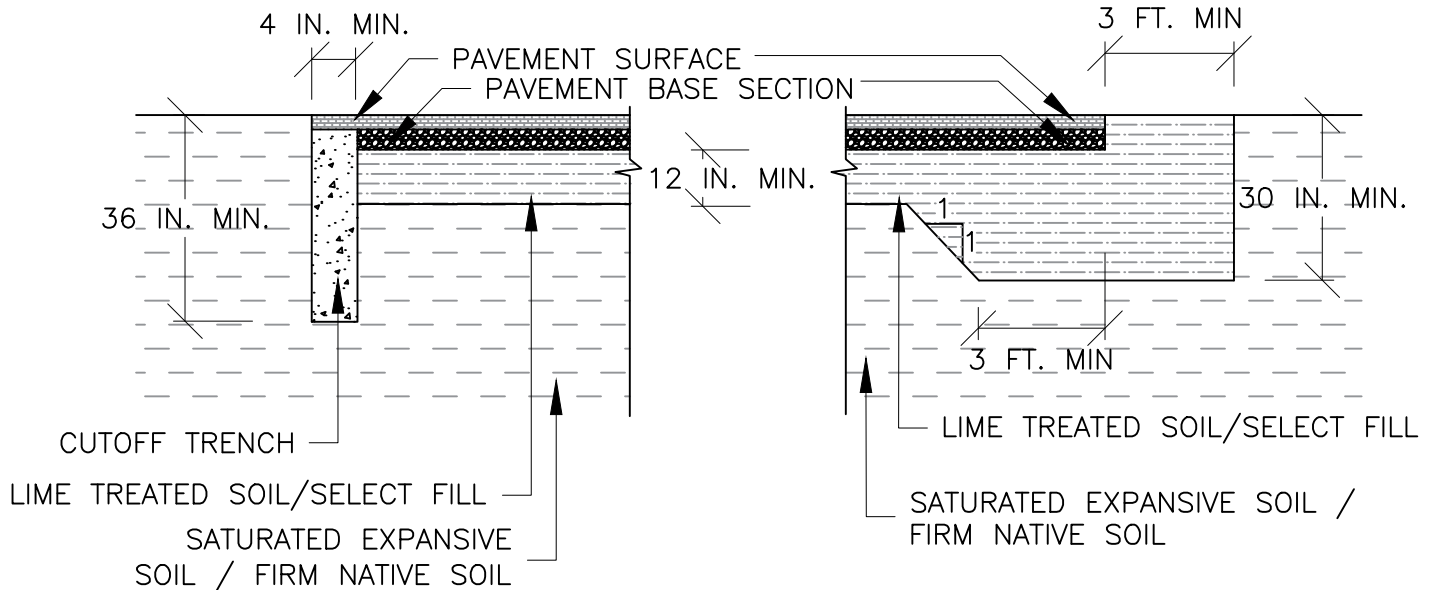
NOTES:

- (1) Drain rock should meet the Class 1 Type B permeable material requirements in the latest version of the Caltrans standard specifications.
- (2) Drain pipe should be SDR 35 or equivalent, placed with perforation down, and sloped at a minimum of 1% to drain to gravity outlet or sump with automatic pump.
- (3) A clean-out pipe with cap should be installed at the up-slope end of perforated pipe, and pipe elbows should be 45 degrees or less (for "snake" access)

PROJECT	PRELIMINARY ROADWAY DESIGN	BY	BAV	FIGURE	4
CLIENT	FRIENDS OF LIBERTY, LLC	DATE	2/15/18		
LOCATION	1307 MASONITE ROAD, UKIAH, CA	CHECK	JER	JOB NO.	7583.14
MINIMUM LIME TREATMENT/SELECT FILL DETAIL FOR PAVEMENT AREAS			SCALE	N.T.S.	

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PAVEMENTS



NOTES:

- 1) The above edge treatment cutoffs will not be required where pavement edges are adjacent to buildings, exterior concrete slabs or existing pavements. Where a curb is used with a concrete cutoff wall, the curb should be placed on top of this wall.
- 2) Strip upper 4 inches of natural soil containing grass, roots and other vegetation, as required.
- 3) Within pavement areas, remove existing fill soils to at least 18 inches below subgrade. If select fill cutoff is used, excavate weak porous soil and underlying expansive soil to depths and limits shown at pavement edges.
- 4) Moisture condition expansive soils to, and maintain at, 4 percent or more above optimum moisture content to close shrinkage cracks for their full depth; then scarify soils to a depth of at least 6 inches and compact to at least 85 percent relative compaction; based on the ASTM D 1557, latest edition, compaction procedure.
- 5) Approved select fill material are free of perishable material and conform to the following requirements:

Sieve Size Percent Passing (by Dry Weight)

6 inch	100
4 inch	90 to 100
No. 200	15 to 60

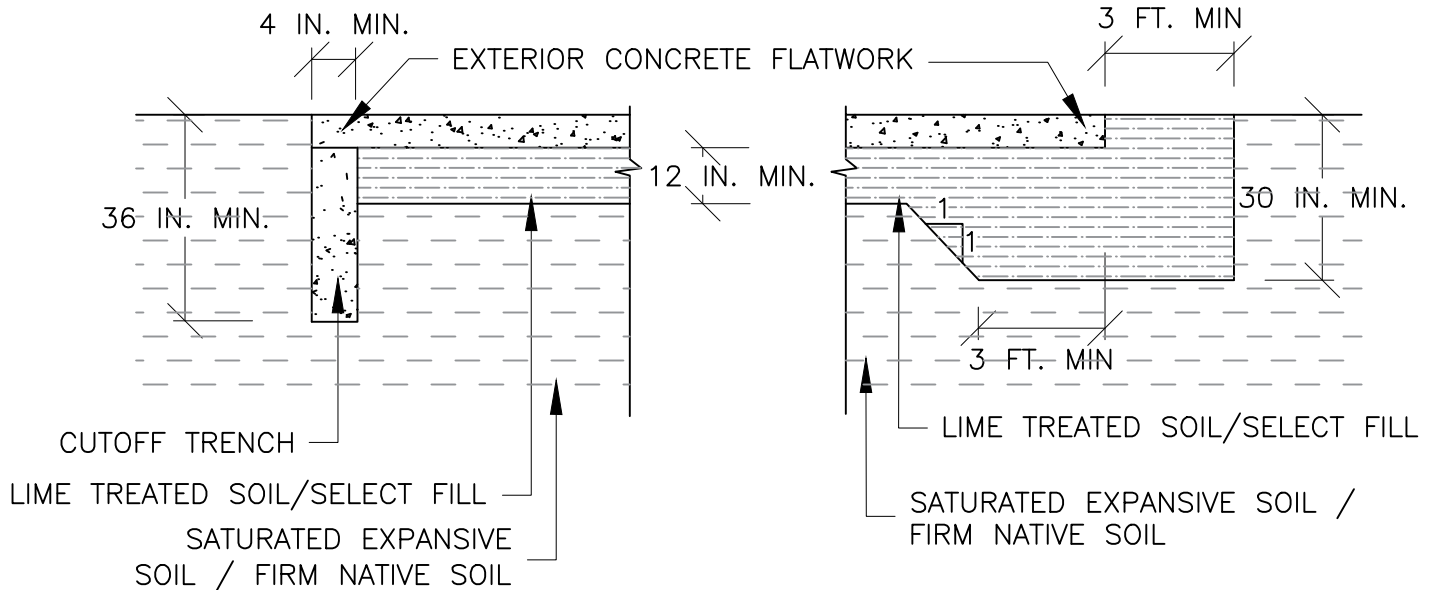
Liquid Limit	—	40 maximum
Plasticity Index	—	15 maximum
or		
Expansion Index	—	30 maximum

- 6) Place all fill, select or on-site expansive, in thin lifts, moisture condition as necessary (moisture condition on-site expansive soils, and maintain at 4 percent or more over optimum moisture content) and compact to at least 90 percent relative compaction.
- 7) Compact the upper 6 inches of subgrade soils to at least 90 relative compaction for on-site expansive soils and to at least 95 percent for select materials to provide smooth, unyielding surfaces. Maintain the above optimum moisture contents in the expansive soils until covered with the complete pavement section.

PROJECT	PRELIMINARY ROADWAY DESIGN	BY	BAV	FIGURE	5
CLIENT	FRIENDS OF LIBERTY, LLC	DATE	2/15/18		
LOCATION	1307 MASONITE ROAD, UKIAH, CA	CHECK	JER	JOB NO.	7583.14
MINIMUM LIME TREATMENT/SELECT FILL DETAIL FOR EXTERIOR CONCRETE FLATWORK AREAS		SCALE	N.T.S.		

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EXTERIOR CONCRETE FLATWORK



NOTES:

- 1) The above edge treatment cutoffs will not be required where exterior slabs abut buildings or pavements, or at edges of non-structural exterior slabs.
- 2) Strip upper 4 inches of natural soil containing grass, roots and other vegetation, as required.
- 3) Within exterior concrete slab areas, and extending beyond the edges to the minimum distance shown, remove existing fill for its full depth, and where required, remove expansive soils to at least 12 inches below select fill subgrade. If select fill cutoff is used, excavate expansive soil to depths limits shown.
- 4) Moisture condition expansive soils to, and maintain at, 4 percent or more above optimum moisture content to close shrinkage cracks for their full depth; then scarify exposed soils to a depth of at least 6 inches and compact to at least 85 percent relative compaction; based on the ASTM D 1557, latest edition, compaction procedure.
- 5) Approved select fill material are free of perishable material and conform to the following requirements:

Sieve Size Percent Passing (by Dry Weight)

6 inch	100
4 inch	90 to 100
No. 200	15 to 60

Liquid Limit	—	40 maximum
Plasticity Index	—	15 maximum
or		
Expansion Index	—	30 maximum

- 6) Place all fill, select or on-site expansive, in thin lifts, moisture condition as necessary (moisture condition on-site expansive soils, and maintain at 4 percent or more over optimum moisture content) and compact to at least 90 percent relative compaction. Finish subgrades to present smooth, unyielding surfaces. On-site expansive soil may be used outside of select fill areas or below the required select fill zones.

APPENDIX 1

Boring/Well Logs by Others

Appendix C:

Monitoring Well MUF-A06-06 Information

Unified Soil Classification System Chart and Boring Log Legend

Boring Log

Well Completion Diagram

DWR-188 Well Completion Report

Well Development Record

Well Survey Report

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	



Soil sample submitted for chemical analysis



Soil sample examined for soil classification

Sampler Type

CMSS = CA Modified Split Spoon

SPT = Standard Penetration Test

CBS = Continuous Barrel Sampler

DP = Direct Push Sampler

GRAB = Grab Sample

HA = Hand Auger



Initial Static Water Level



First Identified Free Water

n.a. = not applicable

n.r. = not recorded

SCS ENGINEERS	UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND	Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.01	Figure:
			Appendix D
			D-1
Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769			1 of 1

Date (start, end): 5/3/06 - 5/3/06		Boring No.	Boring Location: See site map
Drilling Time (start, end) 10:30 - 14:00		MUF-A06-06	
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.	
Checked By: Stephen Knüttel			
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☒ N ☐ if no, boring backfilled with:	
Driller's Name: Chris Herrell		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐	
Drilling Method: 8-in. Hollow-Stem Auger		Auger Depth, ft: 15.0 Total Depth, ft: 16.5	
Sampling Method: CMSS			
Hammer weight / fall: 140 lbs / 30 inch			
Notes: Inside Main Production Facility			

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.6							CONCRETE over base rock.
								615.1							
								614.6	1						CLAY with Gravel(CL): brown, fine to medium grained sand and fine and coarse gravel, moist (FILL).
									2						
								612.6	3						SANDY CLAY with Gravel(CL): gray to brown, fine to medium grained sand and fine and coarse gravel, moist to wet.
						No	No		4						
									5		20	20	30	30	Wet.
	6	7	CMSS		0										
	6	9									20	20	30	30	
	6	9							6		20	20	30	30	
								608.6	7						SILTY SAND with Gravel(SM): gray to brown, fine to coarse grained sand and fine and coarse gravel, minor clay, wet.
									8						
									9						
						?	?		10		20	40	30	10	
	6	10	CMSS		20										
	6	11									20	40	30	10	
	6	17							11		20	40	30	10	

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/18/06

SCS ENGINEERS

Environmental Consultants
3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A06-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A06-06

1 of 2

Appendix A:

Laboratory Analytical Reports

Analytical Sciences Report # 6022211, dated March 24, 2006
Analytical Sciences Report # 6050117, (revised), dated June 16, 2006
Analytical Sciences Report # 6050201, dated May 4, 2006
Analytical Sciences Report # 6050306, dated May 4, 2006
Analytical Sciences Report # 6050408, dated May 5, 2006
Analytical Sciences Report # 6050801, dated May 9, 2006
Analytical Sciences Report # 6050308, dated May 15, 2006
Analytical Sciences Report # 6050802, dated May 15, 2006

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/18/06

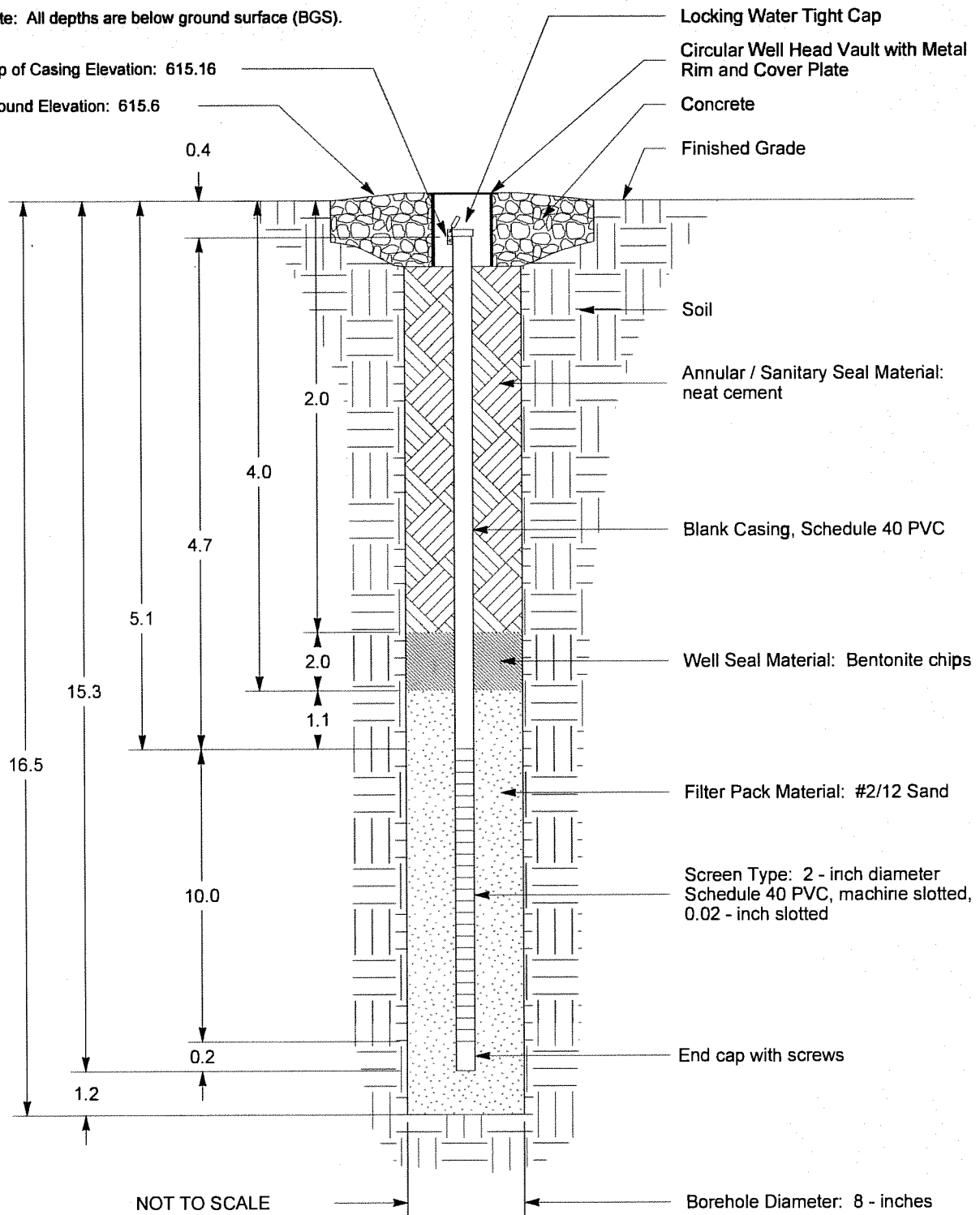
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						?	?	603.1	13						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
						No	No		14						
					0				15		50	20	20	10	
									16		50	20	20	10	
								599.1	16		50	20	20	10	TOTAL DEPTH = 16.5 FEET
									17						
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A06-06 Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.01		Figure: MUF-A06-06 2 of 2
---	---	--	---------------------------------

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 615.16

Ground Elevation: 615.6



SCS ENGINEERS

Environmental Consultants
3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A06-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

Appendix D
MUF-A06-06

ORIGINAL
File with DWR
Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Owner's Well No. **MUF-A06-06**
Date Work Began **05/03/06** Ended **05/03/06**

No. **1072907**

Local Permit Agency **Mendocino County Environmental Health**

Permit No. **23-5189** Permit Date **04/28/06**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE ☐ (SPECIFY)			DRILLING METHOD Hollow-Stem Auger FLUID n.a.
DEPTH FROM SURFACE			DESCRIPTION
FL	TO	FT	Describe material, grain size, color, etc.
0.5	1		FILL.
1	3		CLAY with Gravel (CL): brown, fine to medium grained sand and fine and coarse gravel, moist.
3	7		SANDY CLAY with Gravel (CL): gray to brown, fine to medium grained sand and fine and coarse gravel, moist to wet.
5			Wet.
7	12.5		SILTY SAND with Gravel (SM): gray to brown, fine to coarse grained sand and fine and coarse gravel, minor clay, wet.
12.5	16.5		GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.

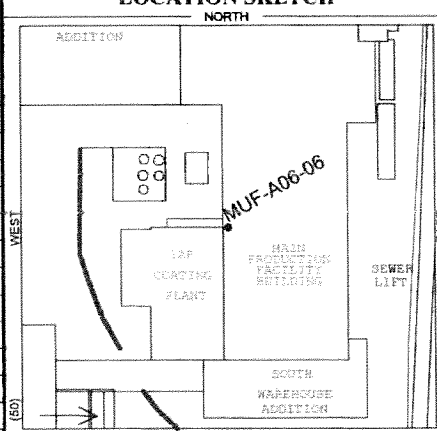
WELL OWNER

Name **Masonite International**
Mailing Address **1955 Powis Road**
West Chicago **Illinois** **60185**
CITY STATE ZIP

WELL LOCATION

Address **300 Ford Road**
City **Ukiah**
County **Mendocino**
APN Book **170** Page **190** Parcel **006**
Township Range Section
Latitude DEG MIN SEC NORTH Longitude DEG MIN SEC WEST

LOCATION SKETCH



ACTIVITY (✓)

☒ NEW WELL
MODIFICATION/REPAIR
— Deepen
— Other (Specify)

DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")

PLANNED USES (✓)

WATER SUPPLY
— Domestic — Public
— Irrigation — Industrial

MONITORING ☒

TEST WELL

CATHODIC PROTECTION

HEAT EXCHANGE

DIRECT PUSH

INJECTION

VAPOR EXTRACTOR

SPARGING

REMEDIATION

OTHER (SPECIFY)

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER **5** (FL) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL **n.a.** (FL) & DATE MEASURED **n.a.**
ESTIMATED YIELD * **n.a.** (GPM) & TEST TYPE **n.a.**
TEST LENGTH **n.a.** (Hrs.) TOTAL DRAWDOWN **n.a.** (FL)
* May not be representative of a well's long-term yield.

TOTAL DEPTH OF BORING **16.5** (Feet)
TOTAL DEPTH OF COMPLETED WELL **15.3** (Feet)

DEPTH FROM SURFACE			CASING (S)				
FL to FL			TYPE (✓)			MATERIAL / GRADE	INTERNAL DIAMETER (inches)
			BLANK	SCREEN	CON- DUCTOR		
0.4	5.1	8	✓			PVC	2
5.1	15.1	8		✓		PVC	2
15.1	15.3	8	✓			PVC	2

DEPTH FROM SURFACE			ANNULAR MATERIAL			
FL to FL			TYPE			
			CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	2.0		✓			
2.0	4.0			✓		
4.0	16.5				✓	#2/12 Sand

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**
PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

ADDRESS **3645 Westwind Boulevard**

CITY **Santa Rosa**

STATE **California** ZIP **95403**

Signed **SK**
WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED **17 MAY 05** **780357**
C-57 LICENSE NUMBER

SCS ENGINEERS

WELL DEVELOPMENT RECORD

WELL NUMBER

MUF-A06-06

PROJECT

Former Masonite Facility

JOB NUMBER

01203377.01

SITE

300 Ford Road

RECORDED BY

Bruce Taverner

PROJECT LOCATION

300 Ford Road Ukiah, California

AIR TEMPERATURE

~70s ° F

WEATHER

Overcast

SUBCONTRACTOR

None

METHOD

DEVELOPMENT CRITERIA

Minimum of 4 well volumes or until discharge is clear and water characteristics have stabilized.

HAND PUMP (HP)

SUBMERSIBLE PUMP (SP)

BAILER (B)

SURGE BLOCK (SB)

X

X

Surge block

REMARKS

HOLE DIAMETER d_H = 8.0

WELL CASING

INSIDE DIAM d_{wID} = 2.0

OUTSIDE DIAM d_{wOD} = 2.5

DEPTH TO:

WATER LEVEL h = 5.66

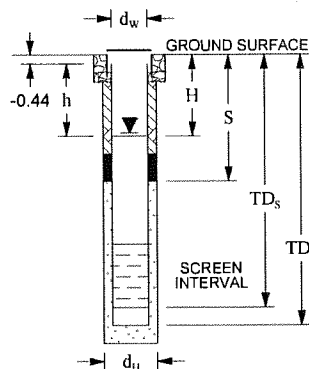
BASE OF SEAL S = 4.0

BASE OF SCREEN TD_s = 15.1

BASE OF SUMP TD_c = 15.3

ESTIMATED FILTER PACK POROSITY P = 0.25

Diameters in (inches) : Depths in (feet)



PURGE VOLUME CALCULATION

CASING VOLUME =

$$V_c = \pi \left(\frac{d_{wID}}{2} \right)^2 (TD_c - H) = 3.14 \left(\frac{0.17}{2} \right)^2 (15.3 - 6.1) = 0.20 \text{ ft}^3$$

FILTER PACK PORE VOLUME =

$$V_f = \pi \left[\left(\frac{d_H}{2} \right)^2 - \left(\frac{d_{wOD}}{2} \right)^2 \right] (TD_s - (S \text{ or } H)) (P) = 0.71 \text{ ft}^3$$

TOTAL WELL VOLUME =

$$V_T = V_c + V_f = 0.91 \text{ ft}^3 \times 7.48 \text{ gal/ft}^3 = 6.8 \text{ gal}$$

(* If $S > H$, use S ; if $S < H$, use H)

DEVELOPMENT LOG

CUMULATIVE TOTAL REMOVED

WATER CHARACTERISTICS

COMMENTS

DATE	TIME		METHOD	WATER REMOVED (GAL)	GAL	WELL VOLUMES	pH	CONDUCTIVITY (mmhos/cm)	TURBIDITY (NTU)	TEMPERATURE (°C)	
	BEGIN	FINISH									
05/04/06	10:16	10:27	B	5	5	0.74	7.32	1.22	120	14.1	
05/04/06	10:34	10:38	SP	5	10	1.47	7.23	0.356	876	14.2	
05/04/06	10:41	10:50	SB	0	10	1.47	n.a.	n.a.	n.a.	n.a.	50 strokes
05/04/06	10:50	10:58	SP	5	15	2.21	7.39	0.376	396	14.1	
05/04/06	10:58	11:02	SP	5	20	2.94	6.97	0.27	980	14.1	
05/04/06	11:02	11:05	SP	5	25	3.68	6.83	0.243	*MLE	14.1	
05/04/06	11:05	11:08	SP	5	30	4.41	6.74	0.25	*MLE	14.2	
05/04/06	11:08	11:11	SP	5	35	5.15	6.73	0.237	*MLE	14.2	
05/04/06	11:11	11:15	SP	5	40	5.88	6.71	0.223	*MLE	14.2	
05/04/06	11:15	11:19	SP	5	45	6.62	6.67	0.21	939	14.2	
05/04/06	11:19	11:21	SP	5	50	7.35	6.62	0.23	*MLE	14.2	
05/04/06	11:21	11:26	SB	0	50	7.35	n.a.	n.a.	n.a.	n.a.	30 strokes
05/04/06	11:26	11:29	SP	5	55	8.09	6.91	0.2	*MLE	14.1	
05/04/06	11:29	11:37	SP	10	65	9.56	6.65	0.185	145	14.1	
05/04/06	11:37	11:43	SP	10	75	11.03	6.58	0.182	10	14.1	
05/04/06	11:43	11:50	SB	0	75	11.03	n.a.	n.a.	n.a.	n.a.	30 strokes
05/04/06	11:50	11:53	SP	5	80	11.76	6.76	0.189	948	14.1	
05/04/06	11:53	11:57	SP	5	85	12.50	6.62	0.181	327	14.1	
05/04/06	11:57	12:00	SP	5	90	13.23	6.6	0.182	103	14.1	
05/04/06	12:00	12:03	SP	5	95	13.97	6.57	0.179	10	14.1	
05/04/06	12:03	12:06	SP	5	100	14.70	6.57	0.177	10	14.1	

MONITORING WELL ELEVATIONS & LOCATIONS

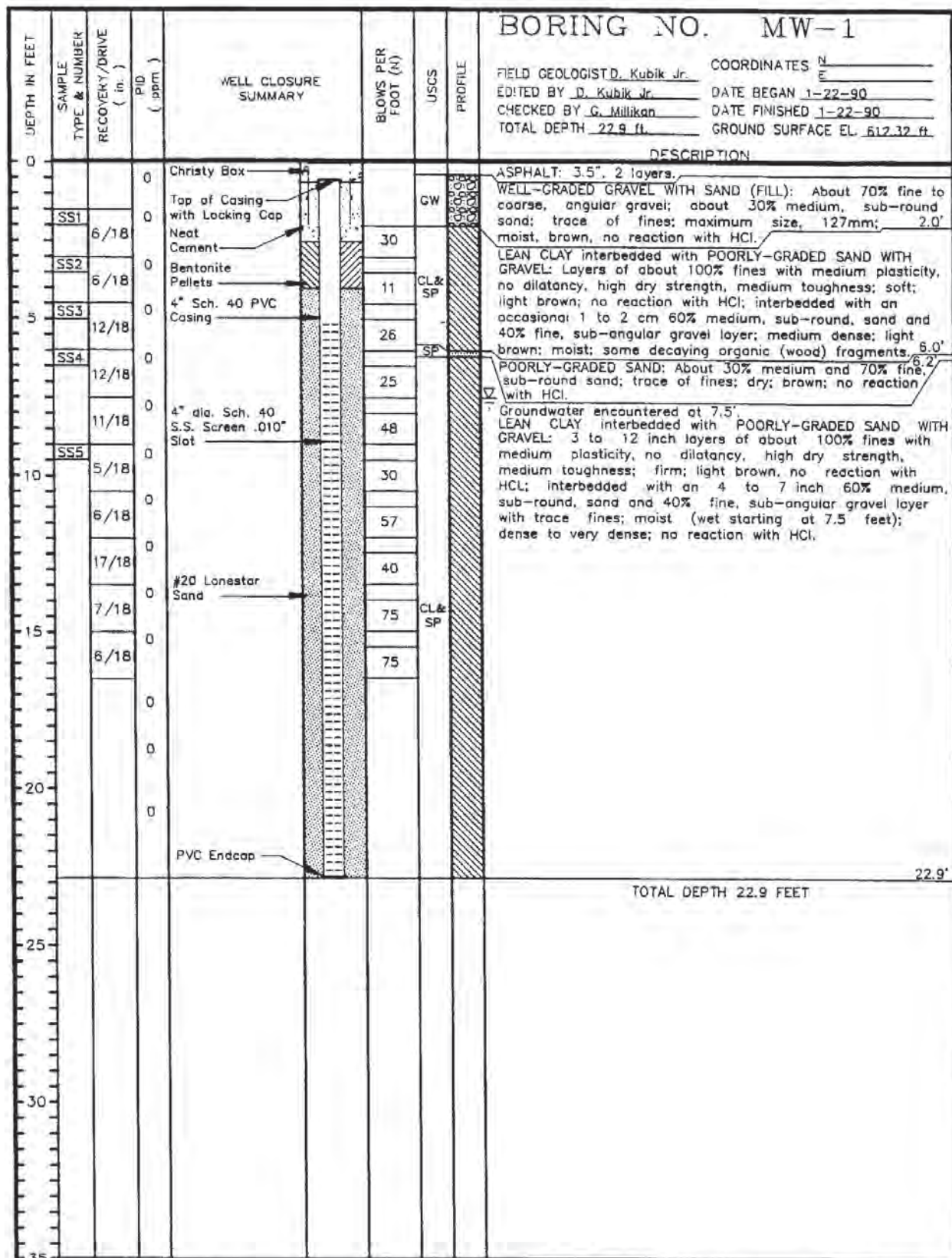
TQ: SCS Engineers RE: Masonite DATE: 5-15-06 Job # 04-994-ME
 3645 Westwind Blvd. 300 Ford Rd. Rev. Your Job No. 3377
 Santa Rosa, California 95403 Ukiah, Ca.

On 5-14-06 this office ran a closed level loop with a Zeiss Ni2 Auto level from a previously set Temporary Benchmark on the site based on USGS BM W-104. Previous report by this office dated 5-21-04 used NGVD 1929 datum, report by this office dated 7-14-05 used NAVD 88 datum as does this report. To derive NAVD 88 from NGVD 1929, add 2.84 feet to elevations. On 5-14-06 employing a Leica GS 20, the following Latitudes and Longitudes were also derived for the monitoring wells.

MW#	Casing	Rim	Ground	Latitude	Longitude	Pos. Qlty/ft	Comments
A06-06 **	615.16	615.60	615.60	39.1715522	-123.2063996	3.28	(N)(S)
APEX-1	615.51	615.74	615.73	39.1719307	-123.2075948	1.33	(N)(S)(M)
APEX-2	616.13	616.51	616.50	39.1720082	-123.2073738	0.85	(N)(S)
APEX-3	615.04	615.51	615.41	39.1720541	-123.2076278	1.12	(N)(S)
APEX-4	619.28	619.57	619.42	39.1718245	-123.2080384	1.44	(N)(S)(M)
APEX-5	615.33	615.61	615.61	39.1716794	-123.2073499	1.59	(N)(S)
APEX-6	616.41	616.77	616.77	39.1715677	-123.2075161	1.44	(N)(S)

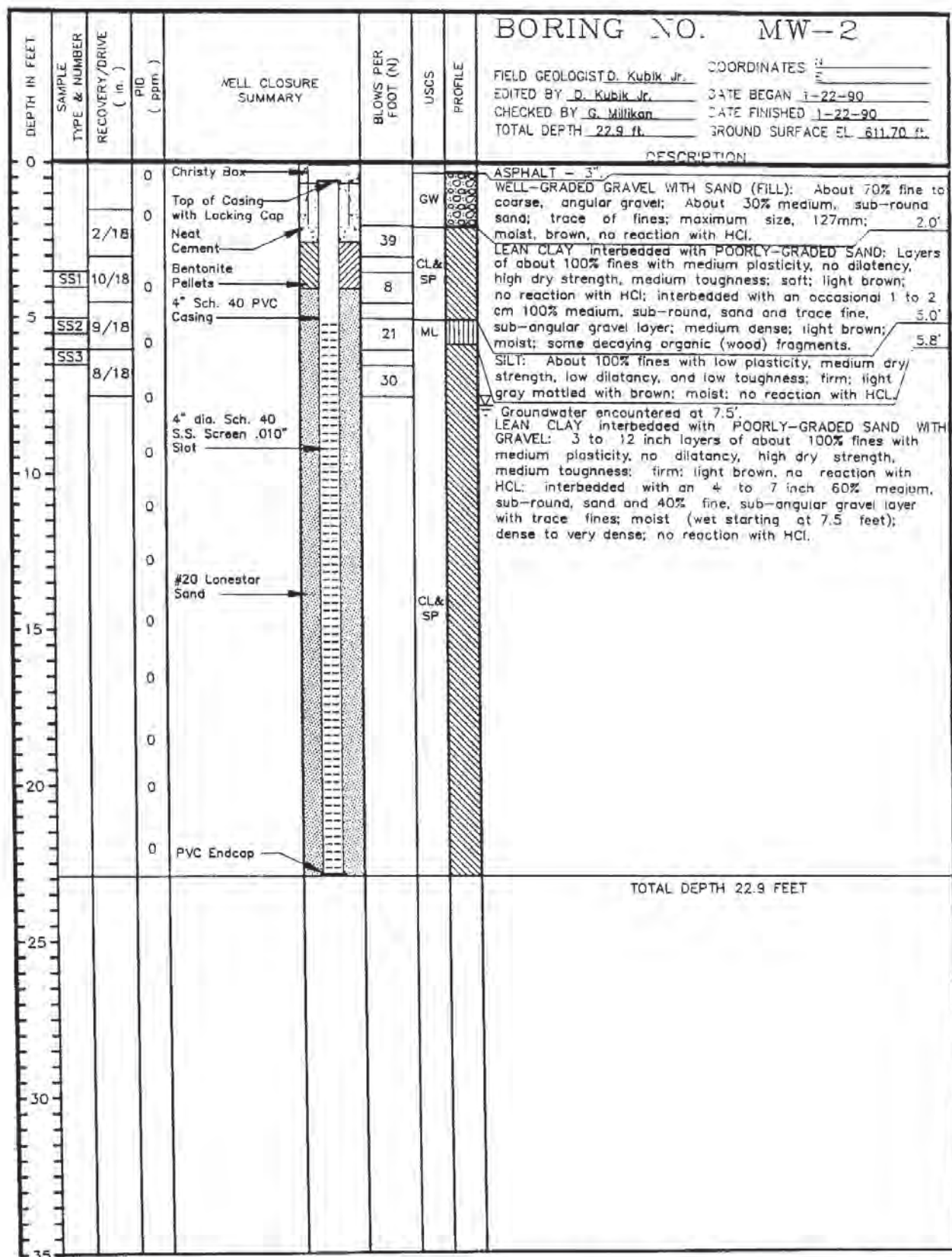
KEY (A) = Allen head bolt (L) = Large bolt (S) = Small bolt (N)(E)(S)(W) = Direction (B) = Black mark
 (BN) = Black mark/notch (M) = Missing/stripped bolt (OC) = Outer casing (HP) = High point (P) = Pressure

** This well is inside structure, Azimuth-Distance offset employed to derive location.



DRILLING CO.: Kvihaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNT-1(MASI)

PAGE 1 OF 1

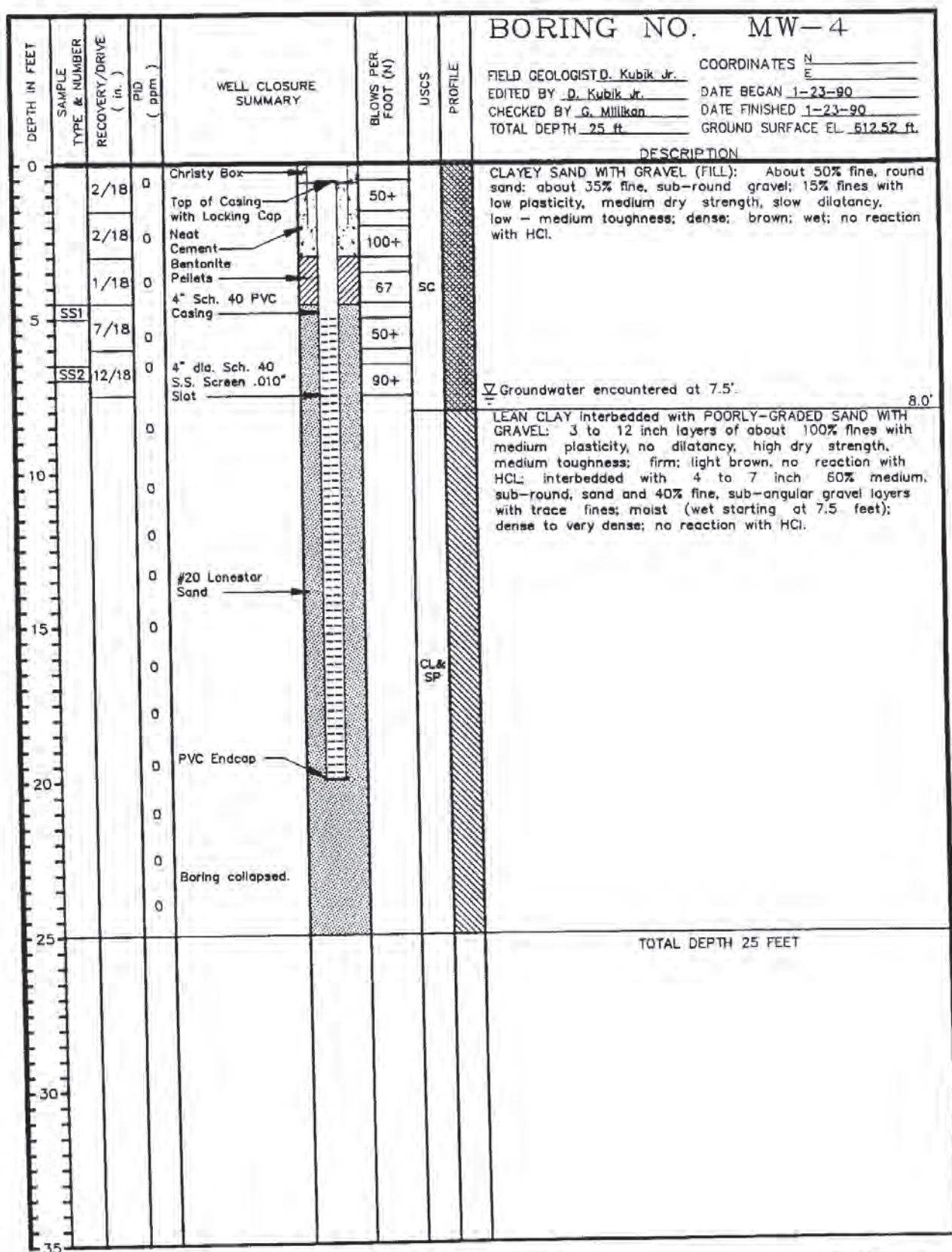


DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNT-2(*MAS1)

PAGE 1 OF 3

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

DRILLING CO.: Kvilhaug Well Drilling & Pump Company
DRILL METHOD: Hollow Stem Auger; Mobile B-61
SAMPLING METHOD: Split Spoon (SS) Sampler
PROJECT NO.: 148001
CLIENT: Masonite Corporation
LOCATION: 300 Ford Road
 Ukiah, California, 95482
MASNIT-3(*MASI)

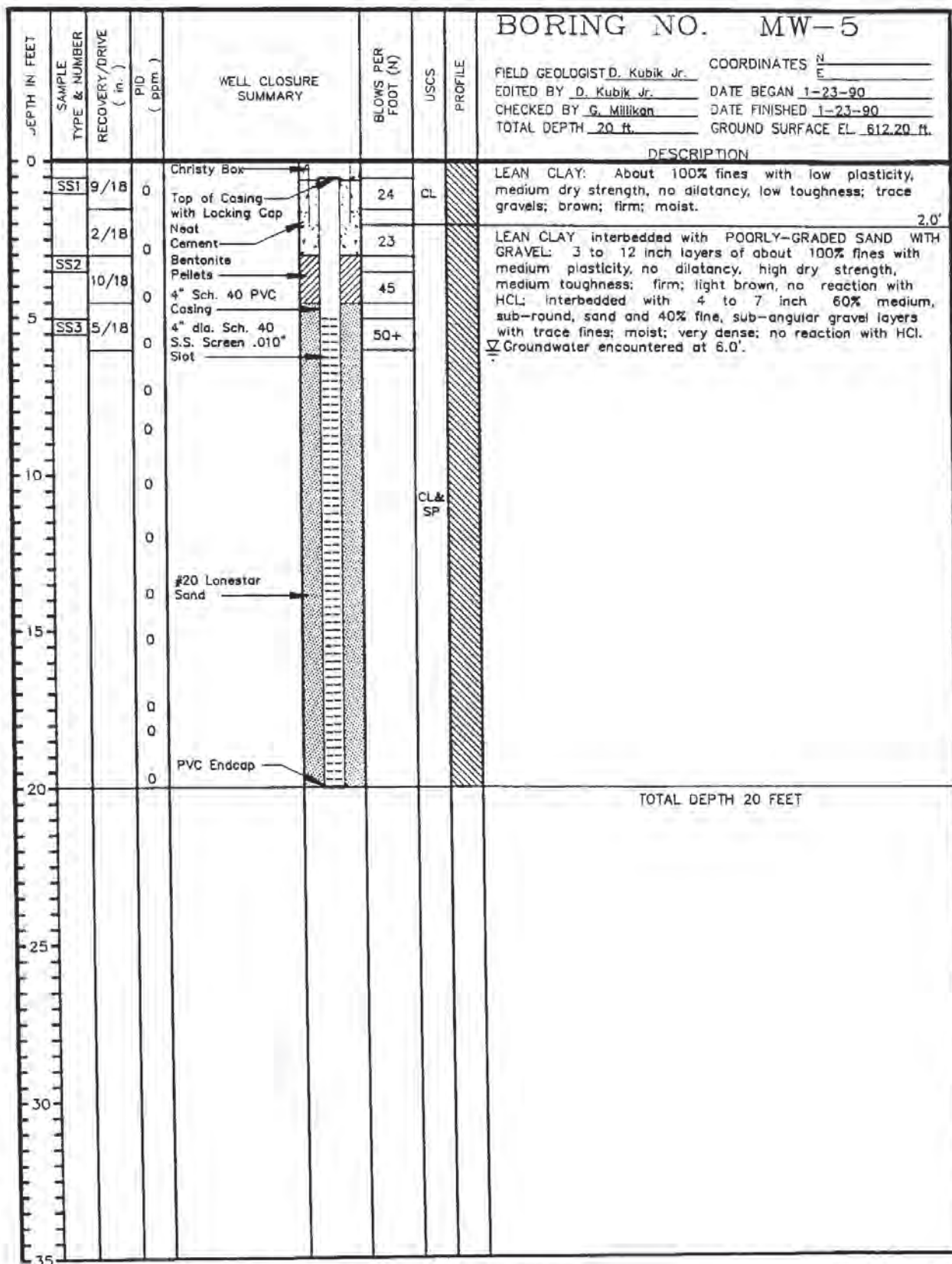


DRILLING CO.: Kvihaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNIT-4(*MAS1)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS



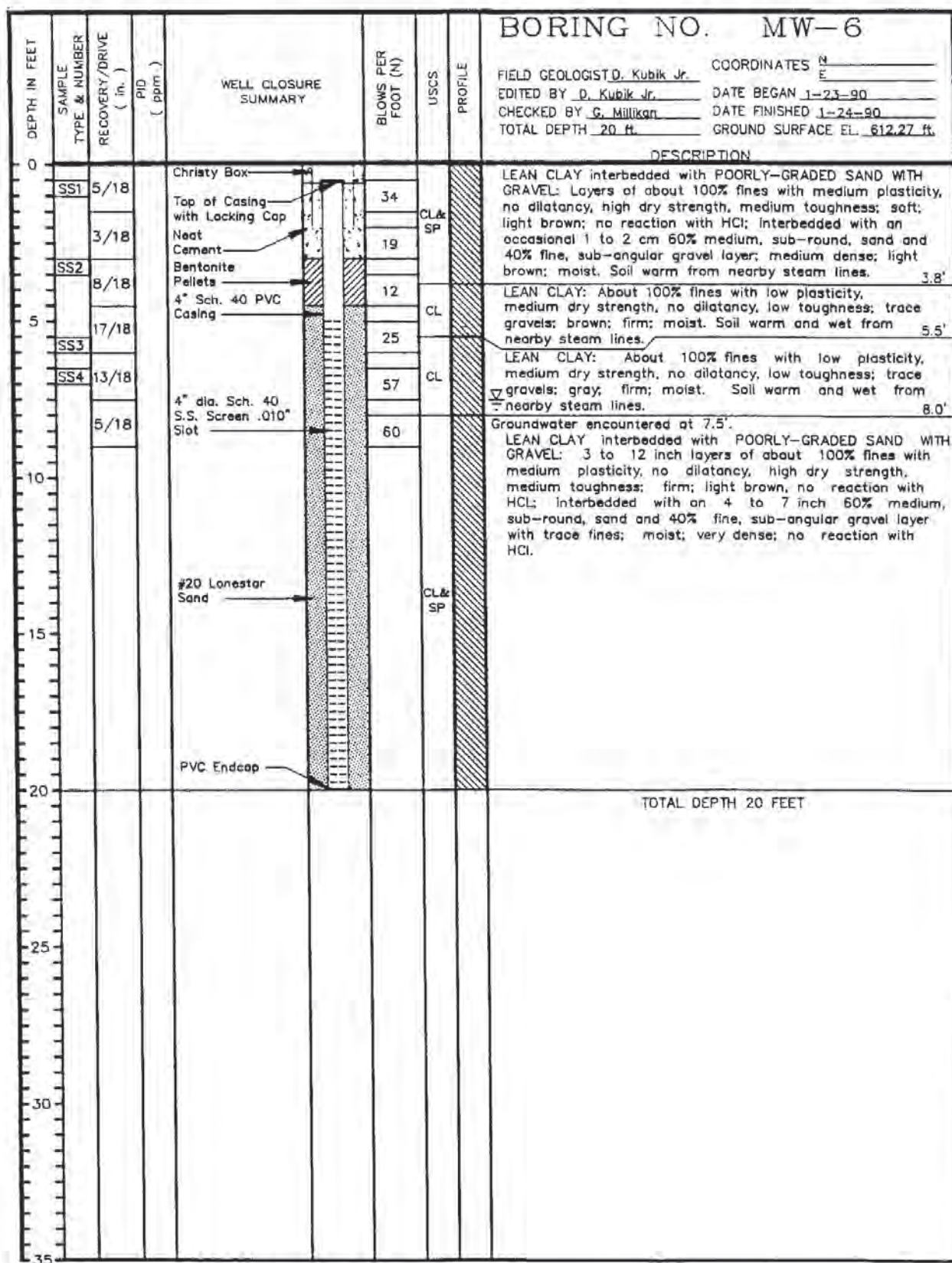


DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNIT-5(*MASI)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS





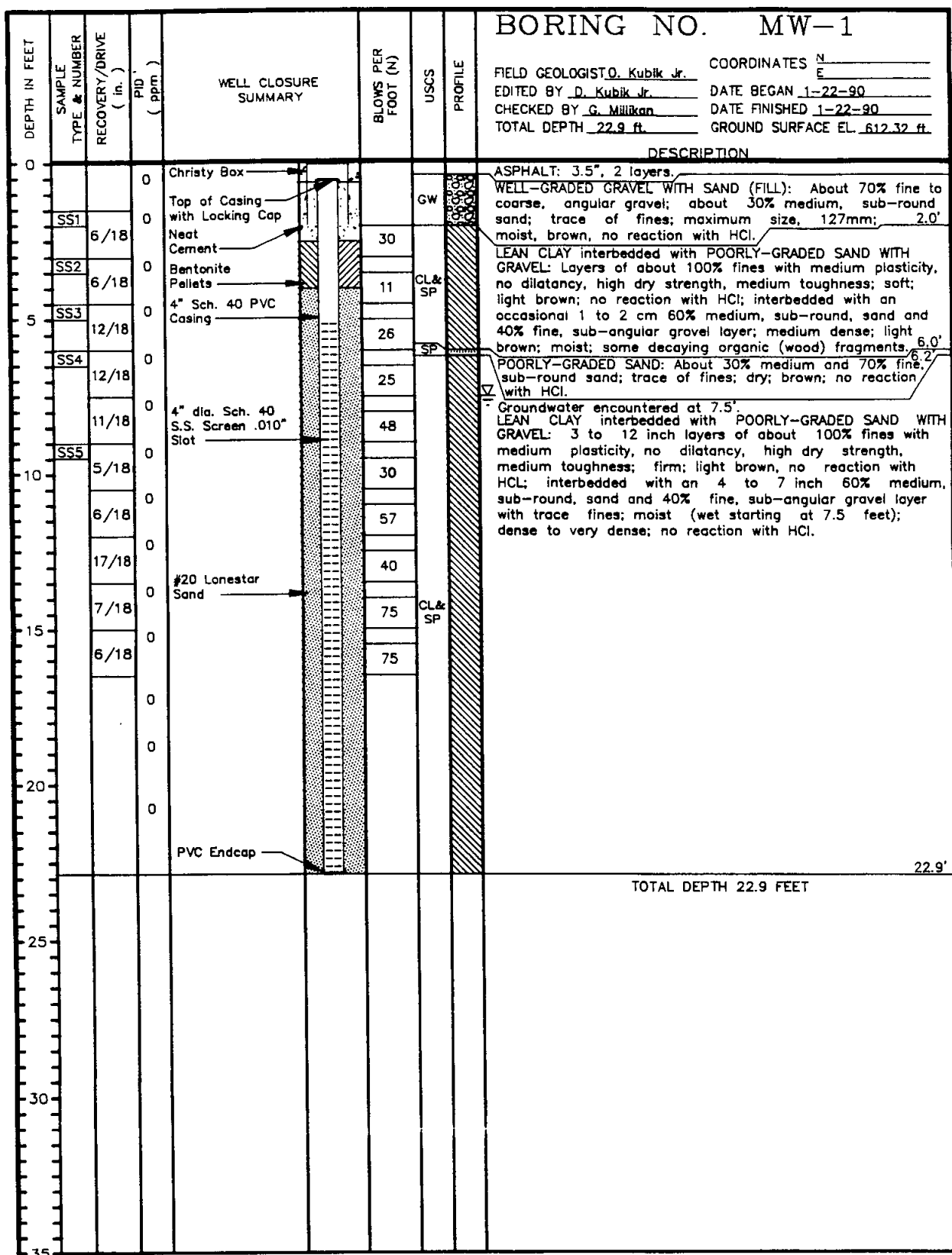
DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler

PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482

MASNT-6(MAS1)

PAGE 1 OF 1

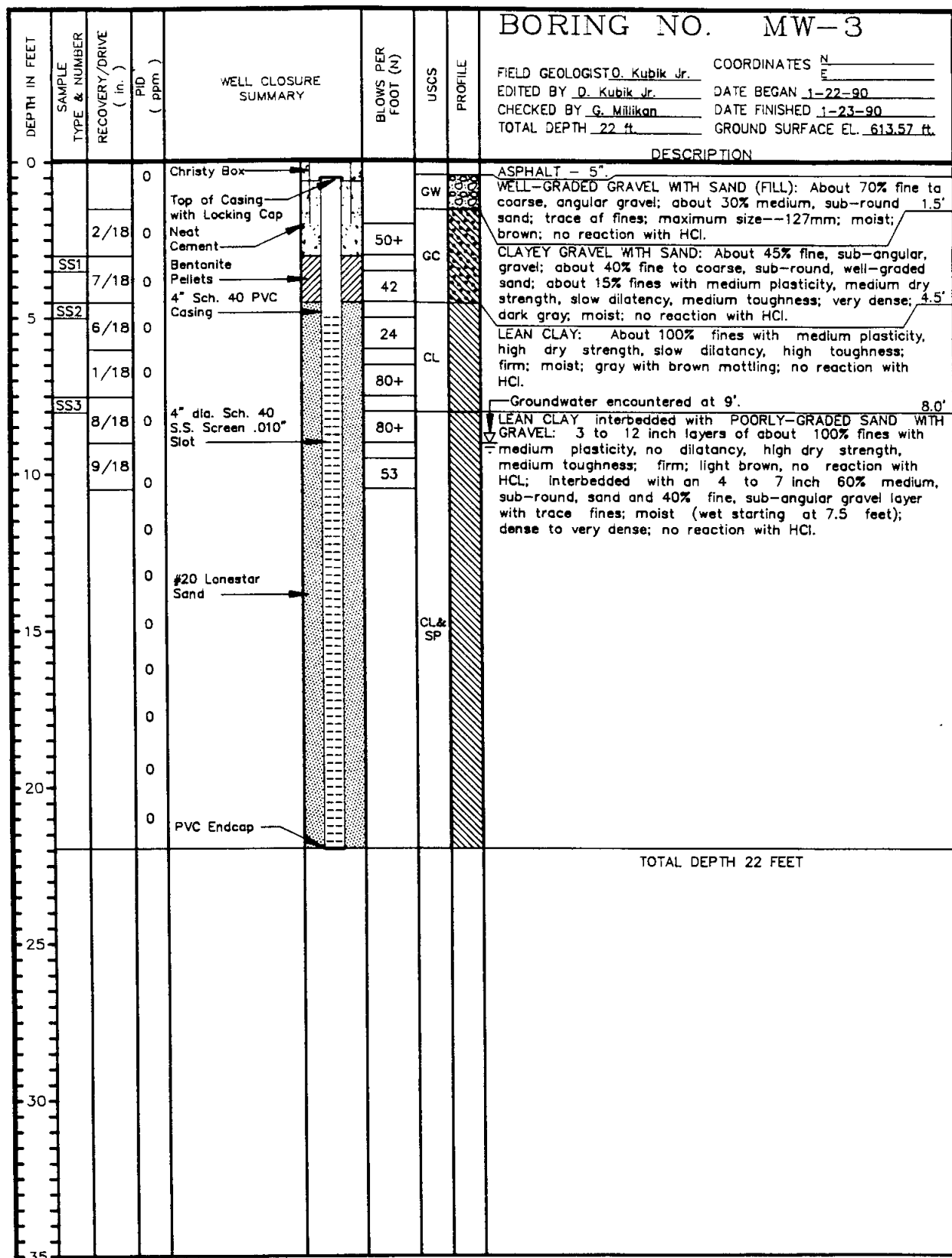
SEE LEGEND FOR EXPLANATION
 OF SYMBOLS AND TERMS



DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNT-1(MAS1)

PAGE 1 OF 1

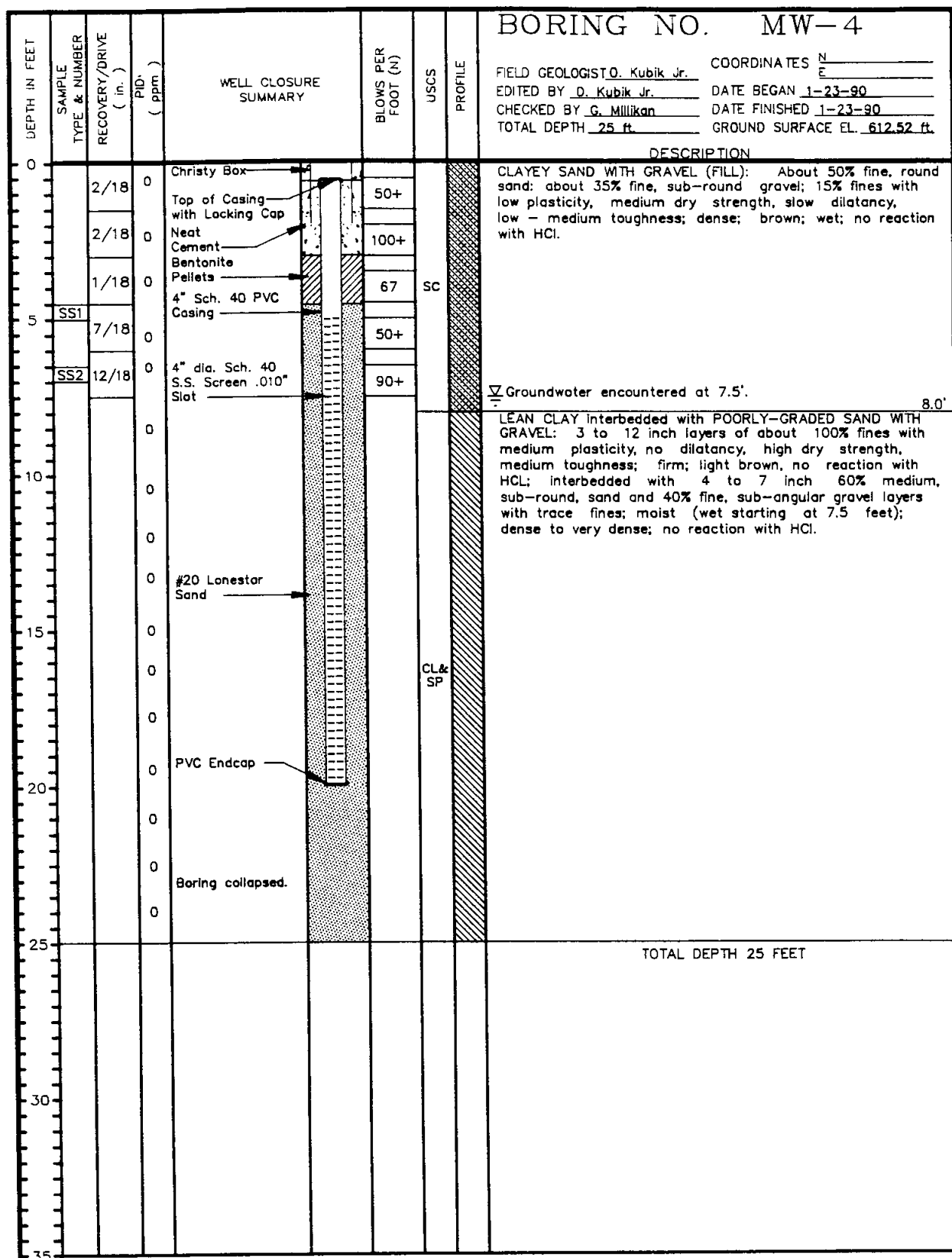
IT INTERNATIONAL
TECHNOLOGY
CORPORATION



DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNIT-3(MAS1)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS



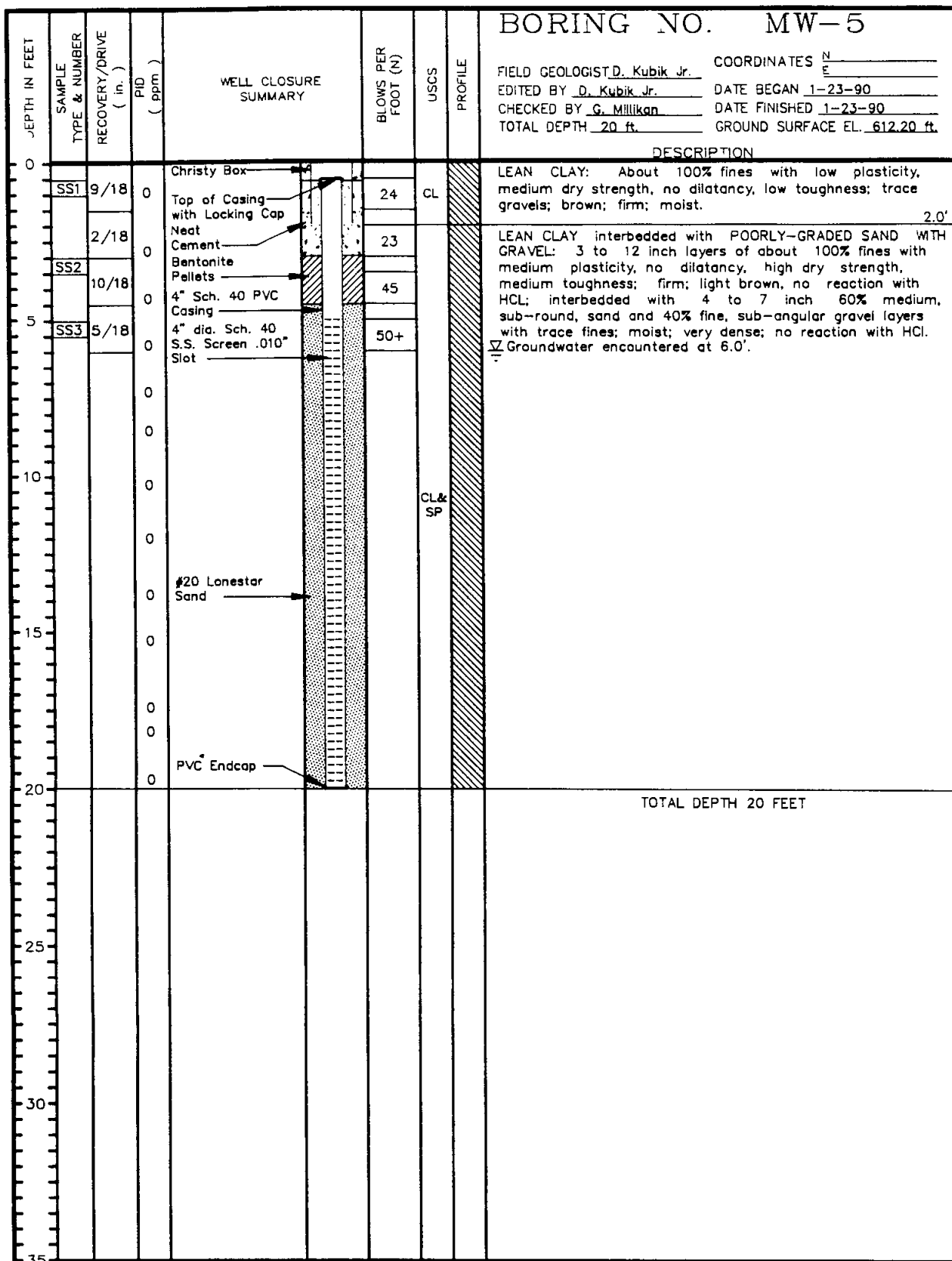
DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNT-4(*MAS1)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS



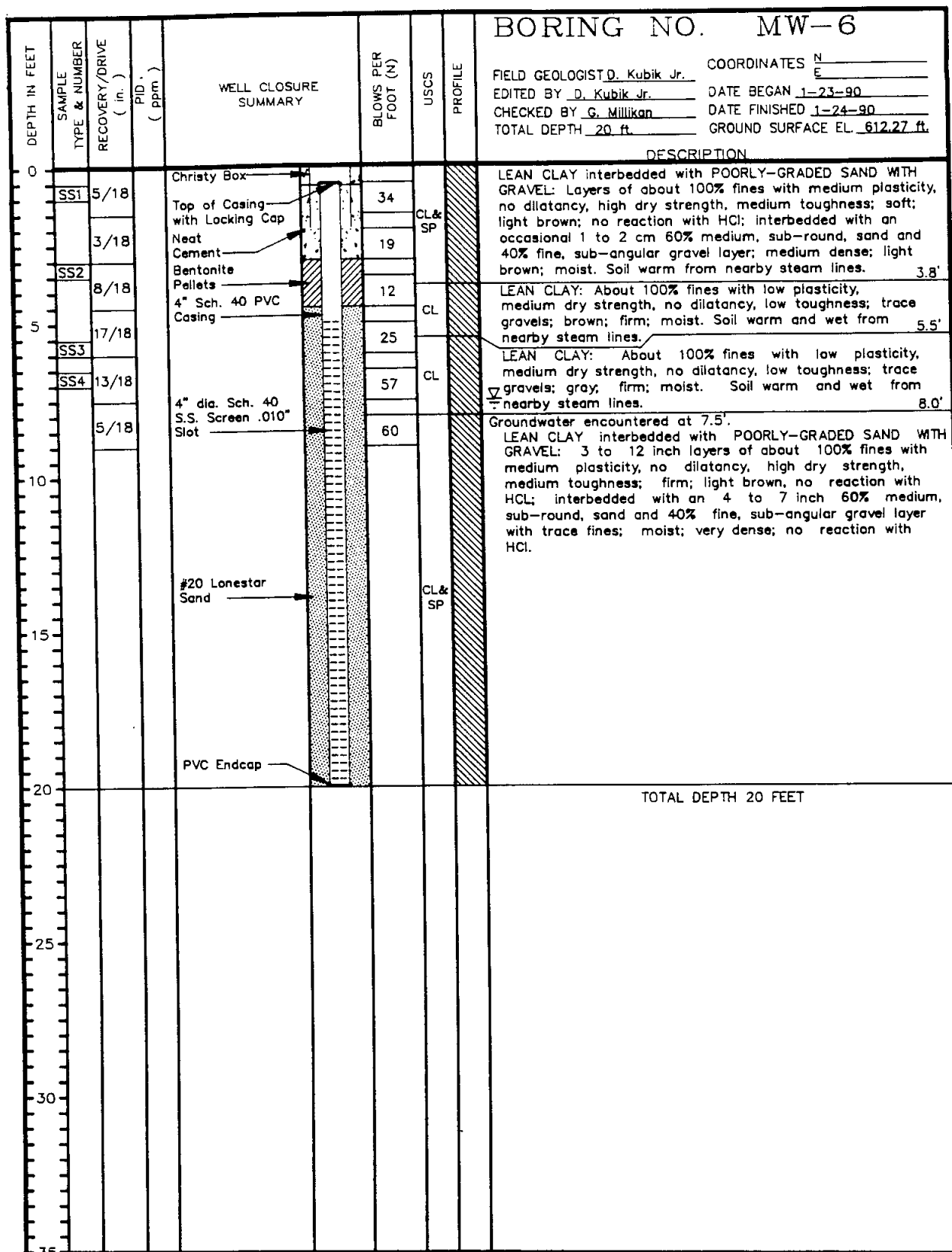
INTERNATIONAL
TECHNOLOGY
CORPORATION



DRILLING CO.: Kvihaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNIT-5(*MAS1)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS



DRILLING CO.: Kvilhaug Well Drilling & Pump Company
 DRILL METHOD: Hollow Stem Auger; Mobile B-61
 SAMPLING METHOD: Split Spoon (SS) Sampler
 PROJECT NO.: 148001
 CLIENT: Masonite Corporation
 LOCATION: 300 Ford Road
 Ukiah, California, 95482
 MASNIT-6(MAS1)

PAGE 1 OF 1

SEE LEGEND FOR EXPLANATION OF SYMBOLS AND TERMS

ATTACHMENT 1
BORING LOGS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-14/HP-1

Sheet 1 of 1

Date(s) Drilled and Installed	9/18/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	20 feet
Sampling Method	4" x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	612.40
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite Chips	Location	6 ft west of former spline-siding line		

Depth, feet	SAMPLES				Graphic Log	USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	OVM (ppm)					
0							Concrete		-Locking flush mount monument
							Gravelly SAND		
				0			Brown, clayey SILT with some fibrous wood debris (moist)		
5	SB-14-4						As above, slightly more clay		
							Gray/brown, gravelly SAND with clay and silt, moist		
							Slightly more silt and clay from 7'-8'		
10	SB-14-12			0			Increasing clay (moist) at 12'		
15	SB-14-15.3			0			Orange-brown, gravelly, fine to medium SAND (medium dense) (wet) (very slight sweet chlorine odor in saturated soil)	16 ft▼	
20							Boring was completed to 20' bgs. Groundwater was encountered at 16' bgs. Boring was completed as monitoring well.		
25									

ENV_SEA_WELL_2.T:\NEWORLD\0202036-1\IP-MASON.GPJ URSSEA3.GLB URSSEA3.GDT 1/13/03

URS

Project: TCA Plume Investigation

Project Location: IP/Masonite, Ukiah, California

Project Number: 33755114

Log of Boring SB-15

Sheet 1 of 1

Date(s) Drilled and Installed	9/18/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	20 feet
Sampling Method	4' x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	611.83
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill		Location	-40 ft west of spline line		

Depth, feet	SAMPLES				USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	QVM (ppm)				
0				0		Gray-brown, sandy GRAVEL with fine to medium sand (dense) (dry)		-Locking flush mount monument
1								
5		2		0		Brown, clayey SILT with gravel, some fibrous wood material (soft) (dry)		
10		3		0		Gray, gravelly SAND with little clay, silt (dense) (dry)		
15		4		0		Same as above, Less fines (increasing density)		
20		5				Boring was completed to 20' bgs. Groundwater was encountered at 14' bgs. Boring was completed as monitoring well.		
25								

ENV_SEA_WELL_2 T:\ONEWORLD\93836-1\IP-MASON.GPJ URSSEA2.GLB URSSEA3.GDT 1/13/03

URS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-16

Sheet 1 of 1

Date(s) Drilled and Installed	9/19/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	16 feet
Sampling Method	4" x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	607.91
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite	Location	420 ft northeast of spline line		

Depth, feet	SAMPLES				USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	QVM (ppm)				
0						Asphalt GRAVEL base Gray-brown silty SAND with fine gravel (loose) (dry)		-Locking flush mount monument
1			0					
5		2				Brown, clayey SILT with little fine to coarse sand (medium stiff) (damp)		
10		3	0			Same as above, mottled red/brown, coarsening gravel with silty clay (moist)		
15		4	0			Gray silty, fine to coarse SAND with some clay (loose) (wet)		13 ft▼
25						Boring was completed to 16' bgs. Groundwater was encountered at 13' bgs. Boring was completed as monitoring well.		

ENV_SEA_WELL_2 T:\ONEWORLD\33236-1\IP-MASONITE\URSEA3.GDT 1/13/03

URS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-17

Sheet 1 of 1

Date(s) Drilled and Installed	9/19/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	16 feet
Sampling Method	4' x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	608.35
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite	Location	375 ft east of spline line		

Depth, feet	SAMPLES				Graphic Log	USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	OVM (ppm)					
0							Asphalt GRAVEL base Brown, gravelly, sandy SILT (dense) (dry)		-Locking flush mound monument
1		1		0					
5		2		0			Brown, clayey SILT with little coarse sand (soft) (damp)		
10		3		0					
12							Mottled red/brown, silty, clayey, coarse SAND with little fine gravel (medium dense) (wet)	12 ft	
15		4		0					
16							Boring was completed to 16' bgs. Groundwater was encountered at 12' bgs. Boring was completed as monitoring well.		
20									
25									

ENV_SEA_WELL_2_T:\ONEWORLD\333C26-1\IP\MASON\GPJ_URSSEA3.GLB_URSSEA3.GOT 1/13/03

URS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-18

Sheet 1 of 1

Date(s) Drilled and Installed	9/18/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	16 feet
Sampling Method	4' x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	606.75
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite	Location	600 ft northeast of spline line		

Depth, feet	SAMPLES				Graphic Log	USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	OVM (ppm)					
0							Brown, sandy SILT/silty SAND (hard) (dry)		-Locking flush mount monument
1		1		0					
5		2		0			Brown and gray layered, silty SAND with fine gravel (dense) (damp to dry) Coarsening downward		
10		3		0					
11							Slightly more silty layer at 11'-12'		
12									
15		4		0					
16							Reddish-brown, silty CLAY (medium stiff) (damp) at 16' Boring was completed to 16' bgs. Groundwater was encountered at 6' bgs. Boring was completed as monitoring well.		
20									
25									

ENV_SEA_WELL_2 T:\ONEWORLD\333038-1\IP-MASON\GPJ_URSSEA3.GLB URSSEA3.GDT 1/13/03

URS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-19

Sheet 1 of 1

Date(s) Drilled and Installed	9/18/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	16 feet
Sampling Method	4" x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	606.71
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite	Location	550 ft east of spline line		

Depth, feet	SAMPLES				USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	OVM (ppm)				
0						Brown, silty fine SAND (loose) (dry)		-Locking flush mount monument
1		1		0				
5		2				Gray, silty, medium to coarse SAND with little fine gravel (loose to medium dense) (moist)		
10		3		0		Same as above with gray/red and orange streaks just above water at 12' (no odor)		
12								
15		4		0				
						Red-brown CLAY with silt (moist)		Screen set 5" into clay
						Boring was completed to 16' bgs. Groundwater was encountered at 12' bgs. Boring was completed as monitoring well.		
20								
25								

ENV_SEA_WELL_2 T:\ONEWORLD\333C36-1\IP-MASON.GPJ URSSEA3.GLB URSSEA3.GDT 1/13/03

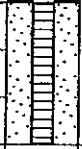
URS

Project: TCA Plume Investigation
 Project Location: IP/Masonite, Ukiah, California
 Project Number: 33755114

Log of Boring SB-20

Sheet 1 of 1

Date(s) Drilled and Installed	9/19/02	Logged By	Galen Davis	Checked By	
Drilling Method	Direct Push	Drilling Contractor	TEG	Total Depth of Borehole	16 feet
Sampling Method	4' x 1" split spoon w/PVC liner	Drill Bit Size/Type	2.5"	Top of Casing Elevation	606.66
Size and Type of Well Casing	1" PVC	Screen Perforation	0.010"	Surface Elevation	
Seal or Backfill	Bentonite	Location	600 ft southeast of spline line		

Depth, feet	SAMPLES				USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
	Type	Number	Blows/ 6in.	QVM (ppm)				
0						Gray, sandy SILT (soft) (dry)		-Locking flush mount monument
1		1		0				
5		2		0				
10		3		0		Gray, silty, medium to coarse SAND with little fine gravel (medium dense) (wet)		
						Same as above, increasing silt/clay to bottom of boring	12 ft	
15		4		0				
						Boring was completed to 16' bgs. Groundwater was encountered at 12' bgs. Boring was completed as monitoring well.		
20								
25								

ENV_SEA_WELL_2 T:\ONEWORLD\333036-1\IP-MASON\GPJ_URSSEA3.GLB URSSEA3.GDT 1/13/03

URS

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%		ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity	
			CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays	
			OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silt and Clay Liquid Limit Greater than 50%		MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts	
			CH	Inorganic Clays of High Plasticity, Fat Clays	
			OH	Organic Clays of Medium to High Plasticity	
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	

Soil sample submitted for chemical analysis

Soil sample examined for soil classification

Sampler Type

CMSS = CA Modified Split Spoon

GRAB = Grab Sample

HA = Hand Auger

SPT = Standard Penetration Test

Initial Static Water Level

First Identified Free Water

SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.00	Figure: Appendix A A-1 1 of 1
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Date (start, end): 4/8/04 - 4/8/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 09:05 - 17:50

MUF-A01-01

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ If no, boring backfilled with:

Driller's Name: Chris Herrell

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 8.5 Total Depth, ft: 10.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Refusal with 7" HSA at 5', switched to 8" solid stem auger to drill concrete; switched back to 7" HSA to drill to total depth.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5							CONCRETE: over base rock.
								611.5	1						
X	4	5	CMSS												SAND with Gravel (SW): dark brown, fine to coarse grained sand and fine gravel, moist, (FILL).
X	6	6							2		30	40	20	10	
X	16	16									30	40	20	10	
									3						
									4						
									5		40	40	10	10	
X	6	25	CMSS			No	No				40	40	10	10	
X	6	50/6"									40	40	10	10	
								607.0	6						CONCRETE
								606.0	7						GRAVEL BASE.
								605.0	8						GRAVEL with Silt and Sand (GW-GM): fine and coarse gravel, fine to coarse grained sand, wet.
X	6	13	CMSS								40	30	20	10	
X	6	17							9		40	30	20	10	
X	6	22							10		40	30	20	10	
								603.0	10						
									11						TOTAL DEPTH = 10.0 FEET

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3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769**BORING LOG MUF-A01-01**Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A01-01

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 06/01/04

Date (start, end): 4/8/04 - 4/8/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 13:10 - 14:55

MUF-A01-02

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Chris Herrell

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
															GRAVEL BASE.
								611.6	1						
									2		T	10	40	50	CLAY (CL): brown to greenish gray, fine to medium grained sand, trace fine gravel, moist to wet.
									3		T	10	40	50	
								609.0	4						CLAY with Sand (CL): dark to gray to brown, fine to medium grained sand, moist to wet.
									5						
									6		5	25	30	40	
									7		5	25	30	40	
								605.0	8						GRAVEL with Sand (GW): gray to brown, fine to coarse grained sand, fine and coarse grained sand, wet.
									9						
									10						
									11		50	40	10	T	
								601.5	12		50	40	10	T	
															TOTAL DEPTH = 11.5 FEET

SCS ENGINEERS

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BORING LOG MUF-A01-02

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A01-02

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 06/01/04

Date (start, end): 4/14/04 - 4/14/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 14:20 - 14:50

MUF-A01-03

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5							CONCRETE: over base rock.
								611.5	1						
									2		50	30	20		GRAVEL with Sand (GP): dark grayish brown, fine gravel, fine to coarse grained sand, moist, (FILL?).
									3		50	30	20		
								609.0	4						CLAY (CL): brown mottled with yellowish brown, trace fine and coarse gravel, moist.
									5						
						No	No		6		T	5	35	60	
									7						
									8						
									9						
								603.0	10		40	10	20	30	GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
									11		40	30	20	10	
								601.5	12		40	30	20	10	
															TOTAL DEPTH = 11.5 FEET

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300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A01-03

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

Date (start, end): 3/31/04 - 3/31/04 Boring No. MUF-A01-04 Boring Location: See site map
 Drilling Time (start, end) 16:45 - 12:15
 Logged By: Stephen Knüttel
 Checked By: See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc. MW Installed: Y ☐ N ☒ if no, boring backfilled with:
 Driller's Name: Pablo Gonzales Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
 Drilling Method: 4-in Solid-Stem Auger Auger Depth, ft: 10.0 Total Depth, ft: 11.5
 Sampling Method: CMSS
 Hammer weight / fall: 140 lbs / 30 inch
 Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							GRAVEL BASE
								611.5	1						
									2		10	30	40	20	
									3		5	30	50	15	
									4		T	30	50	20	
								609.0	5						
									6		T	60	30	10	
									7		T	60	30	10	
									8		T	60	30	10	
								605.5	9						
									10		40	30	20	10	
									11		40	30	20	10	
								601.5	12		40	30	20	10	
TOTAL DEPTH = 11.5 FEET															

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 06/01/04

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BORING LOG MUF-A01-04

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A01-04

1 of 1

Date (start, end): 3/31/04 - 3/31/04
 Drilling Time (start, end) 16:10 - 16:40
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-A01-05**

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 4-in Solid-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.6	1						ASPHALT: over base rock.
								611.5	2		30	50	20		SANDY SILT (ML): brown, moist.
								610.5	3		30	50	20		
									4		30	30	40		SANDY CLAY (CL): greenish gray, very fine to fine grained sand, moist.
								608.5	5		T	40	50	10	
						No	No		6		5	40	45	10	SANDY SILT (ML): brown, very fine to fine grained sand, moist to wet, increasing gravel content with depth.
									7		10	35	45	10	
								604.5	8						
									9						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
									10		40	30	20	10	
									11		40	30	20	10	
								601.5	12		40	30	20	10	
TOTAL DEPTH = 11.5 FEET															

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A01-05

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A01-05

1 of 1

Boring Location: See site map

Drilling Time (start, end) 11:40 - 15:50

MUF-A02-01

Logged By: Stephen Knüttel

Checked By:

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

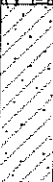
Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:					
			CMSS			↑	↑	613.0							CONCRETE .					
✕	6	9												1					CLAY with Sand (CL): brown, fine to coarse grained sand, minor gravel, moist.	
■	6	19											611.2	2						
✕	6	19							3		10	20	20	50						
			CMSS	▽		No	No	607.8	4		10	20	20	50	GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.					
✕	6	22												5			10	20	20	50
■	6	18												6						
✕	6	17	CMSS	NR		↓	↓	601.5	7		40	30	20	10	TOTAL DEPTH = 11.5 FEET					
														8			40	30	20	10
														9			40	30	20	10
			CMSS						10											
✕	6													11						
✕	6													12						

SCS ENGINEERS

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Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A02-01

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A02-01

1 of 1

66CS-SANTA ROSA BORING LOG D1203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Date (start, end): 4/14/04 - 4/14/04
 Drilling Time (start, end) 15:10 - 15:40
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-A02-02**

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 4-in Solid-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5							ASPHALT: over base rock.
					NR			611.8	1						
	5	7	CMSS												
	6	8										5	45	50	CLAY (CL): brown, minor very fine to fine grained sand, moist to wet.
	6	9							2			5	45	50	
									3						
								609.0	4						CLAY with Gravel (CL): brown, very fine to fine grained sand, fine gravel, moist.
					NR				5						
	6	7	CMSS								10	10	30	50	
	6	9				No	No		6		10	10	30	50	
	6	16							7		10	10	30	50	
									8						
					1			604.5	9						GRAVEL with Silt and Sand (GW-GM): fine and coarse gravel, fine to coarse grained sand, wet.
									10		40	30	20	10	
	6	16	CMSS		NR				11		40	30	20	10	
	6	18						601.5	12		40	30	20	10	
															TOTAL DEPTH = 11.5 FEET

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

SCS ENGINEERS

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BORING LOG MUF-A02-02

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A02-02

1 of 1

Date (start, end): 4/14/04 - 4/14/04 Boring No. MUF-A02-03 Boring Location: See site map
 Drilling Time (start, end) 15:55 - 16:40
 Logged By: Stephen Knüttel
 Checked By: See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc. MW Installed: Y ☐ N ☒ if no, boring backfilled with:
 Driller's Name: Pablo Gonzales Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
 Drilling Method: 7-in Hollow-Stem Auger Auger Depth, ft: 10.0 Total Depth, ft: 11.5
 Sampling Method: CMSS Hammer weight / fall: 140 lbs / 30 inch Temp. Screen (interval / dia. / slot): 0-10 ft. / 2 in. / 0.01 in.

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5							CONCRETE: over base rock.
								612.0	1						
X	6	4	CMSS		NR						T	30	20	50	SANDY CLAY (CL): dark greenish gray, trace fine and coarse gravel, moist to wet.
X	6	4									T	30	20	50	
	6	16							2		T	30	20	50	
									3						
								609.5							GRAVELLY CLAY (CL): dark greenish gray, fine and coarse gravel, moist to wet.
									4						
									5		30	15	15	40	
X	6	10	CMSS		NR										
X	6	30				No	No	607.5							GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
	6	40							6		40	30	20	10	
									7						
									8						
									9						
									10						
X	0	25	CMSS		NR						40	30	20	10	
X	0	20													
X	4	41						601.5	11						
									12						TOTAL DEPTH = 11.5 FEET

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BORING LOG MUF-A02-03

Former Masonite Facility
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 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A02-03

1 of 1

Date (start, end): 4/16/04 - 4/16/04	Boring No. MUF-A02-04	Boring Location: See site map
Drilling Time (start, end) 09:25 - 09:50		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Driller's Name: Pablo Gonzales		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
Drilling Method: 7-in Hollow-Stem Auger		Auger Depth, ft: 10.5 Total Depth, ft: 10.5
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes: Drilled without sampling to collect water sample; hole logged from cuttings.		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5							CONCRETE: over base rock.
								612.0	1						GRAVELLY CLAY (CL): dark greenish gray, moist.
									2						
									3						
								609.5	4						SANDY CLAY (CL): dark greenish gray, moist.
									5						
									6						
								606.0	7						GRAVEL with Silt and Sand (GW-GM): brown to dark greenish gray, moist to wet.
									8						
									9						
									10						
								602.5	11						
															TOTAL DEPTH = 10.5 FEET

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BORING LOG MUF-A02-04

Former Masonite Facility
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Job Number: 01203377.00

Figure:

Appendix A
MUF-A02-04

1 of 1

Date (start, end): 4/16/04 - 4/16/04	Boring No. MUF-A02-05	Boring Location: See site map
Drilling Time (start, end) 08:30 - 09:15		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Driller's Name: Pablo Gonzales		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
Drilling Method: 4-in Solid-Stem Auger		Auger Depth, ft: 10.0 Total Depth, ft: 11.5
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:			
			CMSS	V	0	↑	↑	613.0										
										612.6								ASPHALT: over base rock.
⊗	6	18								612.0	1		20	50	20	10	SILTY SAND with Gravel (SM): brown, fine and coarse gravel, fine to coarse grained sand, moist, (FILL?).	
■	6	18									20	50	20	10				
⊗	6	15							2		20	50	20	10				
			CMSS						610.0	3						SANDY CLAY (CL): brown, fine to medium grained sand, moist.		
										4								
⊗	6	11								5			30	20	50			
■	6	17					No	No	607.5	6			50	30	20	SILTY SAND (SM): brown, fine to medium grained sand, moist.		
⊗	6	20				0				7			50	30	20			
			CMSS							8						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.		
								604.5	9									
⊗	6	30							10		40	30	20	10				
■	6	20							11		40	30	20	10				
⊗	6	20			0	↓	↓	601.5			40	30	20	10				
									12						TOTAL DEPTH = 11.5 FEET			

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BORING LOG MUF-A02-05

Former Masonite Facility
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 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A02-05

1 of 1

Date (start, end): 4/13/04 - 4/13/04 Boring No. MUF-A02-06 Boring Location: See site map
 Drilling Time (start, end) 11:20 - 12:30
 Logged By: Stephen Knüttel
 Checked By: See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc. MW Installed: Y ☐ N ☒ if no, boring backfilled with:
 Driller's Name: Pablo Gonzales Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
 Drilling Method: 4-in Solid-Stem Auger Auger Depth, ft: 20.0 Total Depth, ft: 20.0
 Sampling Method: CMSS Temp. Screen (interval / dia. / slot): 0-20 ft. / 2 in. / 0.01 in.
 Hammer weight / fall: 140 lbs / 30 inch
 Notes: Drilled to 15' - ND Ground Water; drilled to 20' - hole started to show water at ~ 16.0'.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.8							ASPHALT: over base rock.
								612.0	1						CLAY with Sand (CL): brown, very fine to fine grained sand, moist.
	3	9	CMSS		0				2		10	40	50		
	6	6							3		10	40	50		
	6	8							4						
								608.5	5		40	30	20	10	GRAVEL with Silt and Sand (GW-GM): fine and coarse gravel, medium to coarse grained sand, moist.
	6	10	CMSS		0	No	No		6		40	30	20	10	
	6	16							7		40	30	20	10	
	6	20							8		40	30	20	10	
								604.0	9						SILTY SAND (SM): brown to reddish brown, medium to coarse grained sand, moist to wet, clayey.
									10		10	50	20	20	
	6	10	CMSS		0				11		10	50	20	20	
	6	12									10	50	20	20	
	6	34									10	50	20	20	

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A02-06

Former Masonite Facility
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 Job Number: 01203377.00

Figure:
 Appendix A
 MUF-A02-06
 1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
				17		No	No	599.5	13						
									14						
									15						
									16						
									17						
									18						
									19						
									20						
								593.0	21						
									22						
									23						
									24						
									25						
									26						
									27						
TOTAL DEPTH = 20.0 FEET															

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BORING LOG MUF-A02-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A02-06

2 of 2

Date (start, end): 4/15/04 - 4/15/04
 Drilling Time (start, end) 10:05 - 10:50
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-A03-01**

Boring Location: See site map

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Chris Herrell

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Dry at time of drilling.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
								614.5							
								613.5	1						CONCRETE: over base rock.
									2		5	45	50		CLAY (CL): gray changing to brown mottled with yellowish brown, moist.
									3			50	50		
									4			40	60		
									5			30	70		
									6			30	70		SANDY SILT (ML): brown mottled with yellowish brown, very fine to fine grained sand, moist to wet.
									7						
									8						
									9						
									10			40	60		TOTAL DEPTH = 11.5 FEET
									11		30	40	30		
									12						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A03-01

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A03-01

1 of 1

Date (start, end): 4/15/04 - 4/15/04 Boring No. MUF-A03-02 Boring Location: See site map
 Drilling Time (start, end) 09:00 - 09:45
 Logged By: Stephen Knüttel
 Checked By: See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc. MW Installed: Y ☐ N ☒ if no, boring backfilled with:
 Driller's Name: Chris Herrell Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
 Drilling Method: 8-in Hollow-Stem Auger Auger Depth, ft: 10.0 Total Depth, ft: 11.5
 Sampling Method: CMSS
 Hammer weight / fall: 140 lbs / 30 inch
 Notes: Dry at time of drilling.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
								614.5							
								613.5	1						CONCRETE: over base rock.
									2		5	45	50		CLAY (CL): gray changing to brown mottled, very fine grained sand, moist.
											5	45	50		
									3				50	50	
									4						
									5						
					0				6						
						No	No		7						
									8						
									9						
									10						
									11						
									12						
								603.5							
															TOTAL DEPTH = 11.5 FEET

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A03-02

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:
 Appendix A
 MUF-A03-02
 1 of 1

Date (start, end): 3/31/04 - 3/31/04
 Drilling Time (start, end) 10:20
 Logged By: Stephen Knüttel
 Checked By:

Boring No.
MUF-A03-03

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Temp. Screen (interval / dia. / slot): 0-10 ft. / 2 in. / 0.01 in.

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
								614.3	1						CONCRETE: over base rock.
								613.5	2						FILL: pea gravel.
									3						
								611.0	4						CLAY (CL): gray to brown, minor very fine to fine grained sand, moist to wet.
									5				35	65	
						No	No		6				35	65	
					0				7		10	40	50		
									8						
									9						
									10				50	50	
								604.5	11		30	40	30		SANDY SILT (ML): gray to brown, very fine to fine grained sand, moist to wet.
					0			603.5	12		30	40	30		
TOTAL DEPTH = 11.5 FEET															

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BORING LOG MUF-A03-03

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A03-03

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Date (start, end): 3/30/04 - 3/30/04
 Drilling Time (start, end) 16:00 - 16:45
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-A03-04**

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 4-in Solid-Stem Auger

Auger Depth, ft: 11.5 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Perched water at 2.0'; hole located near leaking fire system line.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							GRAVEL BASE
	6	1	CMSS	1.8	1.8	No		611.8	1						CLAY with Sand (CL): very dark gray, minor very fine to fine grained sand, wet, organic odor.
	6	1							2		15	35	50		
	6	2									15	35	50		
			CMSS			?		609.0	3						CLAY (CL): brown mottled with yellowish brown, moist.
	6	5							4						
	6	8							5						
	6	16	CMSS			No		604.5	6						GRAVEL with Silt and Sand (GW-GM): reddish brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
									7						
									8						
	0	18	CMSS					601.5	9		50	20	30		
	0	30							10		50	20	30		
	4	30							11		50	20	30		
									12						TOTAL DEPTH = 11.5 FEET

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BORING LOG MUF-A03-04

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A03-04

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Date (start, end): 3/30/04 - 3/30/04	Boring No. MUF-A03-05	Boring Location: See site map
Drilling Time (start, end) 17:00		See Unified Soil Classification System (USCS) for Legend and information not noted.
Logged By: Stephen Knüttel		
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		
Driller's Name: Pablo Gonzales		MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Drilling Method: 4-in Solid-Stem Auger		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
Sampling Method: CMSS		Auger Depth, ft: 11.5 Total Depth, ft: 11.5
Hammer weight / fall: 140 lbs / 30 inch		
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:		
			CMSS			↑	↑	613.0							GRAVEL BASE		
	0	1						612.0	1								SANDY SILT with Gravel (ML): gray, moist to wet.
	3	2							2		15	30	40	15			
	6	2															
			CMSS			No	No	609.5	3						CLAY with Sand (CL): brown, very fine to fine grained sand, moist to wet.		
	0	5							4								
	6	6							5		15	35	50				
	6	8															
			CMSS						6		15	35	50				
									7								
									8								
	6	17						604.5	9						GRAVEL with Silt and Sand (GW-GM): reddish brown, fine gravel, fine to medium grained sand, moist to wet.		
	6	18							10		40	30	30				
	6	26							11		40	30	30				
								601.5	12		40	30	30				
															TOTAL DEPTH = 11.5 FEET		

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A03-05

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Figure:

Appendix A
 MUF-A03-05

1 of 1

Date (start, end): 3/30/04 - 3/30/04
 Drilling Time (start, end) 13:00 - 15:50
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-A03-06**

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 18.5 Total Depth, ft: 18.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.2							
								612.8							ASPHALT: over base rock.
								612.2	1						SANDY SILT (ML): very dark gray, moist.
X	0	5	CMSS		0				2		30	50	20		
X	0	5													
	4	5													
								609.7	3						
									4						CLAY (CL): brown mottled with reddish brown, moist.
									5						
X	0	9	CMSS			No	No		6		5	45	50		
X	4	10			0						5	45	50		
	6	25							7						
								605.2	8						GRAVEL with Silt and Sand (GW-GM): reddish brown, fine gravel, medium to coarse grained sand, moist to wet, silty.
									9		50	40	10		
X	6	13	CMSS								40	40	20		
X	6	17							10		40	40	20		
	6	28			0				11		40	40	20		

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BORING LOG MUF-A03-06

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A03-06

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.CDT 06/01/04

Date (start, end): 4/12/04 - 4/12/04 Boring No. MUF-A04-01
 Drilling Time (start, end) 15:55 - 16:25
 Logged By: Stephen Knüttel
 Checked By:

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.0	1						SAND AND GRAVEL BASE
								611.5							ASPHALT: (Fragments?)
									2						FILL: pea gravel, (sump excavation backfill)
									3						
								608.8	4						
									5						SANDY CLAY (CL): brown mottled with yellowish brown, fine to medium grained sand, moist.
									6						
									7						
									8						
									9						
								603.0	10						SAND with Gravel (SP): brown, medium grained sand, fine gravel, wet.
									11						
								601.8							CLAYEY GRAVEL (GC): dark greenish gray, fine and coarse gravel, wet.
								601.5							
									12						

TOTAL DEPTH = 11.5 FEET

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BORING LOG MUF-A04-01

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Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A04-01

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Date (start, end): 4/13/04 - 4/13/04 Drilling Time (start, end) 09:00 - 09:45 Logged By: Stephen Knüttel Checked By:	Boring No. MUF-A04-02	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: Clear Heart Drilling, Inc. Driller's Name: Pablo Gonzales Drilling Method: 7-in Hollow-Stem Auger Sampling Method: CMSS Hammer weight / fall: 140 lbs / 30 inch		MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: 10.0 Total Depth, ft: 11.5
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:		
								613.0									
			CMSS		0			612.5							CONCRETE: over base rock.		
									611.5	1							CLAY (CL): brown changing to gray, moist. Brown.
										2		5	45	50			
										5	45	50					
											5	45	50				
			CMSS		0			608.5									
									607.5	5	T	10	40	50		CLAY with Sand (CL): brown, fine to medium grained sand, moist to wet.	
							No	No		6	40	30	20	10		GRAVEL with Silt and Sand (GW-GM): fine and coarse gravel, fine to coarse grained sand, moist to wet.	
											40	30	20	10			
									</								

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A04-02

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 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A04-02

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

SCS ENGINEERS

BORING LOG MUF-A05-01

Figure:

1 of 1

Date (start, end): 3/31/04 - 3/31/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 08:30 - 09:00

MUF-A05-02

Logged By: Stephen Knüttel

Checked By:

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ If no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 4-in Solid-Stem Auger

Auger Depth, ft: 11.5 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PLD (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							GRAVEL: over base rock (near railroad tracks).
									1						
									2						
								609.0	3		T	25	25	50	CLAY with Sand (CL): brown, moist.
					0				4			15	35	50	
									5			15	35	50	
						No	No	606.0	6						SILTY SAND (SM): reddish brown, fine to medium grained sand, minor gravel.
									7			20	40	40	
					0			604.5	8			40	30	30	GRAVEL with Silt and Sand (GW-GM): reddish brown, fine gravel, fine to coarse grained sand, moist to wet.
									9						
									10			40	30	30	
									11			40	30	30	
								600.5	12			40	30	30	
TOTAL DEPTH = 11.5 FEET															

SCS ENGINEERS**BORING LOG MUF-A05-02**

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Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A05-02

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 06/01/04

Date (start, end): 4/15/04 - 4/15/04	Boring No. MUF-A05-03	Boring Location: See site map
Drilling Time (start, end) 11:15		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Driller's Name: Chris Herrell		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Drilling Method: 8-in Hollow-Stem Auger		Auger Depth, ft: 20.5 Total Depth, ft: 20.5
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								610.8							
								610.3							ASPHALT: over base rock.
								609.3	1						
									2						SAND with Gravel (SW): brown, fine to coarse grained sand, fine gravel, moist, (Fill?).
									3						
								606.8	4						CLAY (CL): brown, moist, silty.
									5						
								604.8	6						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

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SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS						13						
									14						
									15						
									16						
						No	No		17		50	30	10	10	
									18						
									19						
									20						
								590.3	21						TOTAL DEPTH = 20.5 FEET
									22						
									23						
									24						
									25						
									26						
									27						

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BORING LOG MUF-A05-03

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300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A05-03

2 of 2

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 05/01/04

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 05/01/04

1 of 1

Date (start, end): 4/2/04 - 4/2/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 12:40 - 13:15

MUF-A06-02

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzalez

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 7.0 Total Depth, ft: 8.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PI/D (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
								611.0	1						CONCRETE .
									2						GRAVEL with Sand (GP): dark gray, moist to wet, (Fill?).
								609.0	3						CLAYEY GRAVEL (GC): dark gray, fine gravel, moist to wet.
								607.8	4		50	10	10	30	GRAVEL with Silt and Sand (GW-GM): gray changing to brown at 4.7', fine gravel, fine to coarse grained sand.
									5						
									6						
									7						
									8		40	30	20	10	
								603.5							
									9						TOTAL DEPTH = 8.5 FEET
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

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BORING LOG MUF-A06-02

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Job Number: 01203377.00

Figure:

Appendix A
MUF-A06-02

1 of 1

Boring Location: See site map

Drilling Time (start, end) 11:30 - 12:35

MUF-A06-03

Logged By: Stephen Knüttel

Checked By:

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzalez

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Hole drilled to 10', sampler refusal, possible pipe; hole offset ~4' north for 2nd attempt.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS					613.0							GRAVEL BASE: (Pea gravel).
X	0	7							1						
X	0	5							2						
X	5	5							3		100				
									4						
X	0	2				No	No		5						
X	0	2							6		100				
X	3	2							7						
									8						
									9						
									10						
	0	24							11		100				
	6	12						602.0	12		40	30	20	10	GRAVEL with Silt and Sand (GW-GM): brown, fine gravel, fine to coarse grained sand, wet.
	6	18			0			601.5							TOTAL DEPTH = 11.5 FEET

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BORING LOG MUF-A06-03

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Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A06-03

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

Date (start, end): 4/2/04 - 4/2/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 15:15 - 17:30

MUF-A06-04

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Pablo Gonzalez

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 15.5 Total Depth, ft: 16.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Hole crooked from boulder at 3.5 ft. Offset and redrilled ~5' west.

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.5							
						No	No		1						GRAVEL BASE.
									2						Coarse gravel, to 3" dia. with sand and silt.
								609.7	3						SANDY CLAY (CL): dark gray, minor gravel, moist.
X	3	12	CMSS		0	Yes	?		4		10	20	30	40	
	6	17						608.5					30	70	CLAY (CL): brown, moist.
X	6	26											30	70	
									5						
									6						
									7						
								605.0	8						GRAVEL with Silt and Sand (GW-GM): brown to reddish brown, fine and coarse gravel, fine to coarse grained sand, wet.
						No	No		9						
									10						
X	0	10	CMSS		0						40	30	20	10	
	6	20													
X	6	38							11		40	30	20	10	

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BORING LOG MUF-A06-04

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A06-04

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

Date (start, end): 4/2/04 - 4/2/04	Boring No. MUF-A06-05	Boring Location: See site map
Drilling Time (start, end) 08:20 - 11:15		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Driller's Name: Pablo Gonzales		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Drilling Method: 8-in Hollow-Stem Auger		Auger Depth, ft: 15.5 Total Depth, ft: 16.5
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS		0	↑ No	↑ No	613.1							GRAVEL BASE.				
X	0	3						611.6				1							SAND with Gravel (SW): dark gray, fine to coarse grained sand and fine gravel, moist, (FILL?).
X	3	3									2								
	6	4																	
			CMSS		0	Yes	?	609.6							CLAYEY SAND (SC): gray, fine to medium grained sand, minor gravel, moist to wet.				
X	6	7								3									
	6	11								4									
X	6	11						607.4			10	50	20	20	GRAVEL with Silt and Sand (GW-GM): brown to reddish brown, fine gravel, fine to coarse grained sand, moist to wet.				
			CMSS		0	↑ No	↑ No				40	20	30	10	Wet.				
X	6	9																	
	6	20									50	20	20	10					
X	6	20									50	20	20	10					
											50	20	20	10					

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

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Date (start, end): 4/14/04 - 4/14/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 13:25 - 13:45

MUF-A07-01

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
									1						GRAVEL over base rock.
									2						
								609.5	3						SANDY CLAY (CL): greenish gray, very fine to fine grained sand, moist to wet.
									4						CLAY (CL): greenish gray, moist.
								608.3	5						
									6						Gray to greenish gray.
								605.5	7						SAND with Gravel (GP): brown, fine and coarse gravel, fine to coarse grained sand, moist.
									8						
								603.5	9						GRAVEL with Silt and Sand (GW-GM): brown to reddish brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
									10						
									11						Wet.
								600.5	12						
TOTAL DEPTH = 11.5 FEET															

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BORING LOG MUF-A07-01

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A07-01

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.D9.GPJ SCS-SANTA ROSA.GDT 05/16/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.2							
								611.7							
								610.7							
X	3	10	CMSS		0				1						CONCRETE: over base rock.
	6	11							2		5	35	60		
X	6	14							3		5	35	60		
			CMSS		0	No	No		4						CLAY (CL): dark greensih gray, minor very fine grained sand, moist.
									5						
									6						
X	6	4	CMSS		0	No	No		5	T	5	35	60		Brown mottled with light greenish gray.
	6	7							6		30	70			
X	6	9							7		30	70			
			CMSS		0				8						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
									9						
									10						
X	6	9	CMSS		0			602.2	11						
	6	22							12		40	30	20	10	
X	6	25							13		40	30	20	10	

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						No	No		13						
									14						
									15		40	30	20	10	
									16		40	30	20	10	
									17		40	30	20	10	
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

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BORING LOG MUF-A07-02

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:
 Appendix A
 MUF-A07-02
 2 of 2

Boring Location: See site map

Drilling Time (start, end) 09:34 - 10:33

MUF-A12-02

Logged By: Gary S. Johnson

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Rick Schneider

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 20.0 Total Depth, ft: 20.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Plug came off at 20'; left plug in hole. Can't sample @ 20' due to plug

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS		0	↑	↑	615.2	1						SAND and GRAVEL BASE: brown, with silt (Fill).				
×	2	7								613.2	2				20	80	CLAY (CL): dark gray, abundant wood chips.		
■	6	9									3				20	80			
×	6	9							4				20	80					
			CMSS		0	No	No		5						Brown with gray mottling.				
×	2	4											6					20	80
■	6	6											7					20	80
×	0	6							8										
			CMSS		0			605.5	9						SANDY SILT (ML): brown.				
×	6	9										605.1	10		5	50	45		SILTY SAND (SM): brown.
■	6	24										604.7	11		40	40	20		GRAVEL with Silt and Sand (GW-GM): brown.

65CS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 08/01/04

SCS ENGINEERS

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BORING LOG MUF-A12-02

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A12-02

1 of 2

Date (start, end): 3/31/04 - 3/31/04 Drilling Time (start, end) 12:00 - 12:47 Logged By: Gary S. Johnson Checked By:	Boring No. MUF-A12-04	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Rick Schneider</u> Drilling Method: <u>8-in Hollow-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>		MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>20.0</u> Total Depth, ft: <u>21.5</u>
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.5							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
									2						
								610.0	3			40	60		CLAY (CL): gray to brown, silty.
									4			40	60		
									5			40	60		
									6			40	60		
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SCS-SANTA ROSA BORING LOG 01203377.00 GP.J SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A12-04

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:
 Appendix A
 MUF-A12-04
 1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									13						
									14						
									15						
	6	11	CMSS	K	0	No	No	597.0	15		10	85	5		
	6	19							16		15	80	5		SAND (SW): brown.
	6	22							16		20	80	T		
									17						
									18						Variable gravel content.
									19						
									20		10	85	5		
	1	17	CMSS					592.0	20		10	85	5		
	6	30							21		45	50	5		SAND with Gravel (GW): brown.
	6	29							21		50	45	5		
								591.0	22						TOTAL DEPTH = 21.5 FEET
									23						
									24						
									25						
									26						
									27						

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BORING LOG MUF-A12-04

Former Masonite Facility
300 Ford Road
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Job Number: 01203377.00

Figure:

Appendix A
MUF-A12-04

2 of 2

Date (start, end): 3/31/04 - 3/31/04	Boring No. MUF-A12-05	Boring Location: See site map
Drilling Time (start, end) 15:07 - 15:39		
Logged By: Gary S. Johnson		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Driller's Name: Rick Schneider		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
Drilling Method: 4-in Solid-Stem Auger		Auger Depth, ft: 9.5 Total Depth, ft: 11.0
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes:		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
									2						CLAY (CL): brown, moist to wet, silty.
	6	3	CMSS												
	6	4													
	6	5			0				3			35	65		
									4						
	6	4	CMSS						5			10	90		Brown, root tracings, dry.
	6	9							6			10	90		
	6	14			0	No	No		7			10	90		
									8						
									9						
	4	10	CMSS					602.0	10		15	15	20	50	GRAVEL with Silt and Sand (GW-GM): gray.
	6	12									40	30	30		
	6	16			0			601.0	11		40	30	30		
															TOTAL DEPTH = 11.0 FEET

SCS-SANTA ROSA BORING LOG 01203377.00 GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A12-05

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Job Number: 01203377.00

Figure:

Appendix A
MUF-A12-05

1 of 1

Date (start, end): 3/31/04 - 3/31/04 Drilling Time (start, end) 16:01 - 16:22 Logged By: Gary S. Johnson Checked By:	Boring No. MUF-A12-06	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: Clear Heart Drilling, Inc. Driller's Name: Rick Schneider Drilling Method: 4-in Solid-Stem Auger Sampling Method: CMSS Hammer weight / fall: 140 lbs / 30 inch Notes:		MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: 9.5 Total Depth, ft: 11.0

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
									2						
								609.5	3			T	10	90	CLAY (CL): dark brown.
					0				4			T	10	90	
									5			T	10	90	
									6			T	15	85	
									7			T	15	85	
					0	No	No		8			T	15	85	Brown.
									9						
									10			T	30	70	
					0				11			T	30	70	Moist to wet.
								601.0							Gray with rust mottling.
															TOTAL DEPTH = 11.0 FEET

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

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BORING LOG MUF-A12-06

Former Masonite Facility
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 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A12-06

1 of 1

Date (start, end): 4/13/04 - 4/13/04 Boring No. MUF-A12-07
 Drilling Time (start, end) 15:00 - 16:30
 Logged By: Stephen Knüttel
 Checked By: See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc. MW Installed: Y ☒ N ☐ if no, boring backfilled with:
 Driller's Name: Pablo Gonzales Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
 Drilling Method: 8-in Hollow-Stem Auger Auger Depth, ft: 20.0 Total Depth, ft: 20.0
 Sampling Method: CMSS
 Hammer weight / fall: 140 lbs / 30 inch
 Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.6							
								611.6	1						GRAVEL BASE.
									2						FILL: ash, cinders, silty sand matrix, with roots.
									3						
									4						
									5						
									6						
									7						
									8						
									9						Abundant clinker material.
									10						
								602.3	11		50	20	10	20	CLAYEY GRAVEL (GC): dark greenish gray, fine and coarse gravel, fine to coarse grained sand, moist to wet.
											50	20	10	20	

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BORING LOG MUF-A12-07

Former Masonite Facility
 300 Ford Road
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 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A12-07

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Notes: Road fill ~2.5' above south field.

5SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									13						
								594.3	14						
X	6	7	CMSS	17	0	No	No		15		5	75	15	5	SAND with Silt (SP-SM): dark greenish gray, fine to medium grained sand, minor coarse grained sand and fine gravel, moist to wet. Wet.
	6	12							16		5	75	15	5	
X	6	40							16		5	75	15	5	
									17						
									18						
									19						
								587.8	20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						
TOTAL DEPTH = 20.0 FEET															

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BORING LOG MUF-A13-01

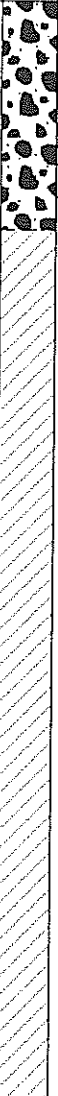
Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-01

2 of 2

Date (start, end): 4/15/04	Boring No. MUF-A13-02	Boring Location: See site map
Drilling Time (start, end) 15:30		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		
Drilling Contractor: Clear Heart Drilling, Inc.		MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Driller's Name: Chris Herrell		Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Drilling Method: 8-in Hollow-Stem Auger		Auger Depth, ft: 20.5 Total Depth, ft: 20.5
Sampling Method: CMSS		
Hammer weight / fall: 140 lbs / 30 inch		
Notes: Road fill ~2.5' above south field.		

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:		
			CMSS		0	▲	▲	606.0	1						GRAVEL and SAND : (Fill). ----- CLAY (CL): dark brown, moist.		
											2						
											3						
			CMSS					603.5	4								
									5								
									6		T	30	70				
						No	No		7		T	30	70				
									8								
									9								
									10								
									11								
					0							30	70				
												30	70				

SCS-SANTA ROSA BORING LOG 01203377 BG.GPJ SCS-SANTA ROSA.GDT 06/01/04

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BORING LOG MUF-A13-02

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-02

1 of 2

Date (start, end): 4/15/04
Drilling Time (start, end) 17:00
Logged By: Stephen Knüttel
Checked By:

Boring No.
MUF-A13-03

Boring Location: See site map

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

Driller's Name: Chris Herrell

Drilling Method: 8-in Hollow-Stem Auger

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Auger Depth, ft: 25.5 Total Depth, ft: 25.5

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								602.9							
								602.6	1						GRAVEL BASE.
									2						SILT (ML): brown.
									3						Dark brown.
								598.9	4						SILT with Sand (ML): dark brown, very fine to fine grained sand, moist.
									5		20	60	20		
								597.4	6		70	30			SILTY SAND (SM): dark brown, very fine to fine grained sand, moist.
					0	No	No		6		70	30			
									7						
									8						
									9						
								592.9	10						GRAVEL with Sand (GW): dark brown, fine and coarse gravel, fine to coarse grained sand, moist, minor silt.
					0				11		60	30	10		

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BORING LOG MUF-A13-03

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-03

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/01/04

Date (start, end): 4/16/04 - 4/16/04
Drilling Time (start, end) 14:55 - 15:00
Logged By: Stephen Knüttel
Checked By:

Boring No. **MUF-A14-01**

Boring Location: See site map

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 2.5-in Sampler

Auger Depth, ft: n.a. Total Depth, ft: 1.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
☒	6	9	CMSS					615.0				30	60	10	SANDY SILT (ML): brown, very fine to fine grained sand, dry to moist.
☒	6	14										30	60	10	
☒	6	15						613.5	1			30	60	10	
									2						TOTAL DEPTH = 1.5 FEET
									3						
									4						
									5						
									6						
									7						
									8						
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									10						
									11						

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BORING LOG MUF-A14-01

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A14-01

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.CPJ SCS-SANTA ROSA.GDT 06/01/04

Date (start, end): 4/16/04 - 4/16/04	Boring No. MUF-A14-02	Boring Location: See site map
Drilling Time (start, end) 14:40 - 14:45		
Logged By: Stephen Knüttel		See Unified Soil Classification System (USCS) for Legend and information not noted.
Checked By:		

Drilling Contractor: Clear Heart Drilling, Inc.	MW Installed: Y ☐ N ☒ if no, boring backfilled with:
Driller's Name: Pablo Gonzales	Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒
Drilling Method: 2.5-in Sampler	Auger Depth, ft: n.a. Total Depth, ft: 1.5
Sampling Method: CMSS	
Hammer weight / fall: 140 lbs / 30 inch	
Notes:	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6	4	CMSS					615.0				30	60	10	SANDY SILT (ML): brown with roots, moist.
	6	7										30	60	10	
	6	8						613.5	1			30	60	10	
									2						TOTAL DEPTH = 1.5 FEET
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 06/01/04

SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A14-02 Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.00	Figure: Appendix A MUF-A14-02 1 of 1
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Date (start, end): 4/16/04 - 4/16/04

Boring No.

Boring Location: See site map

Drilling Time (start, end) 13:45 - 14:25

MUF-A14-03

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						A	A	615.0							
									1						SANDY SILT (ML): brown, very fine to fine grained sand.
									2						
								612.0	3						
									4						SILTY SAND (SM): brown, fine to medium grained sand.
									5						
									6						
						No	No	609.5	7						SAND with Gravel (SW): brown, fine to coarse grained sand and fine gravel, rounded.
									8						
									9						
									10						
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									127						
									128						
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									155						
									156						
									157						
									158						
									159						
									160						
									161						
									162						

Date (start, end): 3/30/04 - 3/30/04
 Drilling Time (start, end) 09:00 - 12:00
 Logged By: Stephen Knüttel
 Checked By:

Boring No. **MUF-BG-03**

Boring Location: See site map

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 25.5 Total Depth, ft: 25.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								628.4							
								628.0							ASPHALT: over base rock.
								627.4	1						FILL: Silty Sand with gravel, brown, fine to medium grained sand, moist.
									2						
									3						
								624.4	4						SANDY SILT (ML): yellowish brown mottled with reddish brown, very fine to fine grained sand, very hard, moist.
									5		30	40	30		
									6		30	40	30		
					0	No	No		7						SILT (ML): yellowish brown mottled with reddish brown, hard to very hard, moist, clayey.
								620.4	8						
									9		10	50	40		
									10		10	50	40		
					0				11		10	50	40		

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

SCS ENGINEERS

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BORING LOG MUF-BG-03

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-BG-03

1 of 2

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 06/01/04

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.4	13						GRAVEL with Silt and Sand (GW-GM): brown to reddish brown, fine and coarse gravel, fine to medium grained sand, moist to wet.
X	6	21	CMSS	K	0				14		40	20	30	10	
X	6	31							15		40	20	30	10	
	6	36							16		40	20	30	10	Wet.
			CMSS		0	No	No	608.7	17						
X	6	14							18						
X	6	8							19		40	20	30	10	SILT with Sand (ML): brown mottled with reddish brown, very fine to fine grained sand, moist to wet.
	6	14	CMSS		0				20		20	40	40		
									21						
			CMSS		0			602.9	22						TOTAL DEPTH = 25.5 FEET
X	6	10							23						
X	6	14							24		20	40	40		
	6	18							25		20	40	40		
									26						
									27						

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BORING LOG MUF-BG-03

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Job Number: 01203377.00

Figure:

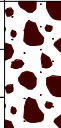
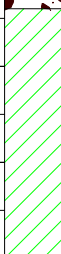
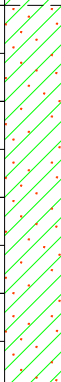
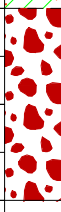
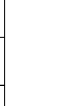
Appendix A
MUF-BG-03

2 of 2

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	
 Soil sample submitted for chemical analysis  Soil sample examined for soil classification Sampler Type CMSS = CA Modified Split Spoon SPT = Standard Penetration Test CBS = Continuous Barrel Sampler GRAB = Grab Sample HA = Hand Auger  Initial Static Water Level  First Identified Free Water n.a. = not applicable n.r. = not recorded					
SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769		UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.00			
		Figure: Appendix A A-1 1 of 1			

Date (start, end): 6/13/05 - 6/13/05 Drilling Time (start, end) 08:30 - 08:40 Logged By: Stephen Knüttel Checked By: Stephen Knüttel	Boring No. MUF-A01-06 Boring Location: Adjacent to MUF-A01-02 See Unified Soil Classification System (USCS) for Legend and information not noted.
---	--

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Chris Herrell</u> Drilling Method: <u>4-in Solid-Stem Auger</u> Sampling Method: <u>NA</u> Hammer weight / fall: <u>NA</u> Notes: Lithology from MUF-A01-02	MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>10.0</u> Total Depth, ft: <u>10.0</u> Temp. Screen (interval / dia. / slot): <u>0-10 ft. / 2 in. / 0.01 in.</u>
--	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
									1						GRAVEL BASE.
								611.6	2						CLAY (CL).
								609.0	4						CLAY with Sand (CL).
								605.0	8						GRAVEL with Sand (GW).
								603.0	10						TOTAL DEPTH = 10.0 FEET
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/21/05

SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A01-06 Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.00	Figure: Appendix A MUF-A01-06 1 of 1
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Boring Location:

MUF-A13-04

See Unified Soil Classification System (USCS)
for Legend and information not noted.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Auger Depth, ft: 66.0 Total Depth, ft: 66.0

Hammer weight / fall: 140 lbs / 30 inch

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↑	↑	609.8							TOPSOIL.
								609.3	1						CLAY (CL): brown, minor, fine to coarse grained sand, trace fine gravel, moist.
									2						
									3						
								605.8	4						SILTY SAND with Gravel (SM): brown to grayish brown, fine to coarse grained sand, fine and coarse gravel, moist to wet.
					0				5		30	40	20	10	
						No	No		6		30	40	20	10	
									7		30	40	20	10	
								601.8	8						GRAVEL with Silt and Sand (GW-GM): moderate brown to grayish brown, fine and coarse gravel, fine to coarse grained sand, minor clay, wet.
									9						
									10		45	30	15	10	
					0				11		45	30	15	10	
											45	30	15	10	

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BORING LOG MUF-A13-04

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-04

1 of 5

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 07/21/05

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									13						
									14						
									15		45	30	15	10	
					0				15		45	30	15	10	
									16		45	30	15	10	
									17						
									18						
									19						
					0	No	No		20		50	30	10	10	
									21		50	30	10	10	
									22		50	30	10	10	
								586.8	23						
									24						
					0				25		50	40	5	5	
									26		50	40	5	5	
									27		50	40	5	5	

GRAVEL with Sand (GW): brown, fine and coarse gravel, minor silt and clay, wet.

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BORING LOG MUF-A13-04

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-04

2 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									29						
	6	9	CMSS		0				30		50	40	5	5	
	6	11									50	40	5	5	
	6	22			0			578.8	31		10	40	50		CLAY with Sand (CL): brown, very fine to fine grained sand, silt, moist to wet.
									32						
									33						
	6	9	CMSS						34		20	30	50		
	6	13			0			575.8			80	10	10		SAND with Silt (SP-SM): brown, fine grained sand, moist to wet.
	6	20						575.3			20	20	60		CLAY with Sand (CL): brown mottled with light gray, very fine to fine grained sand, moist, silty.
	6	4	CMSS		0				35		10	30	60		
	6	6				No	No	574.3			T	20	80		CLAY (CL): olive gray, moist, silty.
	6	8							36		T	20	80		
									37						
									38						
									39						
	6	9	CMSS		0				40			20	80		Olive gray mottled with grayish olive.
	6	12							41			20	80		
	6	23							42			20	80		
									43						

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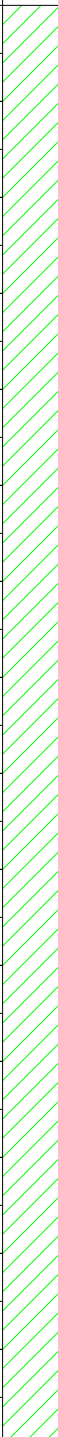
BORING LOG MUF-A13-04

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-04

3 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS						45			5	30	70	Olive gray.
	6	15							25				70		
	6	21							20				80		
								47							
			CMSS						48						
	6	13							10	90					
	6	22							10	90					
	6	29						51				10	90		
			CMSS			No	No		52						
									53						
									54						
	6	8	CMSS						55				10	90	
	6	12							10	90					
	6	22							10	90					
								57							
								58							
								550.8	59						CLAYEY SAND (SC): olive gray mottled with moderate brown, very fine to fine grained sand, wet.

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BORING LOG MUF-A13-04

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-04

4 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
6	5		CMSS		0			549.3							CLAY (CL): olive gray, moist. SANDY CLAY (CL): very fine to fine grained sand, wet.
6	10							548.8	61						
6	16								62						
			CMSS		0	No	No	547.3	63						SAND with Gravel (SP): moderate brown to grayish red, fine to medium grained sand and fine gravel, minor silt and clay.
									64						
									65						
6	18								66		20	70	5	5	
6	50/6"							543.8	66		20	70	5	5	
									67						TOTAL DEPTH = 66.0 FEET
									68						
									69						
									70						
									71						
									72						
									73						
									74						
									75						

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BORING LOG MUF-A13-04

Former Masonite Facility
 300 Ford Road
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 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-04

5 of 5

Date (start, end): 6/14/05 - 6/14/05
Drilling Time (start, end) 08:30 - 10:20
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No. **MUF-A13-05**

Boring Location: Adjacent to MUF-A13-04

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Chris Herrell
Drilling Method: 8-in Hollow-Stem Auger
Sampling Method: NA
Hammer weight / fall: NA
Notes:

MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Auger Depth, ft: 15.5 Total Depth, ft: 15.5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								609.7							
								609.2	1						TOPSOIL.
									2						CLAY.
									3						
								605.7	4						SILTY SAND with Gravel.
									5						
									6						
									7						
								601.7	8						GRAVEL with Silt and Sand: minor clay, wet.
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/21/05

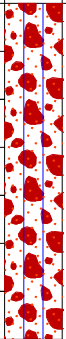
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BORING LOG MUF-A13-05

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:
Appendix A
MUF-A13-05
1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								594.2	13 14 15						
									16 17 18 19 20 21 22 23 24 25 26 27						TOTAL DEPTH = 15.5 FEET

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BORING LOG MUF-A13-05

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 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-05

2 of 2

Date (start, end): 6/13/05 - 6/13/05 Drilling Time (start, end) 15:00 - 17:00 Logged By: Stephen Knüttel Checked By: Stephen Knüttel	Boring No. MUF-A13-06	Boring Location: See Unified Soil Classification System (USCS) for Legend and information not noted.
---	---------------------------------	---

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Chris Herrell</u> Drilling Method: <u>8-in Hollow-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>16.0</u> Total Depth, ft: <u>16.0</u>
Notes:	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								609.8							
								609.3	1						TOPSOIL.
									2						CLAY (CL): brown, silty, minor fine and coarse gravel, moist.
								606.8	3						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet, minor clay.
									4						
									5		50	35	10	5	Wet.
									6		50	35	10	5	
									7						
									8						
									9						
									10		60	30	10	T	
									11		60	30	10	T	

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/21/05

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BORING LOG MUF-A13-06

Former Masonite Facility
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Figure:

Appendix A
 MUF-A13-06

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BORING LOG MUF-A13-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-06

Date (start, end): 6/13/05 - 6/13/05
Drilling Time (start, end) 09:30 - 11:45
Logged By: Stephen Knüttel
Checked By: Stephen Knüttel

Boring No. **MUF-A13-07**

Boring Location:
See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.
Driller's Name: Chris Herrell
Drilling Method: 8-in Hollow-Stem Auger
Sampling Method: CMSS
Hammer weight / fall: 140 lbs / 30 inch
Notes:

MW Installed: Y ☒ N ☐ if no, boring backfilled with:
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐
Auger Depth, ft: 20.5 Total Depth, ft: 21.5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								613.0							
								612.5	1						TOPSOIL.
									2						
									3						
									4						
					0				5			T	40	60	
						No	No		6			T	40	60	
									6			T	40	60	
									7						
									8						
									9						
								604.0	10						SAND with Gravel (SW): olive gray, fine to coarse grained sand and fine and coarse gravel, wet, minor silt and clay.
					0				10		30	60	5	5	
									11		30	60	5	5	
									11		30	60	5	5	

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/21/05

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BORING LOG MUF-A13-07

Former Masonite Facility
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Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-07
1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								600.5	13						GRAVEL with Silt and Sand (GW-GM): olive gray to brown, fine gravel, fine to coarse grained sand, wet, minor clay.
					0				14						
									15		55	30	10	5	
									16		55	30	10	5	
						No	No		17						
									18						
									19						
					0				20		55	30	10	5	
									21		55	30	10	5	
									22		55	30	10	5	
								591.5	23						TOTAL DEPTH = 21.5 FEET
									24						
									25						
									26						
									27						

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A13-07

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-07

2 of 2

Date (start, end): 6/7/05 - 6/7/05

Boring No.

Boring Location:

Drilling Time (start, end) 08:30 - 15:30

MUF-A13-08

Logged By: Stephen Knüttel

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Checked By: Stephen Knüttel

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Rick Schneider

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

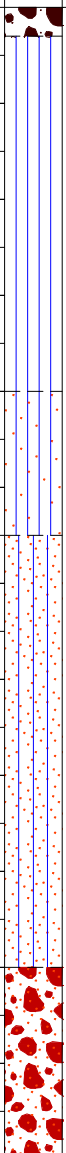
Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 66.0 Total Depth, ft: 66.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Lithology between 0-20' from MUF-A13-03

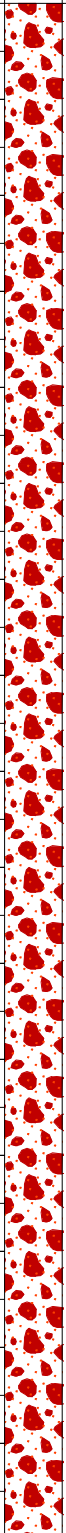
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								606.0							
						↑	↑	605.7	1						GRAVEL BASE. SILT (ML).
								602.0	4						SILT with Sand (ML).
								600.5	6						SILTY SAND (SM).
						No	No	596.0	10						GRAVEL with Sand (GW): fine and coarse gravel, fine to coarse grained sand.
									11						

SCS ENGINEERSEnvironmental Consultants
3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769**BORING LOG MUF-A13-08**Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix A
MUF-A13-08

1 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									13						Wet.
									14						
									15						
									16						
									17						
									18						
									19						
									20		60	30	5	5	Fine and coarse gravel, subangular.
					0	No	No		21		60	30	5	5	
									22						
									23						Fine and coarse gravel, rounded.
									24						
									25						
					0				26						
									27						

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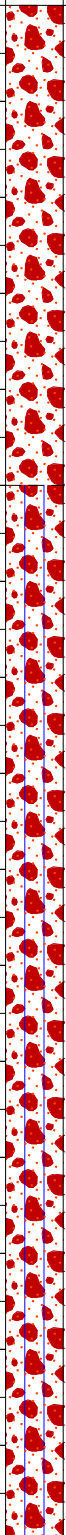
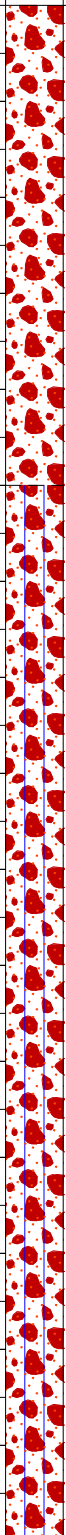
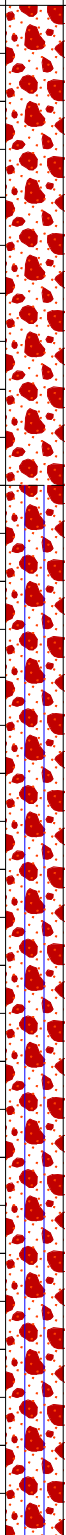
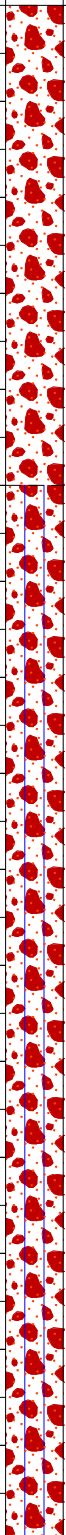
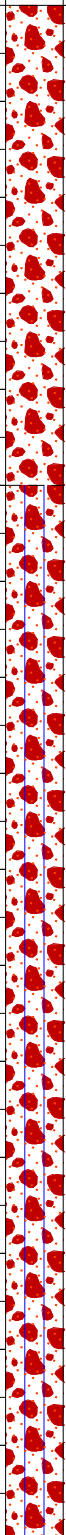
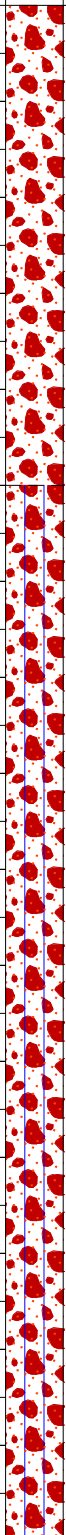
BORING LOG MUF-A13-08

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-08

2 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS		0				29		60	30	5	5	GRAVEL with Silt and Sand (GW-GM): brown to moderate yellowish brown, fine and coarse gravel, fine to coarse grained sand, wet, slightly cemented.
									30						
	6	13							60						
	6	18	60	30	5	5									
	6	37	60	30	5	5									
			CMSS		0			573.0	32						
									33						
									34						
			CMSS		0	No	No		35		50	30	15	5	
									36						
	6	19							50						
	6	27	50	30	15	5									
	6	44	50	30	15	5									
			CMSS		0				37						
									38						
									39						
			CMSS						40		50	30	15	5	
									41						
	6	20							50						30
	6	35	50	30	15	5									
	6	39	50	30	15	5									
									42						
									43						

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

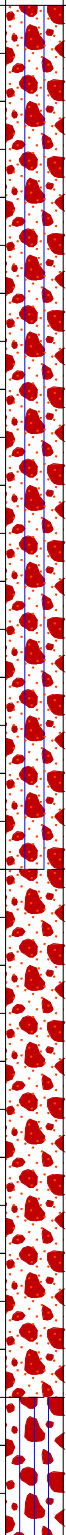
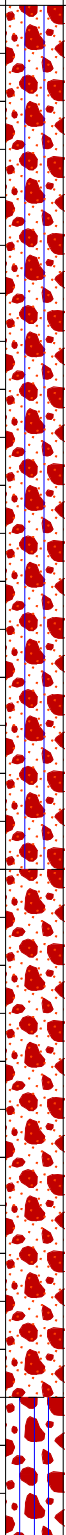
BORING LOG MUF-A13-08

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-08

3 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:	
			CMSS		0				45		45	30	15	10	Very dense, increased silt and clay content, cemented.	
	6	15							46							
	6	20							47							
	6	50	CMSS		0				48		45	30	15	10		
	6	20							49							
	6	34							50							
	6	35	CMSS			No	No	553.0	51		45	30	15	10		GRAVEL with Sand (GW): brown, fine and coarse gravel, fine to coarse grained sand, wet, minor silt and clay.
									52							
									53							
			CMSS		0				54	55	30	10	5			
	6	13							55							
	6	27							56							
	6	45	CMSS					547.5	57		55	30	10	5	SILTY GRAVEL (GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.	
									58							
									59							

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BORING LOG MUF-A13-08

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.00

Figure:

Appendix A
 MUF-A13-08

4 of 5

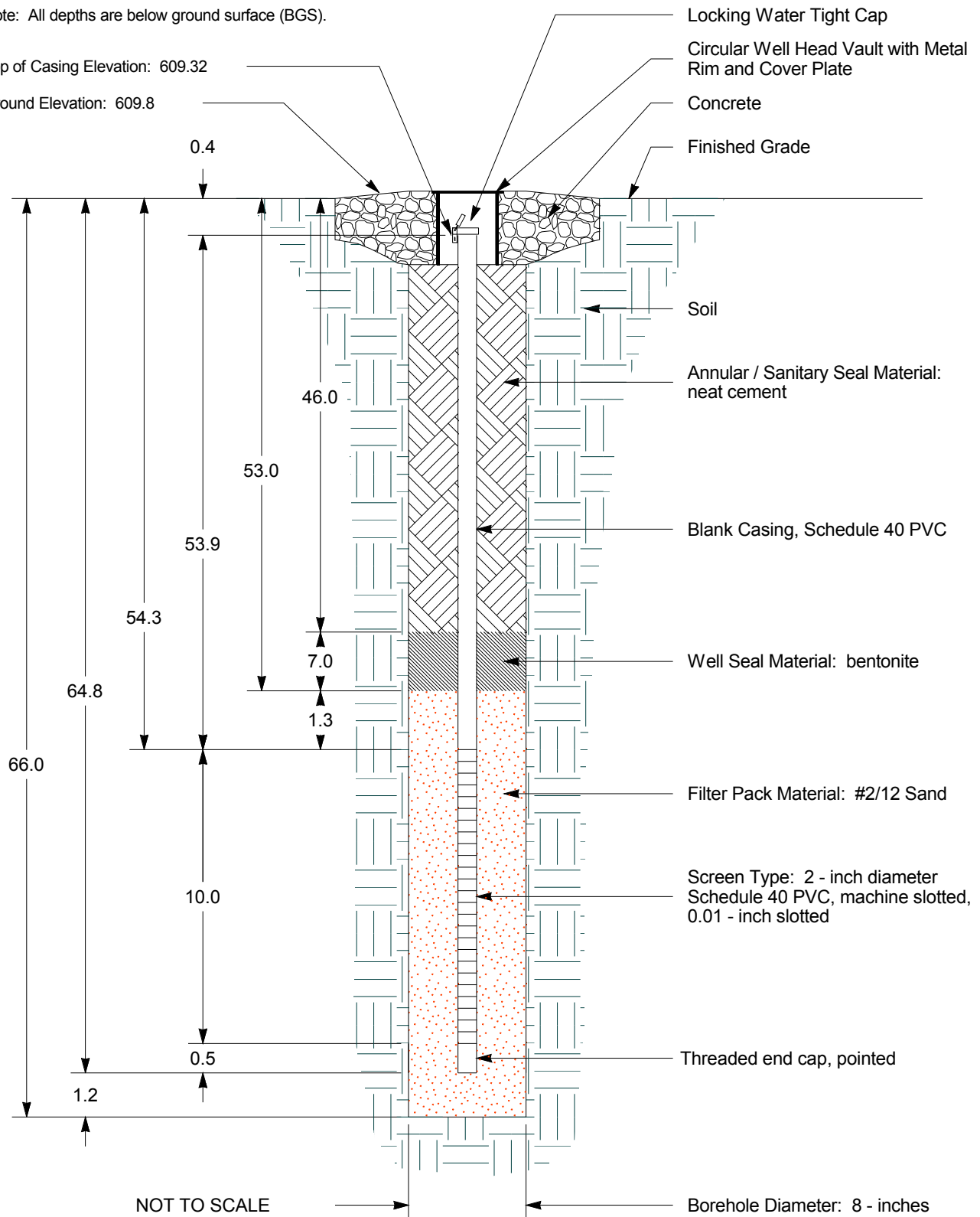
APPENDIX B

MONITORING WELL COMPLETION DIAGRAMS WITH WELL ELEVATION SURVEY REPORT

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 609.32

Ground Elevation: 609.8



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WELL COMPLETION DIAGRAM FOR MUF-A13-04

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

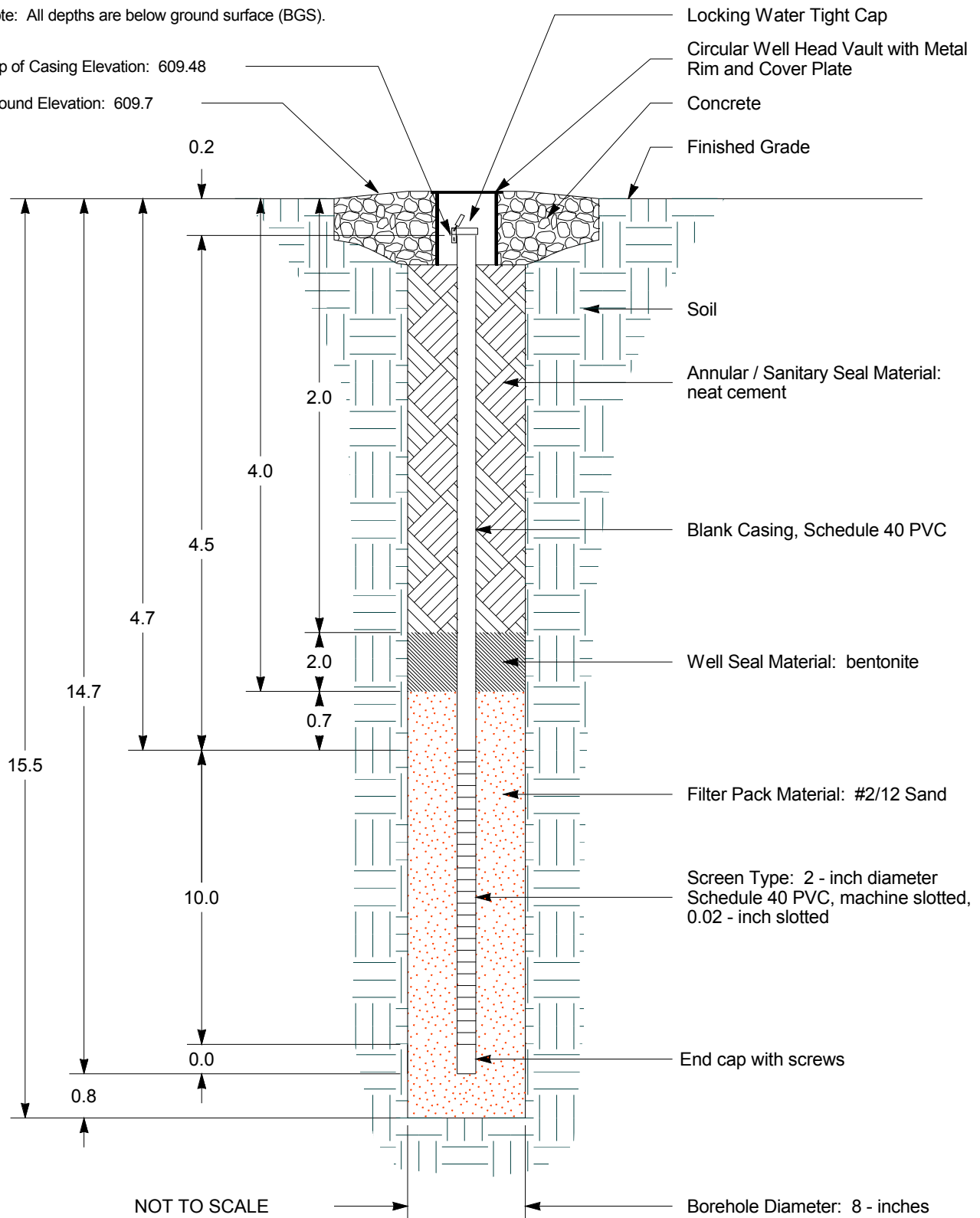
Figure:

Appendix B
MUF-A13-04

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 609.48

Ground Elevation: 609.7



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Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A13-05

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

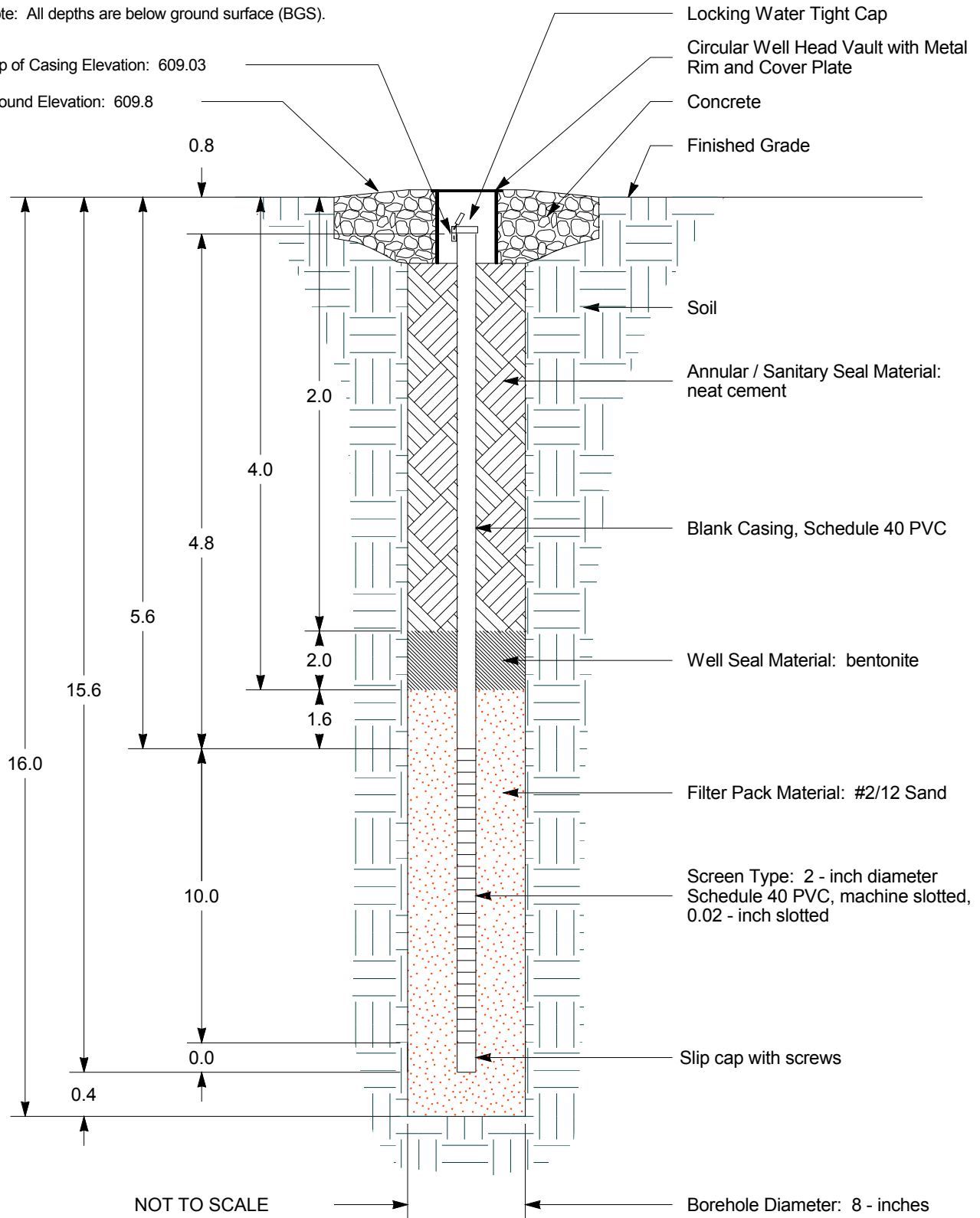
Figure:

Appendix B
MUF-A13-05

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 609.03

Ground Elevation: 609.8



SCS ENGINEERS

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3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A13-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

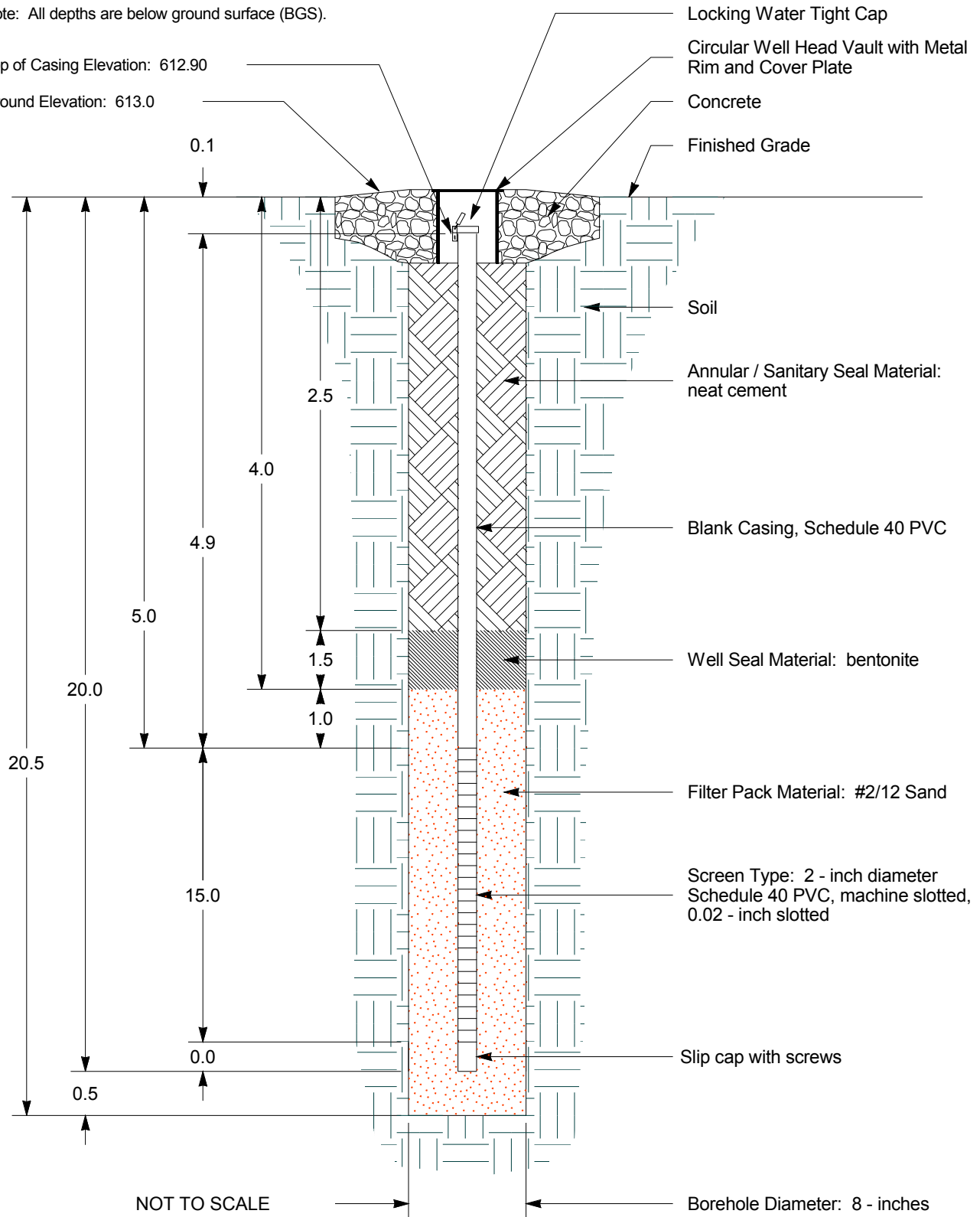
Figure:

Appendix B
MUF-A13-06

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 612.90

Ground Elevation: 613.0



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Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A13-07

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

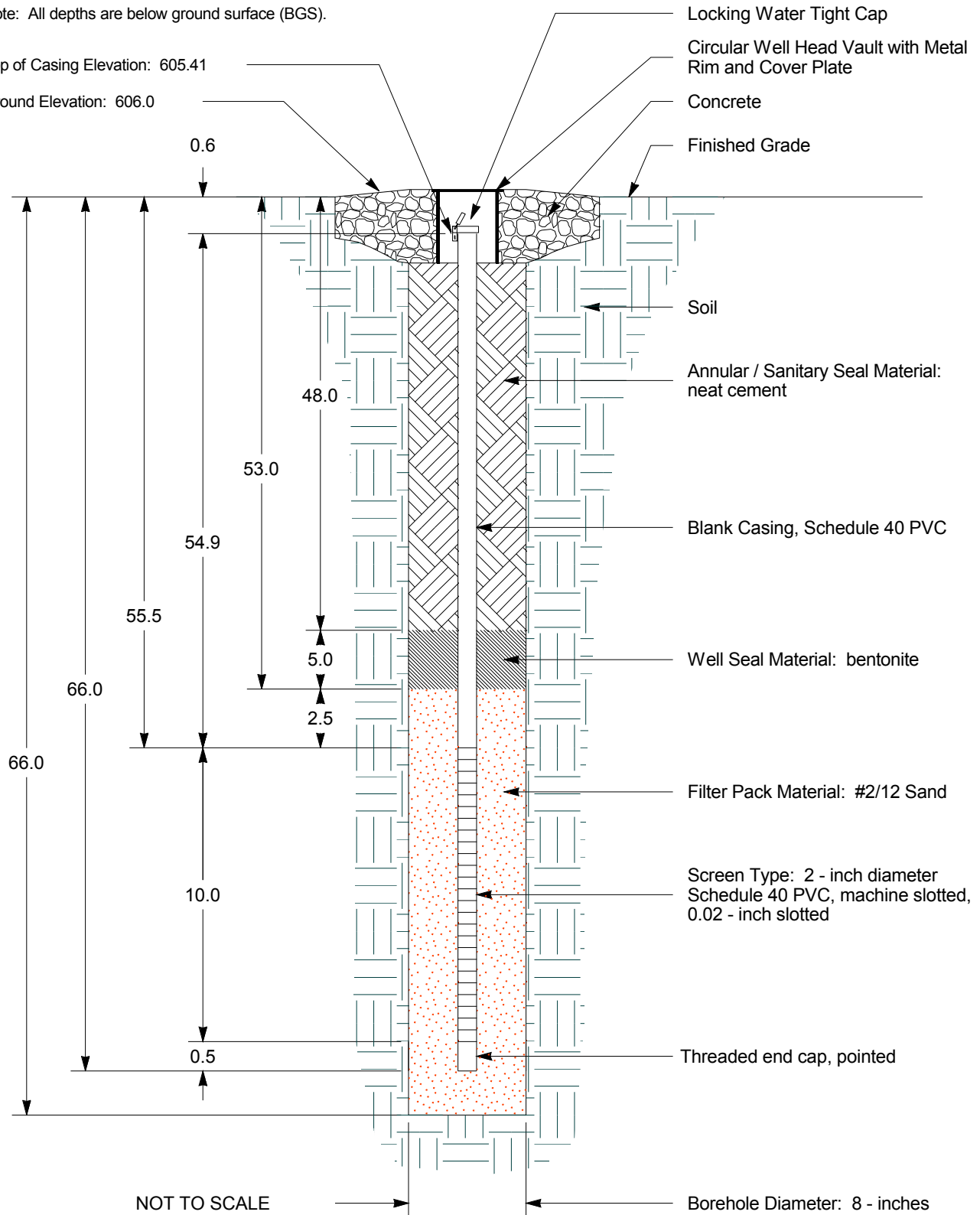
Figure:

Appendix B
MUF-A13-07

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 605.41

Ground Elevation: 606.0



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3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A13-08

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.00

Figure:

Appendix B
MUF-A13-08

JACOBS LAND SURVEYING
1625 PERSEUS CT. PETALUMA, CA. 94954 (707) 782-0733

DATE: 07-14-05

JN 04-994-Me

TO: SCS Engineers
3645 West wind Blvd.
Santa Rosa, Ca. 95403

RE: Masonite Facility
300 Ford Rd.
Ukiah, Ca.
Your Job No. 3377

On July 11 , 2005 this office ran a closed level loop with a Zeiss Ni2 Auto Level from a previously established TBM, top of bolt @ NE corner RR crossing arm at Ford Rd. & US101 overpass, Elev.609.52, 1929 NGVD*, Elev. 612.36 88 NAVD yielding the following monitoring well elevations. On this same date, employing a Leica GS 20, latitudes and longitudes were derived for the monitoring wells.

<u>MW#</u>	<u>Casing</u>	<u>Rim</u>	<u>Latitude</u>	<u>Longitude</u>	<u>Pos.Olty.</u>	<u>Comments</u>
A13-04	609.32	609.75	39.1706225	123.2048142	61.46cm	(A)(N)-.3og
A13-05	609.48	609.68	39.1706437	123.2048107	41.42cm	(A)(N)
A13-06	609.03	609.79	39.1696589	123.2048902	55.66cm	(A)(N)
A13-07	612.90	612.97	39.1715650	123.2034525	43.41cm	(A)(N)-2.2og
A13-08	605.41	605.96	39.1673768	123.1982552	51.29cm	(A)(N)
A13-03**	605.45	605.86				

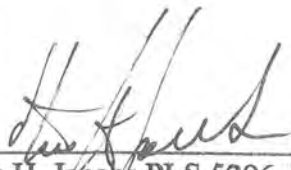
Key (A) Allen head (L) Large Bolt (Sb) Small bolt
(N)(S)(E)(W) Direction (B) Black mark (P) Pressure
(M)Missing bolt/lock ? (og) on grade (HP) High point

Remarks

.All wells recovered and observed were in god condition and resealed as found.

*Elevations shown above are NAVD 88, previous elevations were 1929 NGVD.

**Revised, per current level loop raised 0.11 from previous elevation 5-21-04. No other wells affected.


Steven H. Jacobs PLS 5296
Lic. Exp. 12-31-05



APPENDIX C

DWR 188 WELL COMPLETION REPORT FORMS

ORIGINAL
File with DWR
Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

Owner's Well No. **MUF-A13-04**

No. **1073088**

Date Work Began **06/06/05** Ended **06/06/05**

Local Permit Agency **Mendocino County Department of Health**

Permit No. **23-5189**

Permit Date **05/16/05**

GEOLOGIC LOG

ORIENTATION (✓)		✓ VERTICAL	HORIZONTAL	ANGLE	(SPECIFY)
DEPTH FROM SURFACE		DRILLING METHOD Hollow-Stem Auger FLUID n.a.			
		DESCRIPTION			
		Describe material, grain size, color, etc.			
Fl.	to	Fl.			
0		0.5	TOPSOIL.		
0.5		4	CLAY (CL): brown, minor, fine to coarse grained sand, trace fine gravel, moist.		
4		8	SILTY SAND with Gravel (SM): brown to grayish brown, fine to coarse grained sand, fine and coarse gravel, moist to wet.		
8		23	GRAVEL with Silt and Sand (GW-GM): moderate brown to grayish brown, fine and coarse gravel, fine to coarse grained sand.		
23		31	GRAVEL with Sand (GW): brown, fine and coarse gravel, minor silt and clay, wet.		
31		34	CLAY with Sand (CL): brown, very fine to fine grained sand, silt, moist to wet.		
34		34.5	SAND with Silt (SP-SM): brown, fine grained sand, moist to wet.		
34.5		35.5	CLAY with Sand (CL): brown mottled with light gray, very fine to fine grained sand, moist.		
35.5		59	CLAY (CL): olive gray, moist.		
40			Olive gray mottled with grayish olive.		
50			Olive gray.		
59		60.5	CLAYEY SAND (SC): olive gray mottled with moderate brown, very fine to fine grained sand, wet.		
60.5		61	CLAY (CL): olive gray, moist.		
61		62.5	SANDY CLAY (CL): very fine to fine grained sand, wet.		
62.5		66	SAND with Gravel (SP): moderate brown to grayish red, fine to medium grained sand and fine gravel, minor silt and clay.		
TOTAL DEPTH OF BORING		66	(Feet)		
TOTAL DEPTH OF COMPLETED WELL		64.8	(Feet)		

WELL OWNER

Name	Masonite International		
Mailing Address	1955 Powis Road		
City	West Chicago	State	Illinois
		ZIP	60185
WELL LOCATION			
Address	300 Ford Road		
City	Ukiah		
County	Mendocino		
APN Book	170	Page	170
Parcel	006		
Township		Range	
Section			
Latitude	DEG. MIN. SEC. NORTH	Longitude	DEG. MIN. SEC. WEST

LOCATION SKETCH



Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. **PLEASE BE ACCURATE & COMPLETE.**

ACTIVITY (✓)

NEW WELL	
MODIFICATION/REPAIR	
Deepen	
Other (Specify)	
DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	
PLANNED USES (✓)	
WATER SUPPLY	
Domestic	
Public	
Irrigation	
Industrial	
MONITORING	✓
TEST WELL	
CATHODIC PROTECTION	
HEAT EXCHANGE	
DIRECT PUSH	
INJECTION	
VAPOR EXTRACTOR	
SPARGING	
REMEDATION	
OTHER (SPECIFY)	

WATER LEVEL & YIELD OF COMPLETED WELL

DEPTH TO FIRST WATER	7.5	(FL) BELOW SURFACE
DEPTH OF STATIC WATER LEVEL	n.a.	(FL) & DATE MEASURED n.a.
ESTIMATED YIELD *	n.a.	(GPM) & TEST TYPE n.a.
TEST LENGTH	n.a.	(Hrs) TOTAL DRAWDOWN n.a. (FL)
* May not be representative of a well's long-term yield.		

DEPTH FROM SURFACE	BORE-HOLE DIA. (inches)	CASING (S)					
		TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (inches)
Fl.	to	Fl.	BLANK	SCREEN	CON-DUCTOR	FILL PIPE	
-	-	-					
0.4	54.3	8	✓			PVC	2
54.3	64.3	8		✓		PVC	2
64.3	64.8	8	✓			PVC	2

DEPTH FROM SURFACE	CE-MENT (✓)	BEN-TONITE (✓)	ANNULAR MATERIAL	
			TYPE	
Fl.	to	Fl.	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	46.0		✓	
46.0	53.0			
53.0	66.0		✓	#2/12 Sand

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**

PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

ADDRESS **3645 Westwind Boulevard**

CITY **Santa Rosa**

STATE **California** ZIP **95403**

Signed 
WELL DRILLER/AUTHORIZED REPRESENTATIVE

DATE SIGNED **8/1/05**

C-57 LICENSE NUMBER **780357**

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. **MUF-A13-06**

Date Work Began **06/13/05** Ended **06/13/05**

Local Permit Agency **Mendocino County Department of Health**

Permit No. **23-5189** Permit Date **05/16/05**

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1073090**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.									
LATITUDE					LONGITUDE				
APN/TRS/OTHER									

DEPTH FROM SURFACE			FLUID	DESCRIPTION
FL.	to	FL.		
0	to	0.5		TOPSOIL.
0.5		3		CLAY (CL): brown, silty, minor fine and coarse gravel, moist.
3		16		GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
5				Wet.

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE ☐ (SPECIFY)

DRILLING METHOD **Hollow-Stem Auger**

Describe material, grain size, color, etc.

TOTAL DEPTH OF BORING **16** (Feet)

TOTAL DEPTH OF COMPLETED WELL **15.6** (Feet)

WELL OWNER	
Name Masonite International	
Mailing Address 1955 Powis Road	
City West Chicago	Illinois 60185

WELL LOCATION	
Address 300 Ford Road	
City Ukiah	
County Mendocino	
APN Book 170 Page 170 Parcel 006	
Township Range Section 	
Latitude NORTH Longitude WEST 	

LOCATION SKETCH	
	
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.	

ACTIVITY (✓)	
☐ NEW WELL	
☐ MODIFICATION/REPAIR	
☐ Deepen	
☐ Other (Specify) 	
☐ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")	

PLANNED USES (✓)	
☐ WATER SUPPLY	
☐ Domestic ☐ Public	
☐ Irrigation ☐ Industrial	
☒ MONITORING	
☐ TEST WELL	
☐ CATHODIC PROTECTION	
☐ HEAT EXCHANGE	
☐ DIRECT PUSH	
☐ INJECTION	
☐ VAPOR EXTRACTOR	
☐ SPARGING	
☐ REMEDIATION	
☐ OTHER (SPECIFY) 	

WATER LEVEL & YIELD OF COMPLETED WELL	
DEPTH OF FIRST WATER 5 (FL) BELOW SURFACE	
DEPTH OF STATIC WATER LEVEL n.a. (FL) & DATE MEASURED n.a.	
ESTIMATED YIELD * n.a. (GPM) & TEST TYPE n.a.	
TEST LENGTH n.a. (Hrs) TOTAL DRAWDOWN n.a. (FL)	
* May not be representative of a well's long-term yield.	

DEPTH FROM SURFACE			BORE-HOLE DIA. (inches)	CASING (S)						
				TYPE (✓)			MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)
Ft	to	Ft.		BLANK	SCREEN	CON- DUCTOR				
-		-	-					-	-	
0.8		5.6	8	✓				PVC	2	0.25
5.6		15.6	8		✓			PVC	2	0.25

DEPTH FROM SURFACE			ANNULAR MATERIAL			
FL.	to	FL.	TYPE			
			CE-MENT (✓)	BEN-TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	2.0		✓			
2.0	4.0			✓		
4.0	16.0				✓	#2/12 Sand

ATTACHMENTS (✓)

- ☐ Geologic Log
- ☐ Well Construction Diagram
- ☐ Geophysical Log(s)
- ☐ Soil/Water Chemical Analyses
- ☐ Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**

PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

3645 Westwind Boulevard

ADDRESS

Santa Rosa

CITY

California

STATE

95403

ZIP

Signed **SK**

WELL DRILLER/AUTHORIZED REPRESENTATIVE

8/1/05

DATE SIGNED

780357

C-57 LICENSE NUMBER

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. MUF-A13-07

Date Work Began 06/13/05 Ended 06/13/05

Local Permit Agency Mendocino County Department of Health

Permit No. 23-5189 Permit Date 05/16/05

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1073091**

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

ORIENTATION (✓)			DRILLING METHOD		FLUID		n.a.	
DEPTH FROM SURFACE			Hollow-Stem Auger		n.a.		n.a.	
Ft.	to	Ft.	DESCRIPTION					
0	to	0.5	TOPSOIL.					
0.5	to	9	CLAY (CL): brown, moist.					
9	to	12.5	SAND with Gravel (SW): olive gray, fine to coarse grained sand and fine and coarse gravel, wet.					
12.5	to	21.5	GRAVEL with Silt and Sand (GW-GM): olive gray to brown, fine gravel, fine to coarse grained sand, wet.					
TOTAL DEPTH OF BORING 21.5 (Feet)								
TOTAL DEPTH OF COMPLETED WELL 20 (Feet)								

WELL OWNER				WELL LOCATION			
Name Masonite International				Address 300 Ford Road			
Mailing Address 1955 Powis Road				City Ukiah			
West Chicago				County Mendocino			
Illinois 60185				APN Book 170 Page 170 Parcel 006			
CITY				Township Range Section			
Latitude				Longitude			
DEG. MIN. SEC. NORTH				DEG. MIN. SEC. WEST			
LOCATION SKETCH				ACTIVITY (✓)			
				NEW WELL			
				MODIFICATION/REPAIR			
				DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")			
				PLANNED USES (✓)			
				WATER SUPPLY			
Domestic Public				Irrigation Industrial			
MONITORING ✓				TEST WELL			
CATHODIC PROTECTION				HEAT EXCHANGE			
DIRECT PUSH				INJECTION			
VAPOR EXTRACTOR				SPARGING			
REMEDICATION				OTHER (SPECIFY)			
WATER LEVEL & YIELD OF COMPLETED WELL							
DEPTH TO FIRST WATER 9 (FL) BELOW SURFACE							
DEPTH OF STATIC WATER LEVEL n.a. (FL) & DATE MEASURED n.a.							
ESTIMATED YIELD * n.a. (GPM) & TEST TYPE n.a.							
TEST LENGTH n.a. (Hrs.) TOTAL DRAWDOWN n.a. (FL)							
* May not be representative of a well's long-term yield.							

DEPTH FROM SURFACE		BORE-HOLE DIA. (inches)	CASING (S)				
			TYPE (✓)		MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS
Ft.	to	Ft.	BLANK	SCREEN			
0.1	5.0	8	✓		PVC	2	0.25
5.0	20.0	8		✓	PVC	2	0.25

DEPTH FROM SURFACE		ANNULAR MATERIAL			
		TYPE			
Ft.	to	Ft.	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)
0	2.5		✓		
2.5	4.0			✓	
4.0	21.5				✓
					#2/12 Sand

ATTACHMENTS (✓)

- Geologic Log
- Well Construction Diagram
- Geophysical Log(s)
- Soil/Water Chemical Analyses
- Other

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME SCS Engineers

PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

3645 Westwind Boulevard

ADDRESS

Santa Rosa

CITY

California

STATE

95403

ZIP

Signed S/K

WELL DRILLER/AUTHORIZED REPRESENTATIVE

8/1/05

DATE SIGNED

780357

C-57 LICENSE NUMBER

ORIGINAL
File with DWR

Page 1 of 1

Owner's Well No. **MUF-A13-08**

Date Work Began **06/07/05** Ended **06/07/05**

Local Permit Agency **Mendocino County Department of Health**

Permit No. **23-5189**

Permit Date **05/16/05**

STATE OF CALIFORNIA
WELL COMPLETION REPORT

Refer to Instruction Pamphlet

No. **1073092**

DWR USE ONLY - DO NOT FILL IN	
STATE WELL NO./STATION NO.	
LATITUDE	LONGITUDE
APN/TRS/OTHER	

GEOLOGIC LOG			
ORIENTATION (✓)		DRILLING METHOD	
✓ VERTICAL _____ HORIZONTAL _____ ANGLE _____ (SPECIFY)		Hollow-Stem Auger FLUID n.a.	
DEPTH FROM SURFACE		DESCRIPTION	
FL	to	FL	
0	0.3		FILL.
0.3	4		SILT (ML).
4	5.5		SILT with Sand (ML).
5.5	10		SILTY SAND (SM).
10	33		GRAVEL with Sand (GW): fine and coarse gravel, fine to coarse grained sand.
15			Wet.
20			Fine and coarse gravel.
25			Fine and coarse gravel.
33	53		GRAVEL with Silt and Sand (GW-GM): brown to moderate yellowish brown, fine and coarse gravel, fine to coarse grained sand, wet.
53	58.5		GRAVEL with Sand (GW): brown, fine and coarse gravel, fine to coarse grained sand, wet.
58.5	62.5		SILTY GRAVEL (GM): brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
62.5	66		GRAVEL with Silt and Sand (GW-GM): moderate brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.
TOTAL DEPTH OF BORING 66 (Feet)			
TOTAL DEPTH OF COMPLETED WELL 66 (Feet)			

WELL OWNER	
Name Masonite International	
Mailing Address 1955 Powis Road	
West Chicago	Illinois 60185
CITY	STATE ZIP
WELL LOCATION	
Address 300 Ford Road	
City Ukiah	
County Mendocino	
APN Book 170 Page 170 Parcel 006	
Township _____ Range _____ Section _____	
Latitude _____ NORTH _____ WEST	Longitude _____ DEG. MIN. SEC. _____
LOCATION SKETCH	
	
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.	
WATER LEVEL & YIELD OF COMPLETED WELL	
DEPTH TO FIRST WATER 15 (FL) BELOW SURFACE	
DEPTH OF STATIC WATER LEVEL n.a. (FL) & DATE MEASURED n.a.	
ESTIMATED YIELD * n.a. (GPM) & TEST TYPE n.a.	
TEST LENGTH n.a. (Hrs) TOTAL DRAWDOWN n.a. (FL)	
* May not be representative of a well's long-term yield.	

DEPTH FROM SURFACE	BORE-HOLE DIA. (inches)	CASING (S)					
		TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (inches)
FL	to	FL	BLANK	SCREEN	CON- DUCTOR		
-	-	-					
0.6	55.5	8	✓			PVC	2
55.5	65.5	8		✓		PVC	2
65.5	66.0	8	✓			PVC	2

DEPTH FROM SURFACE	ANNULAR MATERIAL			
	TYPE			
FL	to	FL	CE- MENT (✓)	BEN- TONITE (✓)
0	48.0		✓	
48.0	53.0			✓
53.0	66.0			✓

ATTACHMENTS (✓)

____ Geologic Log

____ Well Construction Diagram

____ Geophysical Log(s)

____ Soil/Water Chemical Analyses

____ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**

PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

3645 Westwind Boulevard

ADDRESS

Santa Rosa

CITY

California

STATE

95403

ZIP

Signed **[Signature]**

WELL DRILLER/AUTHORIZED REPRESENTATIVE

9/11/05

DATE SIGNED

780357

C-57 LICENSE NUMBER

Appendix D:

Monitoring Well MUF-A06-06 Information

Unified Soil Classification System Chart and Boring Log Legend

Boring Log

Well Completion Diagram

DWR-188 Well Completion Report

Well Development Record

Well Survey Report

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES	
			GRAPHIC	LETTER		
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures	
				GP	Poorly Graded Gravels, Gravel - Sand mixtures	
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures	
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures	
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands	
				SP	Poorly Graded Sands, Gravelly Sands	
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures	
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures	
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity	
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays	
				OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts	
				CH	Inorganic Clays of High Plasticity, Fat Clays	
				OH	Organic Clays of Medium to High Plasticity	
Highly Organic Soils			PT	Peat and Other Highly Organic Soils		
Bedrock			BR	Bedrock		
Aggregate Base			B	Mixed Fill		
Asphalt			A	Asphalt		
Concrete			C	Concrete		
Soil sample submitted for chemical analysis Soil sample examined for soil classification Sampler Type CMSS = CA Modified Split Spoon SPT = Standard Penetration Test CBS = Continuous Barrel Sampler DP = Direct Push Sampler GRAB = Grab Sample HA = Hand Auger Initial Static Water Level First Identified Free Water n.a. = not applicable n.r. = not recorded						
SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769			UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.01			Figure: Appendix D D-1 1 of 1

Date (start, end): 5/3/06 - 5/3/06 Drilling Time (start, end) 10:30 - 14:00 Logged By: Stephen Knüttel Checked By: Stephen Knüttel	Boring No. MUF-A06-06 Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: Clear Heart Drilling, Inc. Driller's Name: Chris Herrell Drilling Method: 8-in. Hollow-Stem Auger Sampling Method: CMSS Hammer weight / fall: 140 lbs / 30 inch Notes: Inside Main Production Facility	
MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: 15.0 Total Depth, ft: 16.5	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.6							
								615.1							CONCRETE over base rock.
								614.6	1						CLAY with Gravel(CL): brown, fine to medium grained sand and fine and coarse gravel, moist (FILL).
									2						
								612.6	3						SANDY CLAY with Gravel(CL): gray to brown, fine to medium grained sand and fine and coarse gravel, moist to wet.
						No	No		4						
									5		20	20	30	30	Wet.
									6		20	20	30	30	
									6		20	20	30	30	
								608.6	7						SILTY SAND with Gravel(SM): gray to brown, fine to coarse grained sand and fine and coarse gravel, minor clay, wet.
									8						
									9						
						?	?		10		20	40	30	10	
					20				10		20	40	30	10	
									11		20	40	30	10	

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/18/06

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

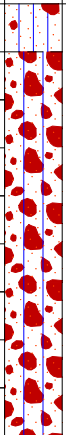
BORING LOG MUF-A06-06

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

MUF-A06-06

1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↕	↕	603.1	13						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
									14						
						No	No		15		50	20	20	10	
					0				16		50	20	20	10	
						↕	↕	599.1	16		50	20	20	10	TOTAL DEPTH = 16.5 FEET
									17						
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A06-06

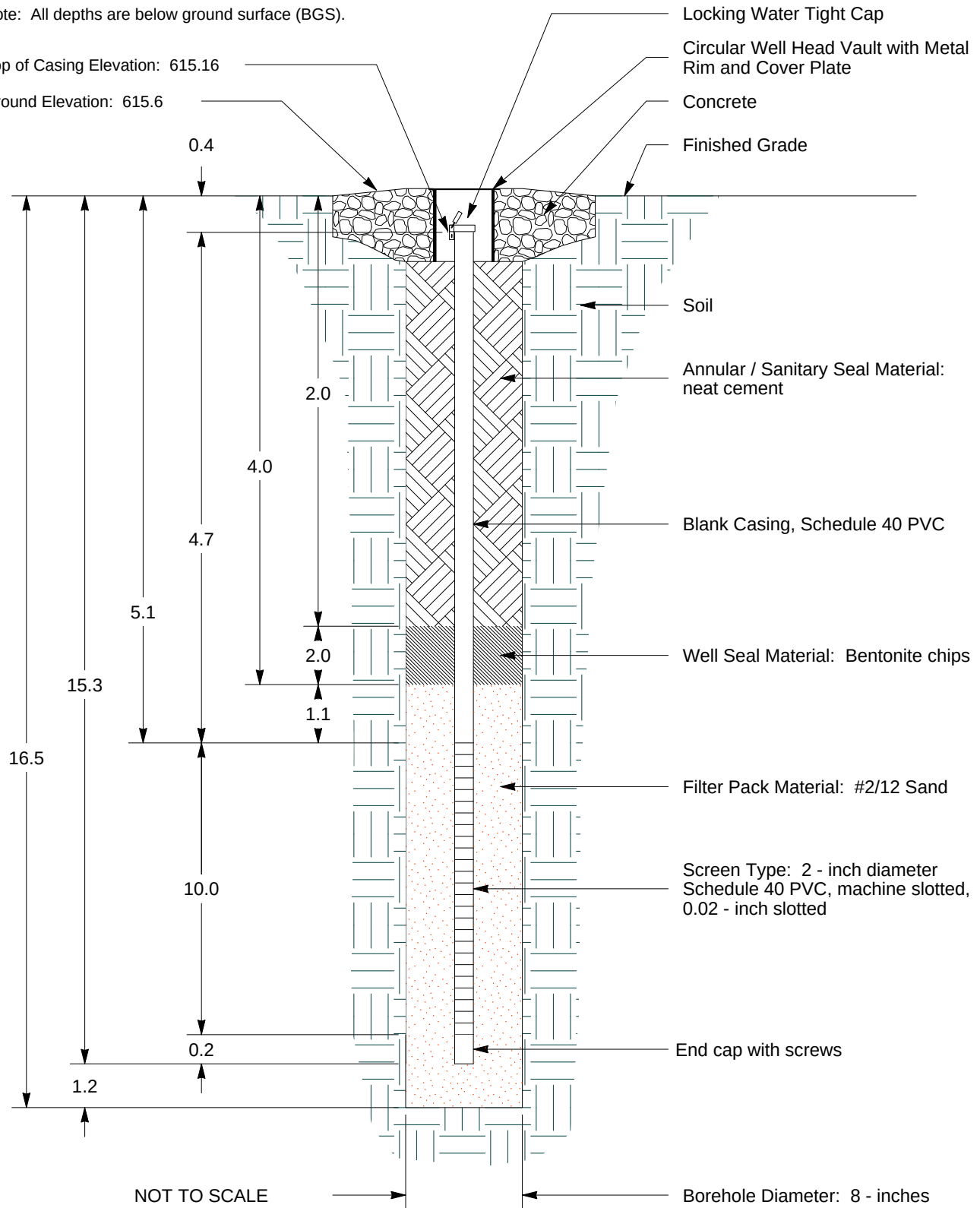
Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

MUF-A06-06

2 of 2

Ground Elevation: 615.6

Appendix D
MUF-A06-06

ORIGINAL
File with DWR
Page 1 of 1

STATE OF CALIFORNIA
WELL COMPLETION REPORT
Refer to Instruction Pamphlet

Owner's Well No. MUF-A06-06
Date Work Began 05/03/06 Ended 05/03/06
Local Permit Agency Mendocino County Environmental Health
Permit No. 23-5189 Permit Date 04/28/06

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.									
LATITUDE					LONGITUDE				
APN/TRS/OTHER									

GEOLOGIC LOG				WELL OWNER			
ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE (SPECIFY)				Name <u>Masonite International</u>			
DRILLING METHOD <u>Hollow-Stem Auger</u> FLUID <u>n.a.</u>				Mailing Address <u>1955 Powis Road</u>			
DESCRIPTION				City <u>West Chicago</u> State <u>Illinois</u> ZIP <u>60185</u>			
Describe material, grain size, color, etc.				WELL LOCATION			
Address <u>300 Ford Road</u>				City <u>Ukiah</u>			
County <u>Mendocino</u>				APN Book <u>170</u> Page <u>190</u> Parcel <u>006</u>			
Township _____ Range _____ Section _____				Latitude _____ North Longitude _____ West			
LOCATION SKETCH				ACTIVITY (✓)			
NORTH				☒ NEW WELL			
WEST				MODIFICATION/REPAIR			
EAST				☐ Deepen			
SOUTH				☐ Other (Specify) _____			
Illustrate or Describe Distance of Well from Roads, Buildings, Fences, Rivers, etc. and attach a map. Use additional paper if necessary. PLEASE BE ACCURATE & COMPLETE.				DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")			
WATER LEVEL & YIELD OF COMPLETED WELL				PLANNED USES (✓)			
DEPTH TO FIRST WATER <u>5</u> (Ft.) BELOW SURFACE				WATER SUPPLY			
DEPTH OF STATIC WATER LEVEL <u>n.a.</u> (Ft.) & DATE MEASURED <u>n.a.</u>				☐ Domestic ☐ Public			
ESTIMATED YIELD * <u>n.a.</u> (GPM) & TEST TYPE <u>n.a.</u>				☐ Irrigation ☐ Industrial			
TEST LENGTH <u>n.a.</u> (Hrs.) TOTAL DRAWDOWN <u>n.a.</u> (Ft.)				MONITORING ☒			
* May not be representative of a well's long-term yield.				TEST WELL ☐			
				CATHODIC PROTECTION ☐			
				HEAT EXCHANGE ☐			
				DIRECT PUSH ☐			
				INJECTION ☐			
				VAPOR EXTRACTOR ☐			
				SPARGING ☐			
				REMEDICATION ☐			
				OTHER (SPECIFY) _____			

DEPTH FROM SURFACE		BORE-HOLE DIA. (inches)	CASING (S)							
Ft.	to Ft.		TYPE (✓)	MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)			
-	-	-	BLANK	SCREEN	CON- DUCTOR	FILL PIPE				
0.4	5.1	8	✓				PVC	2	0.25	
5.1	15.1	8		✓			PVC	2	0.25	0.02
15.1	15.3	8	✓				PVC	2	0.25	

DEPTH FROM SURFACE		ANNULAR MATERIAL			
Ft.	to Ft.	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	2.0	✓			
2.0	4.0		✓		
4.0	16.5			✓	#2/12 Sand

TOTAL DEPTH OF BORING 16.5 (Feet)
TOTAL DEPTH OF COMPLETED WELL 15.3 (Feet)

DEPTH FROM SURFACE		BORE-HOLE DIA. (inches)	CASING (S)							
Ft.	to Ft.		TYPE (✓)	MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)			
-	-	-	BLANK	SCREEN	CON- DUCTOR	FILL PIPE				
0.4	5.1	8	✓				PVC	2	0.25	
5.1	15.1	8		✓			PVC	2	0.25	0.02
15.1	15.3	8	✓				PVC	2	0.25	

DEPTH FROM SURFACE		ANNULAR MATERIAL			
Ft.	to Ft.	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0	2.0	✓			
2.0	4.0		✓		
4.0	16.5			✓	#2/12 Sand

ATTACHMENTS (✓)		CERTIFICATION STATEMENT	
☐ Geologic Log ☐ Well Construction Diagram ☐ Geophysical Log(s) ☐ Soil/Water Chemical Analyses ☐ Other _____		I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.	
ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.		NAME <u>SCS Engineers</u> PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)	
		ADDRESS <u>3645 Westwind Boulevard</u> Santa Rosa California 95403 CITY STATE ZIP	
		Signed <u>SK</u> 17 MAY 05 780357 WELL DRILLER/AUTHORIZED REPRESENTATIVE DATE SIGNED C-57 LICENSE NUMBER	

Appendix C:

Monitoring Well MUF-A06-06 Information

Unified Soil Classification System Chart and Boring Log Legend

Boring Log

Well Completion Diagram

DWR-188 Well Completion Report

Well Development Record

Well Survey Report

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES	
			GRAPHIC	LETTER		
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures	
				GP	Poorly Graded Gravels, Gravel - Sand mixtures	
		Gravel with more than 12% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures	
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures	
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands	
				SP	Poorly Graded Sands, Gravelly Sands	
		Sand with more than 12% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures	
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures	
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity	
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays	
				OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts	
				CH	Inorganic Clays of High Plasticity, Fat Clays	
				OH	Organic Clays of Medium to High Plasticity	
Highly Organic Soils			PT	Peat and Other Highly Organic Soils		
Bedrock			BR	Bedrock		
Aggregate Base			B	Mixed Fill		
Asphalt			A	Asphalt		
Concrete			C	Concrete		
 Soil sample submitted for chemical analysis  Soil sample examined for soil classification Sampler Type CMSS = CA Modified Split Spoon SPT = Standard Penetration Test CBS = Continuous Barrel Sampler DP = Direct Push Sampler GRAB = Grab Sample HA = Hand Auger  Initial Static Water Level  First Identified Free Water n.a. = not applicable n.r. = not recorded						
SCS ENGINEERS Environmental Consultants 3645 Westwind Boulevard Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769			UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility 300 Ford Road Ukiah, California 95482 Job Number: 01203377.01			Figure: Appendix D D-1 1 of 1

Date (start, end): 5/3/06 - 5/3/06 Drilling Time (start, end) 10:30 - 14:00 Logged By: Stephen Knüttel Checked By: Stephen Knüttel	Boring No. MUF-A06-06 Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: Clear Heart Drilling, Inc. Driller's Name: Chris Herrell Drilling Method: 8-in. Hollow-Stem Auger Sampling Method: CMSS Hammer weight / fall: 140 lbs / 30 inch Notes: Inside Main Production Facility	
MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: 15.0 Total Depth, ft: 16.5	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.6							
								615.1							CONCRETE over base rock.
								614.6	1						CLAY with Gravel(CL): brown, fine to medium grained sand and fine and coarse gravel, moist (FILL).
									2						
								612.6	3						SANDY CLAY with Gravel(CL): gray to brown, fine to medium grained sand and fine and coarse gravel, moist to wet.
						No	No		4						
									5		20	20	30	30	Wet.
									6		20	20	30	30	
									7		20	20	30	30	
								608.6	7						SILTY SAND with Gravel(SM): gray to brown, fine to coarse grained sand and fine and coarse gravel, minor clay, wet.
									8						
									9						
									10		20	40	30	10	
									11		20	40	30	10	
											20	40	30	10	

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 05/18/06

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A06-06

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

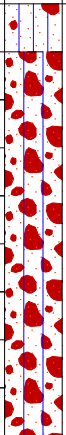
MUF-A06-06

1 of 2

Appendix A:

Laboratory Analytical Reports

Analytical Sciences Report # 6022211, dated March 24, 2006
Analytical Sciences Report # 6050117, (revised), dated June 16, 2006
Analytical Sciences Report # 6050201, dated May 4, 2006
Analytical Sciences Report # 6050306, dated May 4, 2006
Analytical Sciences Report # 6050408, dated May 5, 2006
Analytical Sciences Report # 6050801, dated May 9, 2006
Analytical Sciences Report # 6050308, dated May 15, 2006
Analytical Sciences Report # 6050802, dated May 15, 2006

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↕	↕	603.1	13						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.
									14						
						No	No		15		50	20	20	10	
					0				16		50	20	20	10	
								599.1	16		50	20	20	10	TOTAL DEPTH = 16.5 FEET
									17						
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

Environmental Consultants
 3645 Westwind Boulevard
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A06-06

Former Masonite Facility
 300 Ford Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

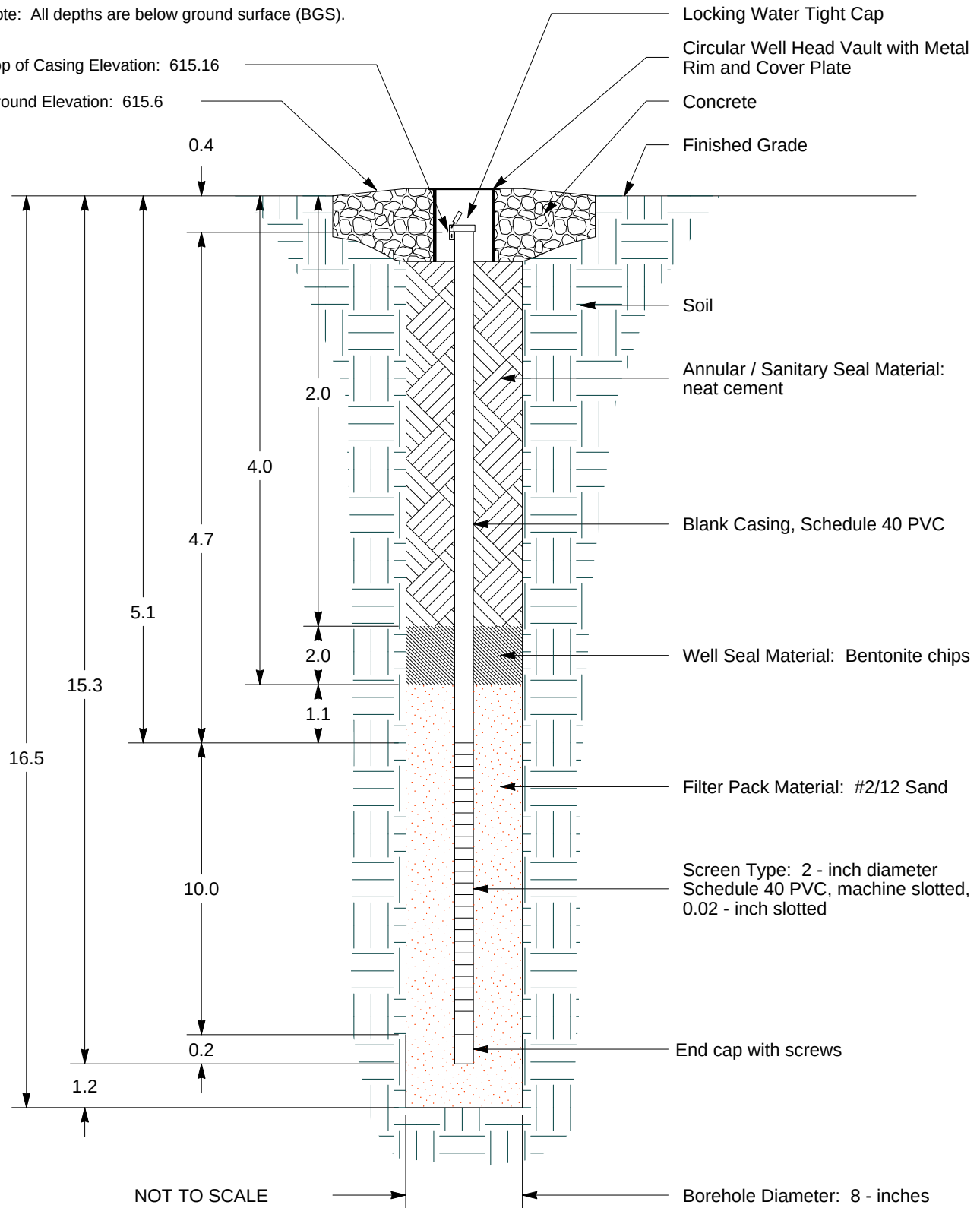
MUF-A06-06

2 of 2

Note: All depths are below ground surface (BGS).

Top of Casing Elevation: 615.16

Ground Elevation: 615.6



SCS ENGINEERS

Environmental Consultants
3645 Westwind Boulevard
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

WELL COMPLETION DIAGRAM FOR MUF-A06-06

Former Masonite Facility
300 Ford Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

Appendix D
MUF-A06-06

Permit No. 23-5189 Permit Date 04/28/06

Refer to Instruction Pamphlet

No. 1072907

DWR USE ONLY - DO NOT FILL IN
 STATE WELL NO./STATION NO.
 LATITUDE LONGITUDE
 APN/TRS/OTHER

WELL OWNER

ORIENTATION (✓) ☒ VERTICAL ☐ HORIZONTAL ☐ ANGLE ☐ (SPECIFY)			Name Masonite International		
DRILLING METHOD Hollow-Stem Auger FLUID n.a. DESCRIPTION <i>Describe material, grain size, color, etc.</i>			Mailing Address 1955 Powis Road		
			West Chicago Illinois 60185 CITY STATE ZIP		
DEPTH FROM SURFACE Ft. to Ft.			WELL LOCATION		
			Address 300 Ford Road		
0.5 1 FILL. 1 3 CLAY with Gravel (CL): brown, fine to medium grained sand and fine and coarse gravel, moist. 3 7 SANDY CLAY with Gravel (CL): gray to brown, fine to medium grained sand and fine and coarse gravel, moist to wet. 5 Wet. 7 12.5 SILTY SAND with Gravel (SM): gray to brown, fine to coarse grained sand and fine and coarse gravel, minor clay, wet. 12.5 16.5 GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to coarse grained sand, wet.			City Ukiah County Mendocino APN Book 170 Page 190 Parcel 006 Township _____ Range _____ Section _____ Latitude _____ DEG. MIN. SEC. NORTH Longitude _____ DEG. MIN. SEC. WEST		
			LOCATION SKETCH		
			ACTIVITY (✓) ☒ NEW WELL MODIFICATION/REPAIR ☐ Deepen ☐ Other (Specify) _____ ☐ DESTROY (Describe Procedures and Materials Under "GEOLOGIC LOG")		
			PLANNED USES (✓) WATER SUPPLY ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial MONITORING ☒ TEST WELL _____ CATHODIC PROTECTION _____ HEAT EXCHANGE _____ DIRECT PUSH _____ INJECTION _____ VAPOR EXTRACTOR _____ SPARGING _____ REMEDIATION _____ OTHER (SPECIFY) _____		
			WATER LEVEL & YIELD OF COMPLETED WELL DEPTH TO FIRST WATER 5 (Ft.) BELOW SURFACE DEPTH OF STATIC WATER LEVEL n.a. (Ft.) & DATE MEASURED n.a. ESTIMATED YIELD * n.a. (GPM) & TEST TYPE n.a. TEST LENGTH n.a. (Hrs.) TOTAL DRAWDOWN n.a. (Ft.) * May not be representative of a well's long-term yield.		
			TOTAL DEPTH OF BORING 16.5 (Feet) TOTAL DEPTH OF COMPLETED WELL 15.3 (Feet)		

DEPTH FROM SURFACE			BORE-HOLE DIA. (inches)	CASING (S)											
				TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)				
Ft.	to	Ft.		BLANK	SCREEN	CON- DUCTOR	FILL PIPE								
-		-										-	-		
0.4		5.1		8	✓							PVC	2	0.25	
5.1		15.1		8		✓						PVC	2	0.25	0.02
15.1		15.3	8	✓			PVC	2	0.25						

DEPTH FROM SURFACE			ANNULAR MATERIAL			
			TYPE			
Ft.	to	Ft.	CE- MENT ($\angle$)	BEN- TONITE ($\angle$)	FILL ($\angle$)	FILTER PACK (TYPE/SIZE)
0		2.0	✓			
2.0		4.0		✓		
4.0		16.5			✓	#2/12 Sand

-CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**
PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

3645 Westwind Boulevard
ADDRESS

Santa Rosa
CITY

California	95403
STATE	ZIP

Signed _____
WELL DRILLER/AUTHORIZED REPRESENTATIVE

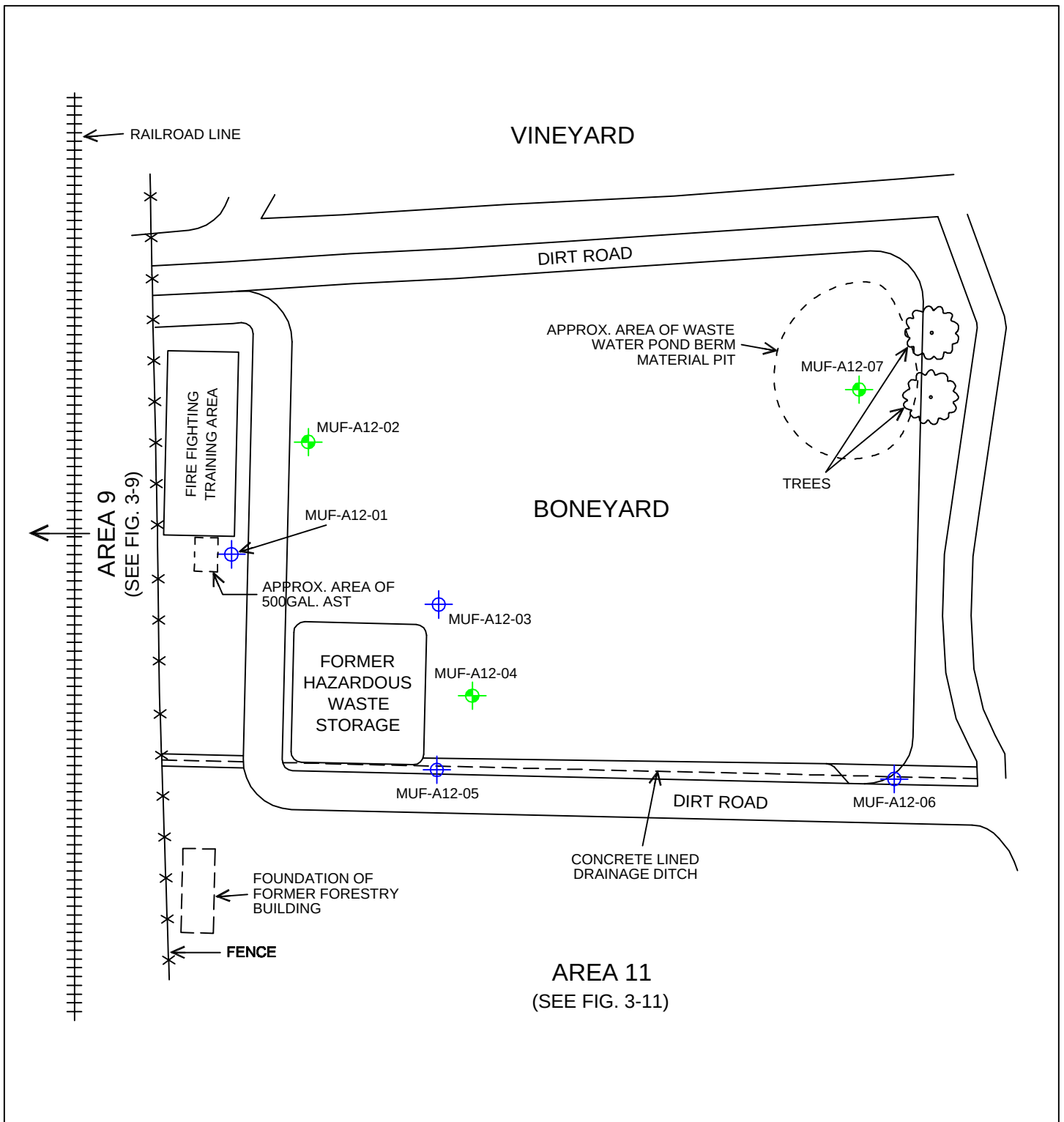
17 MAY 05
DATE SIGNED

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS.

Appendix D

Available Boring Logs

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 15% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 15% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	
Soil sample submitted for chemical analysis Soil sample examined for soil classification Sampler Type CBS = Continuous Barrel Sampler CMSS = CA Modified Split Spoon DP = Direct Push Sampler GRAB = Grab Sample HA = Hand Auger HP = Hydropunch SPT = Standard Penetration Test Initial Static Water Level First Identified Free Water n.a. = not applicable n.r. = not recorded					
SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769		UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.04			
		Figure: Appendix C C-1 1 of 1			



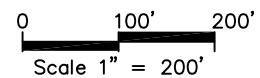
LEGEND



Boring Location



Monitoring Well Location



SCS ENGINEERS

3645 WESTWIND BOULEVARD
SANTA ROSA, CA 95403
Ph. (707) 546-9461
Fax (707) 544-5769

AREA 12 - Boneyard

With Boring and Monitoring Well Locations

Former Masonite Facility
300 Ford Road
Ukiah, California

FIGURE:

3-12

FILENAME:

3377.00-3.12-3224

DRAWN BY:

ALP

APPROVED. BY:

SK

GPS DATE:

REVISIONS:

DATE:

6/10/04

Boring Location: See site map

Drilling Time (start, end) 13:55 - 14:40

MUF-A12-01

Logged By: Stephen Knüttel

Checked By:

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

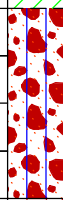
Drilling Method: 7-in Hollow-Stem Auger

Auger Depth, ft: 10.0 Total Depth, ft: 11.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:			
			CMSS		0	↑	↑	615.0							TOPSOIL AND GRAVEL BASE.			
⊠	6	8										1						
⊠	6	7										2						
■	6	7						612.5			5	35	60		CLAY (CL): dark brown, minor fine grained sand, moist, silty.			
			CMSS		0				3									
												4						
⊠	6	5										5				30	70	
■	6	9				No	No		6			30	70	Brown mottled with yellowish brown.				
⊠	6	10							6			30	70					
			CMSS		0	↓	↓	605.5			50	10	20	20		GRAVEL with Silt and Sand (GW-GM): brown to reddish brown, fine and coarse gravel, fine to coarse grained sand, moist to wet.		
⊠	6	18										10	50	20			20	10
⊠	6	22										11	50	20			20	10
■	6	23						603.5			50	20	20	10				
									12						TOTAL DEPTH = 11.5 FEET			

SCS ENGINEERS

Environmental Consultants
3843 Brickway Boulevard, Suite 208
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A12-01

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.04

Figure:

MUF-A12-01

1 of 1

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 07/28/08

Date (start, end): 3/31/04 - 3/31/04
Boring No.
Boring Location: See site map

Drilling Time (start, end) 09:34 - 10:33
MUF-A12-02

Logged By: Gary S. Johnson
See Unified Soil Classification System (USCS) for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.
MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Rick Schneider
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Drilling Method: 8-in Hollow-Stem Auger
Auger Depth, ft: 20.0 Total Depth, ft: 20.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes: Plug came off at 20'; left plug in hole. Can't sample @ 20' due to plug

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.2							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
								613.2	2				20	80	CLAY (CL): dark gray, abundant wood chips.
									3				20	80	
					0				4				20	80	
									5						
									6				20	80	
					0	No	No		7				20	80	
									8						
									9						
								605.5	10			30	30	40	SANDY SILT (ML): brown.
								605.1	11		5	50	45		SILTY SAND (SM): brown.
					0			604.7			40	40	20		GRAVEL with Silt and Sand (GW-GM): brown.

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/28/08

SCS ENGINEERS

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Santa Rosa, California 95403
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BORING LOG MUF-A12-02

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.04

Figure:

MUF-A12-02

1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6	19	CMSS	V	0	No	No	601.7	13		60	10	20	10	GRAVEL with Clay (GM-GC): moist to wet, silty, moisture in voids.
	6	24							14						
	6	22							15						
									16						
									17						
									18						
									19						
								595.2	20						TOTAL DEPTH = 20.0 FEET
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

Environmental Consultants
 3843 Brickway Boulevard, Suite 208
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A12-02

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.04

Figure:

MUF-A12-02

2 of 2

Date (start, end): 3/31/04 - 3/31/04 Drilling Time (start, end) 14:02 - 14:25 Logged By: Gary S. Johnson Checked By:	Boring No. MUF-A12-03	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
---	---------------------------------	--

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Rick Schneider</u> Drilling Method: <u>4-in Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>9.5</u> Total Depth, ft: <u>11.0</u>
--	--

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								614.0							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
								612.0	2				10	90	CLAY (CL): gray then brown.
					0				3				10	90	
									4				10	90	
									5				10	90	
						No	No		6				10	90	
					0				7						
									8						
									9						
									10		T	10	20	70	
									11		5	15	35	45	
					0			603.5			40	20	20	20	CLAYEY GRAVEL with Sand and Silt (GC-GM): brown.
								603.0							
															TOTAL DEPTH = 11.0 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/28/08

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A12-03 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.04	Figure: MUF-A12-03 1 of 1
--	---	---

Boring Location: See site map

Drilling Time (start, end)	12:00 - 12:47
----------------------------	---------------

MUF-A12-04

Logged By: Gary S. Johnson

Checked By:

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Driller's Name: Rick Schneider

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

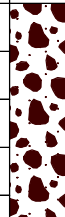
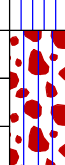
Drilling Method: 8-in Hollow-Stem Auger

Auger Depth, ft: 20.0 Total Depth, ft: 21.5

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:									
			CMSS		0	↑	↑	612.5							SAND and GRAVEL BASE: brown, with silt (Fill).									
⊠	2	4																						
■	6	6																						
⊠	6	10	CMSS		0	No	No	610.0	1				40	60	CLAY (CL): gray to brown, silty.									
⊠	3	4																						
■	6	7	CMSS		0	No	No		2				40	60	Brown with gray mottling.									
⊠	6	11																						
			CMSS		0				3															
⊠	5	9																						
■	6	19	CMSS		0			602.5	4		20	20	45	15	SANDY SILT with Gravel (ML): brown.									
⊠	6	22																						
								602.0	5		40	15	25	20	SILTY GRAVEL with Sand and Clay (GM-GC): brown with gray sand, wet in voids.									

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Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

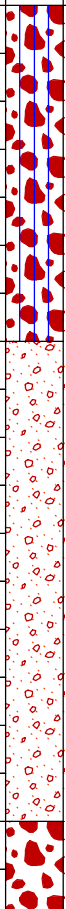
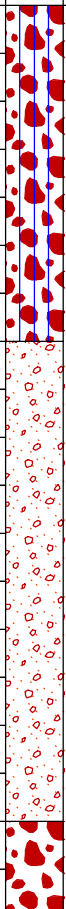
BORING LOG MUF-A12-04

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.04

Figure:

MUF-A12-04

1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS	K	0	No	No	597.0	13		10	85	5	SAND (SW): brown. Variable gravel content.	
	6	11							14		15	80	5		
	6	19							15		20	80	T		
			CMSS			No	No	592.0	16		10	85	5	SAND with Gravel (GW): brown.	
	6	17							17		45	50	5		
	6	30							18		50	45	5		
								591.0	19						TOTAL DEPTH = 21.5 FEET
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

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 Santa Rosa, California 95403
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BORING LOG MUF-A12-04

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.04

Figure:

MUF-A12-04

2 of 2

Date (start, end): 3/31/04 - 3/31/04
Boring No.
Boring Location: See site map

Drilling Time (start, end) 15:07 - 15:39
MUF-A12-05

Logged By: Gary S. Johnson
See Unified Soil Classification System (USCS) for Legend and information not noted.

Checked By:

Drilling Contractor: Clear Heart Drilling, Inc.
MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Rick Schneider
Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 4-in Solid-Stem Auger
Auger Depth, ft: 9.5 Total Depth, ft: 11.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
															SAND and GRAVEL BASE: brown, with silt (Fill).
	6	3	CMSS						1						CLAY (CL): brown, moist to wet, silty.
	6	4						610.0	2			35	65		
	6	5			0				3			35	65		
									4						Brown, root tracings, dry.
	6	4	CMSS						5			10	90		
	6	9				No	No		6			10	90		
	6	14							7			10	90		
					0				8						
									9						
	4	10	CMSS					602.0	10		15	15	20	50	GRAVEL with Silt and Sand (GW-GM): gray.
	6	12							11		40	30	30		
	6	16			0			601.0			40	30	30		
															TOTAL DEPTH = 11.0 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/28/08

SCS ENGINEERS

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3843 Brickway Boulevard, Suite 208
Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A12-05

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.04

Figure:

MUF-A12-05

1 of 1

Date (start, end): 3/31/04 - 3/31/04 Drilling Time (start, end) 16:01 - 16:22 Logged By: Gary S. Johnson Checked By:	Boring No. MUF-A12-06	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
---	---------------------------------	--

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Rick Schneider</u> Drilling Method: <u>4-in Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>9.5</u> Total Depth, ft: <u>11.0</u>
--	--

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.0							
									1						SAND and GRAVEL BASE: brown, with silt (Fill).
									2						
								609.5	3		T	10	90		CLAY (CL): dark brown.
					0				4		T	10	90		
									5		T	10	90		
									6		T	15	85		
									7		T	15	85		
					0	No	No		8		T	15	85		Brown.
									9						
									10		T	30	70		
									11		T	30	70		Moist to wet.
					0			601.0			T	30	70		Gray with rust mottling.
															TOTAL DEPTH = 11.0 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/28/08

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A12-06 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.04	Figure: MUF-A12-06 1 of 1
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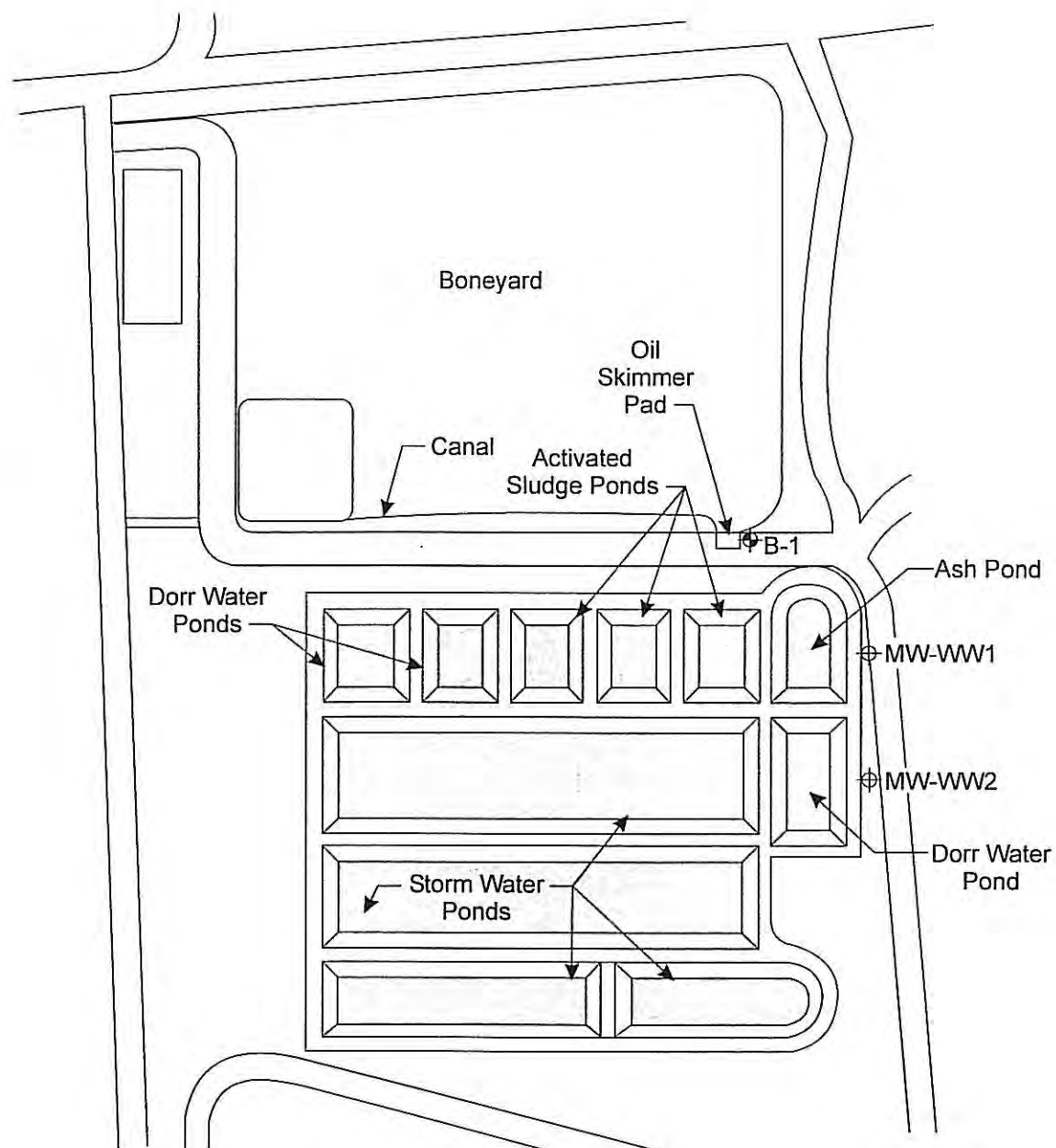
Date (start, end): 4/13/04 - 4/13/04 Drilling Time (start, end) 15:00 - 16:30 Logged By: Stephen Knüttel Checked By:	Boring No. MUF-A12-07	Boring Location: See site map See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>8-in Hollow-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>20.0</u> Total Depth, ft: <u>20.0</u>
---	--

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								612.6							
								611.6	1						GRAVEL BASE.
									2						FILL: ash, cinders, silty sand matrix, with roots.
									3						
									4						
									5						
					0	No	No		6						
									7						
									8						
									9						
									10						Abundant clinker material.
								602.3	11		50	20	10	20	CLAYEY GRAVEL (GC): dark greenish gray, fine and coarse gravel, fine to coarse grained sand, moist to wet.
					0						50	20	10	20	

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 07/28/08

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A12-07 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.04	Figure: MUF-A12-07 1 of 2
--	---	---



Legend

- ⊕ Monitoring well
- ⊙ Soil boring

Figure 3
Supplemental Investigation Area

Project: IP-Masonite
 Project Location: Ukiah, California
 Project Number: 33756810

Log of Boring B-1

Sheet 1 of 1

Date(s) Drilled	4/15/04	Logged By	ALZ	Checked By	JTG
Drilling Method	Hollow Stem Auger	Drilling Contractor	Clear Heart	Total Depth of Borehole	17 feet
Drill Rig Type	DR-20	Drill Bit Size/Type	6 1/4"	Ground Surface Elevation	
Groundwater Level (feet bgs)	15 ft	Sampling Method	2 1/2" Split Spoon	Hammer Data	140 lb.
Borehole Backfill		Location			

Elevation, feet	Downhole Depth, feet	SAMPLES				Graphic Log	USCS	MATERIAL DESCRIPTION	REMARKS AND OTHER TESTS
		Type	Number	Blows/ 6in.	Recovery (%)	OVM (ppm)			
0							ML	Black SILT, some roots (dry) (based on cuttings)	
		B-1-1.5	6	10		0	ML	Dark gray SILT with fine to medium sand, trace gravel, few reddish brown oxidized lenses to 1/2" (medium dense) (moist) (low plasticity) (no apparent odor or stain)	Sample B-1-1.5 submitted for analysis
		B-1-3	10	10		0		As above (dense)	
5		B-1-5	7	10		0		As above (dense)	Sample B-1-5 submitted for analysis
		B-1-7	7	12		0		As above (dense)	
10		B-1-9	7	14		0		As above (dense)	
		B-1-11	5	6		0	SM/ML	Gray SAND and SILT with fine to medium gravel (loose) (moist) (no apparent odor or stain)	
		B-1-12.5	18	34		0			
15		B-1-14.5	24	38		0	SM	Gray SAND, some silt, trace gravel (very dense) (wet) (no apparent odor or stain)	
		B-1-17	21	50-6"		0		As above Boring was completed to 17' bgs. Groundwater was encountered at 14.5' bgs after 30 minutes in auger. Boring was backfilled with bentonite.	Groundwater sample collected from boring and submitted for analysis
20									
25									
30									

Project: IP-Masonite
 Project Location: Ukiah, California
 Project Number: 33756810

Log of Boring MW-WW1

Sheet 1 of 1

Date(s) Drilled	4/15/04	Logged By	ALZ	Checked By	JTG
Drilling Method	Hollow Stem Auger	Drilling Contractor	Clear Heart	Total Depth of Borehole	20 feet
Drill Rig Type	DR-20	Drill Bit Size/Type	6 1/4"	Ground Surface Elevation	feet
Groundwater Level	14.5 ft	Sampling Method	2 1/2" Split Spoon	Hammer Data	140 lb.
Borehole Backfill	Location				

Elevation, feet	Downhole Depth, feet	SAMPLES				Graphic Log	USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
		Type	Number	Blows/6in.	Recovery (%)	OVM (ppm)				
0							ML/OL	Black to dark brown, organic SILT with roots (moist) (topsoil) (no apparent odor or stain) (based on drill cuttings)		-Cement (0'-3')
										-2" sch. 40 PVC (0'-10')
							ML	Dark brown SILT, trace fine sand (medium dense) (dry) (no apparent odor or stain)		-Bentonite (3'-8')
5		1		6 7 10		0				
							ML	Brown to gray, clayey SILT, trace sand, orange mottling (loose) (moist) (no apparent odor or stain)		-10/20 silica sand (8'-20')
10		2		4 4 6		0				-2" diameter 0.010 slot sch. 40 PVC (10'-20')
							GM/SM	Gray GRAVEL and SAND with silt lenses, interbedded		
15		3		20 24 26		0				
20		4		22 21 29		0		As above Boring was completed to 20' bgs. Groundwater was encountered at 14.5' bgs. Boring was completed as monitoring well.		
25										
30										

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ENV2 WITH WELL T:\ONEWORLD\33756810 MASONITE\IP-MASONITE.GPJ URSSEA3B.GLB URSSEA3.GDT 8/5/04

Project: IP-Masonite
 Project Location: Ukiah, California
 Project Number: 33756810

Log of Boring MW-WW2

Sheet 1 of 1

Date(s) Drilled	4/15/04	Logged By	ALZ	Checked By	JTG
Drilling Method	Hollow Stem Auger	Drilling Contractor	Clear Heart	Total Depth of Borehole	20 feet
Drill Rig Type	DR-20	Drill Bit Size/Type	6 1/4"	Ground Surface Elevation	feet
Groundwater Level	14.5 ft	Sampling Method	2 1/2" Split Spoon	Hammer Data	140 lb.
Borehole Backfill	Location				

Elevation, feet	Downhole Depth, feet	SAMPLES				USCS	MATERIAL DESCRIPTION	Well Completion Schematic	REMARKS AND WELL DETAILS
		Type Number	Blows/ 6in.	Recovery (%)	OVM (ppm)				
0						ML	Brown SILT, significant organic material (moist) (low plasticity) (no apparent odor or stain) (based on drill cuttings)		-Cement (0'-3')
									-2" sch. 40 PVC (0'-10')
									-Bentonite (3'-8')
5		1	6 10 10		0		Brown SILT, trace fine sand, organics (medium dense) (moist) (no apparent odor or stain)		
10		2	6 7 7		0		As above with increasing coarse sediments (medium dense) (moist) (no apparent odor or stain)		-10/20 silica sand (8'-20')
15		3	17 22 28		0	SM CL	Brown, fine SAND with silt (very dense) (wet) (no apparent odor or stain) Brown to light tan CLAY with fine sand (moist) (high plasticity) (no apparent odor or stain)		-2" diameter 0.010 slot sch. 40 PVC (10'-20')
						GM/ SM	Gray SAND with silt interbedded with fine to medium GRAVEL (wet) (no apparent odor or stain)		
20		4	18 24 35		0		Boring was completed to 20' bgs. Groundwater was encountered at 14.5' bgs. Boring was completed as monitoring well.		
25									
30									

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Appendix A

Unified Soil Classification System
with Boring Logs MUF-A06-07
through MUF-A06-11

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES	
			GRAPHIC	LETTER		
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures	
				GP	Poorly Graded Gravels, Gravel - Sand mixtures	
		Gravel with more than 15% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures	
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures	
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands	
				SP	Poorly Graded Sands, Gravelly Sands	
		Sand with more than 15% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures	
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures	
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity	
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays	
				OL	Organic Silts and Organic Silty Clays of Low Plasticity	
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts	
				CH	Inorganic Clays of High Plasticity, Fat Clays	
				OH	Organic Clays of Medium to High Plasticity	
Highly Organic Soils			PT	Peat and Other Highly Organic Soils		
Bedrock			BR	Bedrock		
Aggregate Base			B	Mixed Fill		
Asphalt			A	Asphalt		
Concrete			C	Concrete		
Soil sample submitted for chemical analysis ☒ Soil sample examined for soil classification Sampler Type CBS = Continuous Barrel Sampler CMSS = CA Modified Split Spoon DP = Direct Push Sampler GRAB = Grab Sample HA = Hand Auger HP = Hydropunch SPT = Standard Penetration Test ▼ Initial Static Water Level ▽ First Identified Free Water n.a. = not applicable n.r. = not recorded						
SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769			UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.08			Figure: Appendix A A-1 1 of 1

Date (start, end): 9/11/08 - 9/11/08
Drilling Time (start, end) 08:00 - 09:00
Logged By: Stephen Knüttel
Checked By: Barbara A. Moed

Boring No.

MUF-A06-07

Boring Location: Area 6, S30, W10

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Chris Herrell

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 15.0 Total Depth, ft: 15.0

Sampling Method: NA

Hammer weight / fall: NA

Notes: Lithology logged from cuttings

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↑	↑	615.0							
								614.2							CONCRETE: over base rock.
					0			612.5							SANDY SILT (ML): dark gray, very fine to fine grained sand, moist.
								609.5	5						SILT with Sand (ML): brown, very fine grained sand, minor fine gravel, moist.
					0	No	No	607.0							CLAY with Sand (CL): brown, very fine to medium grained sand, moist.
				▽				602.5	10						CLAYEY GRAVEL (GC): brown, fine to medium grained sand and fine gravel, minor silt, wet.
					0			600.0	15						
						↓	↓								TOTAL DEPTH = 15.0 FEET
									20						

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Santa Rosa, California 95403
Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG MUF-A06-07

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

MUF-A06-07

1 of 1

Date (start, end): 9/11/08 - 9/11/08 Drilling Time (start, end) 09:15 - 10:30 Logged By: Stephen Knüttel Checked By: Barbara A. Moed	Boring No. MUF-A06-08	Boring Location: Area 6, S30, E30 See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Chris Herrell</u> Drilling Method: <u>7-in. Hollow-Stem Auger</u> Sampling Method: <u>NA</u> Hammer weight / fall: <u>NA</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>20.0</u> Total Depth, ft: <u>20.0</u> Temp. Screen (interval/dia./slot): <u>10-20 ft. / 2 in. / 0.02 in.</u>
--	---

Notes: Lithology logged from cuttings

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
								614.2							CONCRETE: over base rock.
					0			613.5							SILT with Sand (ML): brown, very fine to fine grained sand, clayey, moist. Medium gray.
					0			609.5	5						SANDY SILT (ML): gray to brown, very fine to medium grained sand, clayey, moist.
					0	No	No	602.5	10						CLAYEY SAND with Gravel (SC): brown, fine to coarse grained sand and fine and coarse gravel, silty, moist.
				▽	0			599.0	15						GRAVEL with Clay and Sand (GW-GC): brown, fine and coarse gravel and fine to coarse grained sand, moist to wet.
								595.0	20						TOTAL DEPTH = 20.0 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 09/18/08

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A06-08 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: MUF-A06-08 1 of 1
--	--	---

Date (start, end): 9/11/08 - 9/11/08 Drilling Time (start, end) 10:40 - 11:30 Logged By: Stephen Knüttel Checked By: Barbara A. Moed	Boring No. MUF-A06-09	Boring Location: Area 6, N10, E30 See Unified Soil Classification System (USCS) for Legend and information not noted.
---	---------------------------------	--

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Chris Herrell</u> Drilling Method: <u>7-in. Hollow-Stem Auger</u> Sampling Method: <u>NA</u> Hammer weight / fall: <u>NA</u> Notes: Lithology logged from cuttings	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>15.0</u> Total Depth, ft: <u>15.0</u>
---	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
								613.0							EXCAVATION BACKFILL.
					0				5						SANDY SILT (ML): brown, very fine grained sand, clayey, moist. Gray.
					0	No	No	608.0							GRAVEL (GP): gray, fine gravel, moist, minor silt, sand and clay.
					6			606.5	10						SANDY SILT (ML): brown to gray, very fine to fine grained sand, clayey, moist, minor fine gravel.
				▽	0			602.5							GRAVEL with Clay and Sand (GW-GC): brown to gray, fine gravel, fine to medium grained sand, moist to wet, silty.
								600.0	15						TOTAL DEPTH = 15.0 FEET
									20						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 09/18/08

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BORING LOG MUF-A06-09

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

MUF-A06-09

1 of 1

Boring Location: Area 6, N50, E30

Drilling Time (start, end) 11:45 - 12:30

MUF-A06-10

Logged By: Stephen Knüttel

Checked By: Barbara A. Moed

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Chris Herrell

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 20.0 Total Depth, ft: 20.0

Sampling Method: NA

Temp. Screen (interval/dia./slot): 10-20 ft. / 2 in. / 0.02 in.

Hammer weight / fall: NA

Notes: Lithology logged from cuttings

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								615.0							
					0	↑	↑	614.0							EXCAVATION BACKFILL.
									5						SANDY SILT (ML): brown to gray, very fine to fine grained sand, clayey, moist.
								607.5							SILTY GRAVEL (GM): gray to brown, fine gravel, minor fine to medium grained sand, moist.
					0	No	No		10						Hard drilling.
								601.5							GRAVELLY CLAY (CL): brown, fine and coarse gravel, silty, moist.
					0				15						
				▽		↓	↓	595.0	20						
															TOTAL DEPTH = 20.0 FEET

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BORING LOG MUF-A06-10

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

MUF-A06-10

1 of 1

Date (start, end): 9/11/08 - 9/11/08
Boring No.

Drilling Time (start, end) 12:50 - 14:15
MUF-A06-11

Logged By: Stephen Knüttel

Checked By: Barbara A. Moed

Boring Location: Area 6, N0, E0

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

Driller's Name: Chris Herrell

Drilling Method: 7-in. Hollow-Stem Auger

Sampling Method: NA

Hammer weight / fall: NA

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Auger Depth, ft: 15.0 Total Depth, ft: 15.0

Notes: Lithology logged from cuttings

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↑	↑	615.0							
						No	No		5						
									10						
								603.5							
					50			601.5							
						↓	↓	600.0	15						
									20						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 09/18/08

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BORING LOG MUF-A06-11

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

MUF-A06-11

1 of 1

Appendix A

Boring Logs

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 09:50 - 11:00 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-01	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
---	----------------------------	---

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>7.0</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS			No	No	631.0											
								630.6											ASPHALT: over base rock.
	6	20						630.0	1		5	55	30	10	SILTY SAND (SM): gray, fine to medium grained sand, minor fine gravel, moist, with debris. Olive gray, moist to wet.				
	6	14							5	55	30	10							
	6	10						2	5	55	30	10							
	0	4																	
	6	6	CMSS					3	5	55	30	10							
	6	7							5	55	30	10							
			CMSS									626.5							SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	0	12							5										
	6	14							6		30	60	10						
	6	14				30	60	10											
					7				624.0										
									8						TOTAL DEPTH = 7.0 FEET				
									9										
									10										
									11										

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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BORING LOG DS-01

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

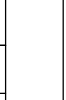
Figure:

DS-01

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 11:05 - 11:25 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-02	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS			↑	↑	631.0											
								630.6											ASPHALT: over base rock.
	6	20						630.0	1		10	50	35	5	SILTY SAND (SM): dark gray to brown, fine to medium grained sand, minor fine gravel, moist, minor debris.				
	6	14				10	50	35	5										
	6	10				10	50	35	5										
	6	2	CMSS			No	No	628.5			10	70	20	SILT (ML): dark gray, minor very fine to fine grained sand, moist to wet, clayey.					
	6	3													10	70	20		
	6	5													10	70	20		
			CMSS			↓	↓	626.5							SILTY SAND (SM): brown, very fine to medium grained sand, minor fine gravel, moist.				
	6	14												10		40	30	20	
	6	12												10		40	30	20	
	6	12									10	40	30	20					
								624.5	7						TOTAL DEPTH = 6.5 FEET				
									8										
									9										
									10										
									11										

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS

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 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG DS-02

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

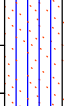
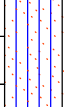
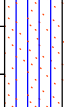
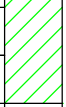
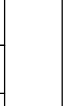
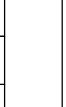
DS-02

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 11:25 - 11:45 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-03	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
---	---

Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								631.0							
								630.6							ASPHALT: over base rock.
	6	11	CMSS					630.0	1		10	30	40	20	SANDY SILT (ML): dark gray to brown, very fine to medium grained sand, minor fine gravel, moist.
	6	13							2		10	30	40	20	
	6	14							3		10	30	40	20	
	6	6	CMSS			No	No				10	30	40	20	
	6	6							4		10	30	40	20	
	6	8							5		10	30	40	20	
								626.5							CLAY (CL): brown mottled with light gray, silty, moist.
	6	12	CMSS						5		5	45	50		TOTAL DEPTH = 6.5 FEET
	6	8							6		5	45	50		
	6	8							7		5	45	50		
								624.5							
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-03 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-03 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:15 - 12:30 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-04	Boring Location: Former location of smaller Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								629.0							
								628.6							ASPHALT: over base rock.
	6	12	CMSS					628.0	1		15	50	30	5	SILTY SAND (SM): dark gray, fine to medium grained sand, fine gravel, moist.
	6	14						627.0	2		15	50	30	5	CLAY (CL): brown, minor fine to medium grained sand and fine gravel, moist.
	6	14									20	10	30	40	
	6	12	CMSS			No	No	625.5	3		20	10	30	40	
	6	11							4		10	30	50	10	SANDY SILT (ML): brown to reddish brown, moist.
			CMSS					624.0	5		10	30	50	10	
	6	10									5	35	60		CLAY (CL): brown to reddish brown, silty, moist.
	6	17									5	35	60		
	6	24									5	35	60		
								622.5	6						
									7						TOTAL DEPTH = 6.5 FEET
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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BORING LOG DS-04

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

DS-04

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:40 - 12:55 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-05	Boring Location: Former location of smaller Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:	
			CMSS			↑	↑	629.0							ASPHALT: over base rock.	
	6	12						628.6			1		30	50	20	SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	6	13						628.0			2		30	50	20	
	6	12	CMSS					626.5			30	50	20		SANDY CLAY (CL): brown, very fine to fine grained sand, moist.	
	6	8						3		30	30	40				
	6	10			No	No		4		30	30	40				
	6	10	CMSS													
						624.5			5		T	20	80		CLAY (CL): brown, silty, moist.	
	6	10						6		T	20	80				
	6	14						622.5								
						↓	↓		7						TOTAL DEPTH = 6.5 FEET	
									8							
									9							
									10							
									11							

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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Date (start, end): 11/25/08 - 11/25/08
 Drilling Time (start, end) 14:20 - 14:40
 Logged By: Stephen Knüttel
 Checked By: Steven Clements

Boring No.
DS-06

Boring Location: Former Borrow Pit

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 7.5 Total Depth, ft: 9.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								617.0							
									1						
									2						
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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BORING LOG DS-06

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

DS-06

1 of 1

Date (start, end): 11/25/08 - 11/25/08
 Drilling Time (start, end) 15:00 - 15:30
 Logged By: Stephen Knüttel
 Checked By: Steven Clements

Boring No.
DS-07

Boring Location: Former Borrow Pit

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 7.5 Total Depth, ft: 9.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								617.0							
								616.7	1						TOPSOIL. ASH black.
	0	2	CMSS						2						Silt to very fine grained sand size.
	5	2							3						
	1	1							4						
									5						Ash and clincker.
	0	3	CMSS			No	No		6						
	6	3							7						
	5	4							8						
									9						
	0	10	CMSS					608.5	10						
	6	9							11						
	6	7						608.0			5	25	70		CLAY (CL): greenish gray, moist, minor silt to very fine grained sand sized ash.
															TOTAL DEPTH = 9.0 FEET

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BORING LOG DS-07

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

DS-07

1 of 1

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

Date (start, end): 11/25/08 - 11/25/08
 Drilling Time (start, end) 15:40 - 16:00
 Logged By: Stephen Knüttel
 Checked By: Steven Clements

Boring No.
DS-08

Boring Location: Former Borrow Pit

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 7.5 Total Depth, ft: 9.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								616.0							
									1						
									2						
									3						
									4						
						No	No		5						
									6						
									7						
									8						
								607.7	9						
								607.0	10						
									11						

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BORING LOG DS-08

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

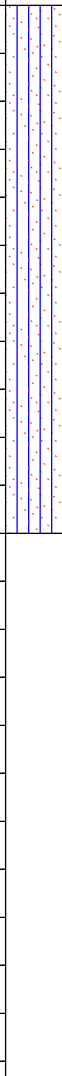
DS-08

1 of 1

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 17:10 - 17:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-09	Boring Location: Former Irrigation Field A See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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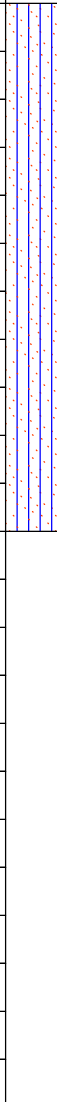
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	612.0							SANDY SILT (ML): brown, very fine to fine grained sand, clayey, moist.
			HA			No	No		1						
	6								2						
			HA						3						
	6								4						
								5							TOTAL DEPTH = 5.5 FEET
						↓	↓	606.5	5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 16:50 - 17:05 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-10	Boring Location: Former Irrigation Field A See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	612.0							SANDY SILT (ML): brown, very fine to fine grained sand, clayey, moist.
	6		HA			No	No		1						
			HA			No	No		2						
			HA			No	No		3						
	6		HA			No	No		4						
						↓	↓	606.5	5						TOTAL DEPTH = 5.5 FEET
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-10 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-10 1 of 1
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Date (start, end): 11/25/08 - 11/25/08
Drilling Time (start, end) 16:45 - 17:10
Logged By: Stephen Knüttel
Checked By: Steven Clements

Boring No.
DS-11

Boring Location: Former Pond 6

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 3-in. Hand Auger

Auger Depth, ft: 5.5 Total Depth, ft: 5.5

Sampling Method: GRAB

Hammer weight / fall: NA

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	616.0	1						SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	6		HA			No	No		2						
									3						
									4						
	6		HA			↓	↓	610.5	5						
									6						TOTAL DEPTH = 5.5 FEET
									7						
									8						
									9						
									10						
									11						

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BORING LOG DS-11

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

DS-11

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 17:00 - 17:05 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-12	Boring Location: South of Former Pond 8 See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>None</u> Driller's Name: <u>NA</u> Drilling Method: <u>- Hand Shovel</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>0.5</u> Total Depth, ft: <u>0.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
		n.a.	GRAB					614.0							ASH gray to black, silt to fine grained sand size.
								613.5	0.5						TOTAL DEPTH = 0.5 FEET
									1.0						
									1.5						
									2.0						
									2.5						
									3.0						
									3.5						
									4.0						
									4.5						
									5.0						
									5.5						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-12 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-12 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 10:10 - 10:30 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-13	Boring Location: Former Irrigation Field C See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-13 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-13 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 10:35 - 12:55 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-14	Boring Location: Former Irrigation Field C See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>4.0</u> Total Depth, ft: <u>4.0</u>
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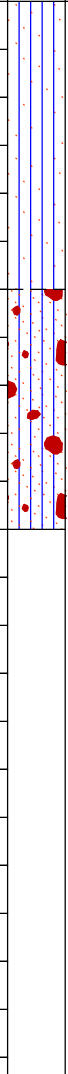
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine to fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA					607.0	2						
									3						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to medium grained sand, moist.
								606.0	4						TOTAL DEPTH = 4.0 FEET
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-14 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-14 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 11:00 - 11:20 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-15	Boring Location: Former Irrigation Field C See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:		
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine to medium grained sand, minor clay, moist.		
	6		HA			No	No	607.0									SANDY SILT with Gravel (ML): brown, very fine to medium grained sand, fine gravel, moist, minor clay.
	6		HA			↓	↓	604.5									
TOTAL DEPTH = 5.5 FEET																	

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-15 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-15 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:55 - 13:15 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-16	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-16 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-16 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 14:05 - 14:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-17	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-17 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-17 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 14:30 - 14:50 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-18	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
TOTAL DEPTH = 5.5 FEET															

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-18 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-18 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 15:05 - 15:35 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-19	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, minor clay, dry to moist.
	6		HA			No	No		1						
	6		HA					604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-19 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-19 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 15:40 - 15:55 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-20	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, clayey, moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

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SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-20 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-20 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 16:00 - 16:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-21	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, clayey, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-21 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-21 1 of 1
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Appendix A

Boring Logs

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 09:50 - 11:00 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-01	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>7.0</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS			↑ No ↓	↑ No ↓	631.0											
	6	20	CMSS									630.6			5	55	30	10	ASPHALT: over base rock.
	6	14										630.0	1		5	55	30	10	SILTY SAND (SM): gray, fine to medium grained sand, minor fine gravel, moist, with debris. Olive gray, moist to wet.
	6	10											2		5	55	30	10	
	0	4																	
	6	6	CMSS										3		5	55	30	10	
	6	7													5	55	30	10	
													4						
			CMSS									626.5							SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	0	12											5						
	6	14							6			30	60	10					
	6	14									30	60	10						
								624.0	7						TOTAL DEPTH = 7.0 FEET				
									8										
									9										
									10										
									11										

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BORING LOG DS-01

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

DS-01

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 11:05 - 11:25 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-02	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

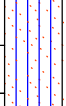
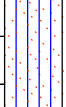
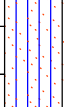
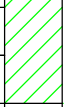
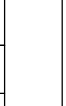
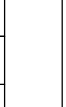
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:				
			CMSS			↑	↑	631.0											
								630.6											ASPHALT: over base rock.
	6	20						630.0	1		10	50	35	5	SILTY SAND (SM): dark gray to brown, fine to medium grained sand, minor fine gravel, moist, minor debris.				
	6	14				10	50	35	5										
	6	10				10	50	35	5										
	6	2	CMSS			No	No	628.5			10	70	20	SILT (ML): dark gray, minor very fine to fine grained sand, moist to wet, clayey.					
	6	3														10	70	20	
	6	5														10	70	20	
			CMSS			↓	↓	626.5							SILTY SAND (SM): brown, very fine to medium grained sand, minor fine gravel, moist.				
	6	14														10	40	30	20
	6	12														10	40	30	20
	6	12									10	40	30	20					
								624.5	7						TOTAL DEPTH = 6.5 FEET				
									8										
									9										
									10										
									11										

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SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-02 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-02 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 11:25 - 11:45 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-03	Boring Location: Former location of main Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								631.0							
								630.6							ASPHALT: over base rock.
	6	11	CMSS					630.0	1		10	30	40	20	SANDY SILT (ML): dark gray to brown, very fine to medium grained sand, minor fine gravel, moist.
	6	13							2		10	30	40	20	
	6	14							3		10	30	40	20	
	6	6	CMSS			No	No				10	30	40	20	
	6	6							4		10	30	40	20	
	6	8							5		10	30	40	20	
								626.5							CLAY (CL): brown mottled with light gray, silty, moist.
	6	12	CMSS						5		5	45	50		TOTAL DEPTH = 6.5 FEET
	6	8							6		5	45	50		
	6	8							7		5	45	50		
								624.5							
									8						
									9						
									10						
									11						

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SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-03 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-03 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:15 - 12:30 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-04	Boring Location: Former location of smaller Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								629.0							
								628.6							ASPHALT: over base rock.
	6	12	CMSS					628.0	1		15	50	30	5	SILTY SAND (SM): dark gray, fine to medium grained sand, fine gravel, moist.
	6	14						627.0	2		15	50	30	5	CLAY (CL): brown, minor fine to medium grained sand and fine gravel, moist.
	6	14									20	10	30	40	
	6	12	CMSS			No	No	625.5	3		20	10	30	40	
	6	11									10	30	50	10	SANDY SILT (ML): brown to reddish brown, moist.
			CMSS					624.0	4		10	30	50	10	
	6	10									10	30	50	10	
	6	17									5	35	60		CLAY (CL): brown to reddish brown, silty, moist.
	6	24									5	35	60		
								622.5	6		5	35	60		
									7						TOTAL DEPTH = 6.5 FEET
									8						
									9						
									10						
									11						

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BORING LOG DS-04

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure: DS-04 1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:40 - 12:55 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-05	Boring Location: Former location of smaller Teepee Burner See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u>	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
Notes: Approximately 1 foot of fill above native soil; samples collected from below native ground surface (bngs).	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:			
			CMSS			↑	↑	629.0							Lithologic Description and Drilling Comments:			
																		ASPHALT: over base rock.
	6	12																SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	6	13									30	50	20					
	6	12									30	50	20					
	6	8	CMSS					626.5				30	50	20	SANDY CLAY (CL): brown, very fine to fine grained sand, moist.			
	6	10				No	No					30	30	40				
	6	10										30	30	40				
			CMSS					624.5							CLAY (CL): brown, silty, moist.			
	6	10										T	20	80				
	6	14										T	20	80				
	6	14						622.5				T	20	80				
									7						TOTAL DEPTH = 6.5 FEET			
									8									
									9									
									10									
									11									

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-05 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-05 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 14:20 - 14:40 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-06	Boring Location: Former Borrow Pit See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>7-in. Hollow-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>7.5</u> Total Depth, ft: <u>9.0</u>	

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								617.0							
									1						
									2						
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

Date (start, end): 11/25/08 - 11/25/08
Drilling Time (start, end) 15:00 - 15:30
Logged By: Stephen Knüttel
Checked By: Steven Clements

Boring No.
DS-07

Boring Location: Former Borrow Pit

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 7.5 Total Depth, ft: 9.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								617.0							
								616.7	1						TOPSOIL. ASH black.
	0	2	CMSS						2						Silt to very fine grained sand size.
	5	2							3						
	1	1							4						
									5						Ash and clinker.
	0	3	CMSS			No	No		6						
	6	3							7						
	5	4							8						
									9						
	0	10	CMSS					608.5	10						
	6	9							11						
	6	7						608.0			5	25	70		CLAY (CL): greenish gray, moist, minor silt to very fine grained sand sized ash.
															TOTAL DEPTH = 9.0 FEET

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BORING LOG DS-07

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

DS-07

1 of 1

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

Date (start, end): 11/25/08 - 11/25/08
 Drilling Time (start, end) 15:40 - 16:00
 Logged By: Stephen Knüttel
 Checked By: Steven Clements

Boring No.
DS-08

Boring Location: Former Borrow Pit

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 7-in. Hollow-Stem Auger

Auger Depth, ft: 7.5 Total Depth, ft: 9.0

Sampling Method: CMSS

Hammer weight / fall: 140 lbs / 30 inch

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								616.0							
									1						
									2						
									3						
									4						
						No	No		5						
									6						
									7						
									8						
								607.7	9						
								607.0	10						
									11						

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BORING LOG DS-08

Former Masonite Facility
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

DS-08

1 of 1

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 17:10 - 17:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-09	Boring Location: Former Irrigation Field A See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:	
	6		HA			↑	↑	612.0							SANDY SILT (ML): brown, very fine to fine grained sand, clayey, moist.	
	6		HA			No	No		1							
									2							
	6		HA				↓	↓	606.5		3					TOTAL DEPTH = 5.5 FEET
											4					
									5							
									6							
									7							
									8							
									9							
									10							
									11							

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-09 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-09 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 16:50 - 17:05 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-10	Boring Location: Former Irrigation Field A See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	612.0							SANDY SILT (ML): brown, very fine to fine grained sand, clayey, moist.
	6		HA			No	No		1						
									2						
									3						
									4						
	6		HA			↓	↓	606.5	5						
									6						TOTAL DEPTH = 5.5 FEET
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-10 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-10 1 of 1
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Date (start, end): 11/25/08 - 11/25/08
Drilling Time (start, end) 16:45 - 17:10
Logged By: Stephen Knüttel
Checked By: Steven Clements

Boring No.
DS-11

Boring Location: Former Pond 6

See Unified Soil Classification System (USCS)
for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Driller's Name: Pablo Gonzales

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Drilling Method: 3-in. Hand Auger

Auger Depth, ft: 5.5 Total Depth, ft: 5.5

Sampling Method: GRAB

Hammer weight / fall: NA

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	616.0	1						SANDY SILT (ML): brown, very fine to fine grained sand, moist.
	6		HA			No	No		2						
									3						
									4						
	6		HA			↓	↓	610.5	5						
									6						TOTAL DEPTH = 5.5 FEET
									7						
									8						
									9						
									10						
									11						

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BORING LOG DS-11

Former Masonite Facility
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377

Figure:

DS-11

1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 17:00 - 17:05 Logged By: Stephen Knüttel Checked By: Steven Clements	Boring No. DS-12	Boring Location: South of Former Pond 8 See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>None</u> Driller's Name: <u>NA</u> Drilling Method: <u>- Hand Shovel</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>0.5</u> Total Depth, ft: <u>0.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
		n.a.	GRAB					614.0							ASH gray to black, silt to fine grained sand size.
								613.5	0.5						TOTAL DEPTH = 0.5 FEET
									1.0						
									1.5						
									2.0						
									2.5						
									3.0						
									3.5						
									4.0						
									4.5						
									5.0						
									5.5						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-12 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-12 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 10:10 - 10:30 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-13	Boring Location: Former Irrigation Field C See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0	1						SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		2						
									3						
									4						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-13 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-13 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 10:35 - 12:55 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-14	Boring Location: Former Irrigation Field C See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>4.0</u> Total Depth, ft: <u>4.0</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine to fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA					607.0	2						
									3						GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel, fine to medium grained sand, moist.
								606.0	4						TOTAL DEPTH = 4.0 FEET
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-14 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-14 1 of 1
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1 of 1

Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 12:55 - 13:15 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-16	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			↓	↓	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 14:05 - 14:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-17	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-17 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-17 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 14:30 - 14:50 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-18	Boring Location: Former Irrigation Field B See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT with Sand (ML): brown, very fine grained sand, minor clay, moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-18 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-18 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 15:05 - 15:35 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-19	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, minor clay, dry to moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-19 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-19 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 15:40 - 15:55 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-20	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, clayey, moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-20 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-20 1 of 1
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Date (start, end): 11/25/08 - 11/25/08 Drilling Time (start, end) 16:00 - 16:25 Logged By: R. Scott Kippen / Stephen Knüttel Checked By: Steven Clements	Boring No. DS-21	Boring Location: Former South Irrigation Field See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Jason LaRue</u> Drilling Method: <u>3-in. Hand Auger</u> Sampling Method: <u>GRAB</u> Hammer weight / fall: <u>NA</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.5</u> Total Depth, ft: <u>5.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6		HA			↑	↑	610.0							SILT (ML): brown, clayey, moist.
	6		HA			No	No		1						
	6		HA			No	No	604.5	5						
															TOTAL DEPTH = 5.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 1/14/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG DS-21 Former Masonite Facility Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: DS-21 1 of 1
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Appendix A

Unified Soil Classification System and Boring Logs PCB-01 through PCB-12

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 15% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 15% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	
Soil sample submitted for chemical analysis ☒ Soil sample examined for soil classification Sampler Type CBS = Continuous Barrel Sampler CMSS = CA Modified Split Spoon DP = Direct Push Sampler GRAB = Grab Sample HA = Hand Auger HP = Hydropunch SPT = Standard Penetration Test Water Level (after drilling) First Identified Free Water n.a. = not applicable n.r. = not recorded					
SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769			UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377		
			Figure: Appendix A A-1 1 of 1		

Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 09:00 - 09:10 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-01	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
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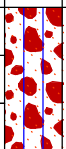
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	0	14	CMSS								60	10	30		GRAVEL with Silt and Sand (GW-GM).
	2	14				No	No		1	60	10	30			
	6	14										2			
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-01 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-01 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 09:12 - 09:36 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-02	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
X	0	22	CMSS			↑	↑		1		40	30	30		GRAVEL with Silt and Sand (GW-GM): light brown.
X	2	22							2		40	30	30		
X	4	22								3		40	30	30	
X	0	10	CMSS			No	No		4				40	60	CLAY (CL): dark brown, silty, very stiff.
X	1	14							5				40	60	
X	6	20							6				40	60	
X	5	12	CMSS			↓	↓		7				40	60	Gravelly lens.
X	6	17							8				40	60	
X	6	18							9				40	60	
															TOTAL DEPTH = 6.5 FEET

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-02 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-02 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 09:43 - 10:00 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-03	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	2	34	CMSS			↑	↑				50	25	25		GRAVEL with Silt and Sand (GP-GM): light brown.
	6	24									50	25	25		
	6	18								1			10	20	70
			CMSS						2				40	60	CLAY (CL): dark brown, silty, stiff.
	6	8											40	60	
	6	12								3			40	60	
	6	14				No	No		4				40	60	
			CMSS						5				40	60	SILT (ML): medium brown, clayey.
	6	8								6			60	40	
	6	12											60	40	
	6	18				↓	↓		7						TOTAL DEPTH = 6.5 FEET
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

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Environmental Consultants
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 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG PCB-03

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

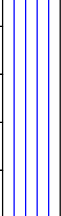
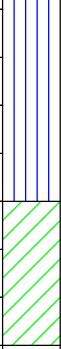
Figure:

PCB-03

1 of 1

Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 10:05 - 10:20 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-04	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	3	20	CMSS								70	10	20		GRAVEL with Silt and Sand (GP-GM): loose.
	5	30		70	10						20				
	6	32		10	60						30				
			CMSS			No	No					10	60	30	SILT (ML): medium brown, clayey, minor sand and gravel.
	6	7			10						60	30			
	6	9			10						60	30			
	6	8									10	60	30		
			CMSS												CLAY (CL): dark gray and brown with some oxidation associated with gray clay, silty, very stiff.
	6	6													
	6	8			10						20	70			
	6	12									10	20	70		
															TOTAL DEPTH = 6.5 FEET
															
															
															
															

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

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 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG PCB-04

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:
 PCB-04
 1 of 1

Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 10:24 - 10:32 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-05	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	3	9	CMSS						1		50	20	30		GRAVEL with Silt and Sand (GW-GM): loose.
	6	14				No	No				10	20	60	10	SILT with Sand (ML): minor clay and gravel.
	6	20									10	20	60	10	
									2						TOTAL DEPTH = 1.5 FEET
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-05 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-05 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 10:36 - 10:47 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-06	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	2	14	CMSS								50	20	30		SILTY GRAVEL with Sand (GM).
	6	20		No	No				1		5	5	20	70	CLAY (CL): oxidized, light gray and brown, very stiff, minor sand and gravel.
	6	24									5	5	20	70	
									2						TOTAL DEPTH = 1.5 FEET
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-06 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-06 1 of 1
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Date (start, end): 9/21/09 - 9/21/09
 Drilling Time (start, end) 10:50 - 11:10
 Logged By: Paul Wisniewski
 Checked By: Stephen Knüttel

Boring No.
PCB-07

Boring Location: North of former water treatment ponds,
 see Site map for details

See Unified Soil Classification System (USCS)
 for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

Driller's Name: Pablo Gonzales

Drilling Method: 4-in. Solid-Stem Auger

Sampling Method: CMSS

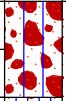
Hammer weight / fall: 140 lbs / 30 inch

MW Installed: Y ☐ N ☒ if no, boring backfilled with:

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒

Auger Depth, ft: 5.0 Total Depth, ft: 6.5

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	2	30	CMSS			↑	↑		1		60	10	30		GRAVEL with Silt and Sand (GW-GM): medium brown.
	6	20									60	10	30		
	6	12									20	10	70		SILT : medium brown, clayey, minor sand.
	2	9	CMSS						2			10	70	20	
	5	12										10	70	20	
	6	14				No	No		3			10	70	20	
									4						CLAY (CL): dark brown, silty, stiff.
	6	9	CMSS						5				80	20	
	6	11							6				80	20	
	6	14											80	20	
									7						
									8						
									9						
									10						
									11						
															TOTAL DEPTH = 6.5 FEET

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 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG PCB-07

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377

Figure:

PCB-07

1 of 1

Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 11:10 - 11:20 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-08	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	3	40	CMSS								70	10	20		SILTY GRAVEL (GM): light brown.
	6	20		No	No				60	10	20	10			
	6	18									60		40		SILT (ML): dark brown, clayey.
TOTAL DEPTH = 1.5 FEET															

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-08 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-08 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 11:23 - 11:33 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-09	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
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Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	0	45	CMSS								80	10	10		GRAVEL with Silt (GP-GM): light brown.
	1	28				No	No		1	80	10	10			
	6	22													
									2						
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-09 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-09 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 11:38 - 11:55 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-10	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. Solid-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>5.0</u> Total Depth, ft: <u>6.5</u>
---	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	6	20	CMSS			↑	↑				80	20			GRAVEL with Silt and Sand (GW).
	6	18									80	20			
	6	17								1				60	40
			CMSS						2				30	70	
	6	9											30	70	
	6	12								3			30	70	
	6	18				No	No		4			30	70		
									5				30	70	
	6	8	CMSS						6				30	70	TOTAL DEPTH = 6.5 FEET
	6	14											30	70	
	6	14											30	70	
						↓	↓		7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-10 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-10 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 11:57 - 12:15 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-11	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
---	-----------------------------	---

Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
--	--

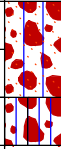
Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	2	40	CMSS								80	10	10		GRAVEL with Silt and Sand (GW-GM): loose. CLAY (CL): dark brown. TOTAL DEPTH = 1.5 FEET
	6	30		No	No				1		80	10	10		
	6	18									70	10	20		
									2						
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-11 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-11 1 of 1
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Date (start, end): 9/21/09 - 9/21/09 Drilling Time (start, end) 12:25 - 12:35 Logged By: Paul Wisniewski Checked By: Stephen Knüttel	Boring No. PCB-12	Boring Location: North of former water treatment ponds, see Site map for details See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Gonzales</u> Drilling Method: <u>4-in. N/A</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☒ Auger Depth, ft: <u>n.a.</u> Total Depth, ft: <u>1.5</u>
--	--

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
X	3	30	CMSS			↑	↑		1		50	20	30		GRAVEL with Silt and Sand (GW-GM): light brown.
	6	24		No	No				1.5		50	20	30		SILT with Gravel (ML): medium brown, minor sand.
X	6	22		↓	↓				2		30	10	60		TOTAL DEPTH = 1.5 FEET
									3						
									4						
									5						
									6						
									7						
									8						
									9						
									10						
									11						

SCS-SANTA ROSA BORING LOG 01203377 00.GPJ SCS-SANTA ROSA.GDT 12/2/09

SCS ENGINEERS Environmental Consultants 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG PCB-12 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377	Figure: PCB-12 1 of 1
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Appendix A

Unified Soil Classification System Chart and Boring Log Legend Boring Logs for MUF-A13-09 and MUF-A13-10

GENERAL SOIL CATEGORIES			SYMBOLS		TYPICAL SOIL TYPES
			GRAPHIC	LETTER	
COARSE GRAINED SOILS More than half is larger than no. 200 sieve	Gravel More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravel with little or no fines		GW	Well Graded Gravels, Gravel - Sand mixtures
				GP	Poorly Graded Gravels, Gravel - Sand mixtures
		Gravel with more than 15% fines		GM	Silty Gravels, Poorly Graded; Gravel - Sand - Silt Mixtures
				GC	Clayey Gravels, Poorly Graded; Gravel - Sand - Clay Mixtures
	Sand More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sand with little or no fines		SW	Well Graded Sands, Gravelly Sands
				SP	Poorly Graded Sands, Gravelly Sands
		Sand with more than 15% fines		SM	Silty Sands, Poorly Graded; Sand - Silt Mixtures
				SC	Clayey Sands, Poorly Graded; Sand - Clay Mixtures
FINE GRAINED SOILS More than half is smaller than no. 200 sieve	Silt and Clay Liquid Limit Less than 50%			ML	Inorganic Silts and Very Fine Sands, Rock Flour, Silty or Clayey Fine Sands or Clayey Silts with Slight Plasticity
				CL	Inorganic Clays of Low to Medium Plasticity, Gravelly Clays, Sandy Clays, Silty Clays, Lean Clays
				OL	Organic Silts and Organic Silty Clays of Low Plasticity
	Silt and Clay Liquid Limit Greater than 50%			MH	Inorganic Silts, Micaceous or Diatomaceous Fine Sandy or Silty Soils, Elastic Silts
				CH	Inorganic Clays of High Plasticity, Fat Clays
				OH	Organic Clays of Medium to High Plasticity
Highly Organic Soils			PT	Peat and Other Highly Organic Soils	
Bedrock			BR	Bedrock	
Aggregate Base			B	Mixed Fill	
Asphalt			A	Asphalt	
Concrete			C	Concrete	

Soil sample submitted for chemical analysis

Soil sample examined for soil classification

Sampler Type

CBS = Continuous Barrel Sampler
CMSS = CA Modified Split Spoon
DP = Direct Push Sampler
GRAB = Grab Sample
HA = Hand Auger
HP = Hydropunch
SPT = Standard Penetration Test

▼

Water Level (after drilling)

▽

First Identified Free Water

n.a. = not applicable

n.r. = not recorded

SCS ENGINEERS Environmental Consultants and Contractors 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	UNIFIED SOIL CLASSIFICATION SYSTEM CHART and BORING LOG LEGEND Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.01	Figure: Appendix A A-1 1 of 1
---	--	--

Date (start, end): 3/18/11 - 3/18/11 Drilling Time (start, end) 08:30 - 14:00 Logged By: Stephen Knüttel Checked By: Tom Lion	Boring No. MUF-A13-09 See Unified Soil Classification System (USCS) for Legend and information not noted.
Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Pablo Trejo</u> Drilling Method: <u>8-in. Hollow-Stem Auger</u> Sampling Method: <u>CMSS</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes:	MW Installed: Y ☒ N ☐ if no, boring backfilled with: Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>66.0</u> Total Depth, ft: <u>66.0</u>

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						↑	↑	605.9							TOPSOIL: wet.
								605.4	1						SANDY SILT (ML): brown, fine to medium grained sand, minor fine and coarse gravel, moist to wet.
									2						
									3						
									4						
								601.4	5						SILTY SAND with Gravel (SM): brown, fine to medium grained sand, fine and coarse gravel, moist.
						No	No		6		30	50	20		
									7						
									8						
									9						
									10						
									11		40	40	20		
											40	40	20		

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 03/31/11

SCS ENGINEERS Environmental Consultants and Contractors 3843 Brickway Boulevard, Suite 208 Santa Rosa, California 95403 Ph.: 707-546-9461 Fax: 707-544-5769	BORING LOG MUF-A13-09 Masonite Property Masonite Truck Road Ukiah, California 95482 Job Number: 01203377.01	Figure: MUF-A13-09 1 of 5
---	---	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								593.4	13						GRAVEL with Sand (GW): brown, fine and coarse gravel and fine to coarse grained sand, minor silt and clay.
									14						
									15						
									16						
									17						
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

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BORING LOG MUF-A13-09

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

MUF-A13-09

2 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									29						
									30						
	6	14	CMSS								60	35	5		
	6	50/6"									60	35	5		
									31						
									32						
								572.9	33						
									34						
									35						
	0	15	CMSS												
	6	27				No	No				30	65	5	T	
	6	39							36						
									37						
									38						
									39						
									40						
	0	21	CMSS												
	6	40									40	55	5	T	
	6	43							41		40	55	5	T	
									42						
								563.4	43						

SAND with Gravel (SW): brown, fine to coarse grained sand and fine gravel, minor silt and clay, wet.

GRAVEL with Silt and Sand (GW-GM): brown to moderate yellowish brown, fine and coarse gravel and fine to coarse grained sand, minor clay, wet.

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BORING LOG MUF-A13-09

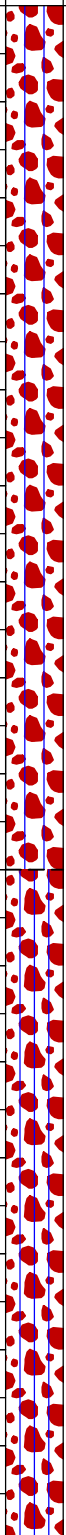
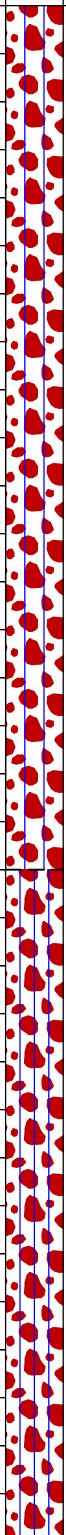
Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A13-09

3 of 5

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 03/31/11

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:	
			CMSS						45		50	35	10	5		
									46		50	35	10	5		
			CMSS			No	No	552.9	47						SILTY GRAVEL (GM): brown to moderate yellowish brown, fine and coarse gravel and fine to coarse grained sand, minor clay, wet.	
									48							
									49							
									50							
									51							
									52							
									53							
									54							
									55		40	30	30	T		
									56							
									57							
									58							
									59							

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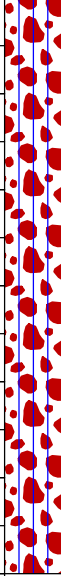
BORING LOG MUF-A13-09

Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A13-09

4 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									61						TOTAL DEPTH = 66.0 FEET
									62						
									63						
									64						
									65						
	X	3	50/6"	CMSS		No	No	539.9	66						
									67						
									68						
									69						
									70						
									71						
									72						
									73						
									74						
									75						

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BORING LOG MUF-A13-09

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

MUF-A13-09

5 of 5

Date (start, end): 3/18/11 - 3/21/11
Boring No.

Drilling Time (start, end) 14:40 - 12:00
MUF-A13-10

Logged By: Stephen Knüttel

Checked By: Tom Lion

Boring Location: East of Hop Barn

See Unified Soil Classification System (USCS) for Legend and information not noted.

Drilling Contractor: Clear Heart Drilling, Inc.

Driller's Name: Pablo Trejo

Drilling Method: 8-in. Hollow-Stem Auger

Sampling Method: CMSS

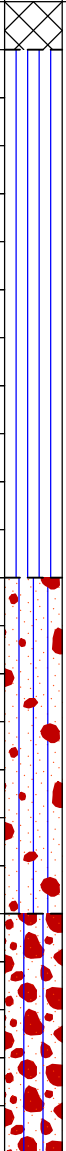
Hammer weight / fall: 140 lbs / 30 inch

MW Installed: Y ☒ N ☐ if no, boring backfilled with:

Cement ☐ Bentonite: Cement ☐ Grout ☐ Chips ☐

Auger Depth, ft: 66.0 Total Depth, ft: 66.0

Notes:

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								605.6							
								605.1	1						TOPSOIL.
									2						
									3						
									4						
									5						
						No	No	599.6	6						SANDY SILT (ML): brown, fine to medium grained sand, minor fine and coarse gravel, moist.
									7						
									8						
									9						
								596.1	10		40	30	20	10	SANDY SILT with Gravel (SM): brown, fine to medium grained sand, fine and coarse gravel, moist.
									11		40	30	20	10	
											40	30	20	10	GRAVEL with Silt and Sand (GW-GM): brown, fine and coarse gravel and fine to coarse grained sand, minor clay, moist.

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 03/31/11

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BORING LOG MUF-A13-10

Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A13-10

1 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
			CMSS						29		60	30	5	5	
	6	32							30						
	6	50/6"							31						
			CMSS			No	No	568.6	32		60	30	5	5	
									33						
									34						
									35						
									36						
									37						
									38						
									39						
									40						
									41						
	6	21	CMSS						42		50	30	15	5	
	6	36							43						
	6	40													

GRAVEL with Silt and Sand (GW-GM): brown to moderate yellow brown, fine and coarse gravel and fine to coarse grained sand, wet.

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BORING LOG MUF-A13-10

Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A13-10

3 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									45						
									46						
									47						
									48						
									49						
									50		50	30	15	5	
									51		50	30	15	5	
									52						
						No	No		53						
									54						
								550.6	55						
									56						
									57						
									58						
									59						

GRAVEL with Sand (GW): brown to moderate yellow brown, fine and coarse gravel and fine to coarse grained sand, minor silt and clay, wet.

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BORING LOG MUF-A13-10

Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

MUF-A13-10

4 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
6	35		CMSS								60	30	5	5	
6	42										60	30	5	5	
6	50										60	30	5	5	
						No	No								
								539.6	66						TOTAL DEPTH = 66.0 FEET
									67						
									68						
									69						
									70						
									71						
									72						
									73						
									74						
									75						

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BORING LOG MUF-A13-10

Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

MUF-A13-10

5 of 5

Appendix B

**Well Completion Diagrams and DWR Logs
for Monitoring Wells MUF-A13-09 and MUF-A13-10**

Permit No. 23-6389 Permit Date 03/08/11

Refer to Instruction Pamphlet

No. 1073600

DWR USE ONLY - DO NOT FILL IN

STATE WELL NO./STATION NO.

LATITUDE

LONGITUDE

APN/TRS/OTHER

WELL OWNER[illegible]

DEPTH FROM SURFACE			BORE-HOLE DIA. (inches)	CASING (S)							
				TYPE (✓)				MATERIAL / GRADE	INTERNAL DIAMETER (inches)	GAUGE OR WALL THICKNESS	SLOT SIZE IF ANY (inches)
FL	to	FL		BLANK	SCREEN	CORE- DUCTOR	FILL PIPE				
-		-	-					-	-		
0.4		55.4	8	✓				PVC	2	0.25	
55.4		65.4	8		✓			PVC	2	0.25	20
65.4		65.6	8	✓				PVC	2	0.25	

DEPTH FROM SURFACE			ANNULAR MATERIAL			
			TYPE			
FL	to	FL	CE- MENT (✓)	BEN- TONITE (✓)	FILL (✓)	FILTER PACK (TYPE/SIZE)
0		47.0	✓			
47.0		52.0		✓		
52.0		66.0			✓	#3 Sand

ATTACHMENTS (✓)

- ___ Geologic Log
- ___ Well Construction Diagram
- ___ Geophysical Log(s)
- ___ Soil/Water Chemical Analyses
- ___ Other _____

ATTACH ADDITIONAL INFORMATION, IF IT EXISTS

- CERTIFICATION STATEMENT

I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief.

NAME **SCS Engineers**
PERSON, FIRM, OR CORPORATION (TYPED OR PRINTED)

3843 Brickway Blvd., Suite 208

Santa Rosa

California 95403

ADDRESS _____
Signed SK _____
WELL DRILLER/AUTHORIZED REPRESENTATIVE

Y

STATE	ZIP
-------	-----

Signed

50 mm. 11

780357

REPORT OF FINDINGS
FORMER MASONITE FACILITY - AREA 9
300 FORD ROAD
UKIAH, CALIFORNIA



APPENDIX B

BORING LOGS

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		Silty sand, SM/SP, 7.5YR 5/4, brown, fine w/occ. gravel, no plast, dry, loose color change 10YR 7/1, lt. gray color change 10YR 5/4 dk yellowish brown		(6.0)
2	SM/SP		W-1-2.5 @0935	(6.0)
3				
4		discolored/odor		
5		5.5 ft ML 5GY 3/1 (odor) w/lt greenish gray to no plast. fine grained, slightly medium firm		(2.7)
6	ML	more clay less clay	W-1-5.5 @1102	(3.4)
7				(2.7)
8			odor W-1-7.5 @0939	0.3
9	GM	silty gravel, GM, 5GY 9/1, greenish gray fine to coarse-grained, no plasticity, damp to moist, med. dense to loose	W-1-8.5 @11007	(11.9)
10			odor W-1-10 @0942	(4.6)
11				(5.4)
12		free product on inside liner (brown silty spots)		
13			wet W-1-13 @1110	(11.2)
14		color change to 10YR 4/4		(0.0)
15				
16				(0.0)
17				(0.0)
18			W-1-18.5 @0946	(0.0)
19		Free product/sheen observed on bailer Water sample @ 1020 (2 Ambers)		
20				



SAND



SILT



CLAY



GRAVEL

Drilling method: Direct Push

Drilling date: 8/17/11

Sampling method: Macrocore

Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/17/11

Project: DOR. Ukiah

Soil Boring Lithology for

W-1

16-20

12-16

8-12

4-8

0-4

free product on meter

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SP/SM	silty sand, SP/SM, 10YR 3/2, dk grayish brown, fine w/ med. gravel, no plast, dry loose		
2		color change 10YR 5/4 yellowish brown		
3			W-2-3 @ 0890	
4				
5		clayey silt, ML, 10YR 5/4, (odor) to 2.5Y 4/2, dk. greenish gray, dk grayish brown, little/no plast., damp, firm.	W-2-5 @ 1005	(2.4)
6	ML	odor/discolored		(0.0)
7		more clay	W-2-8 @ 0892	(3.1)
8				
9		silty gravel, GM 5 Gy 5/ greenish gray fine to coarse-grained, no plasticity, dry to slightly damp, med. dense to loose	W-2-9 @ 1020	(5.7)
10				(3.5)
11	GM		W-2-11 @ 0855	(0.7)
12				
13				(0.0)
14				(0.0)
15		↓ less silt		
16		color change 10YR 5/4 dk yellowish brown, moist		(0.0)
17				
18		saturated/wet		(0.0)
19		• No free product/steen visible but odor • water sample @ 1005 (2 Ambers)	W-2-19 @ 0900	
20				

 SAND

 SILT

 CLAY

 GRAVEL

Drilling method: Direct Push
 Sampling method: Macrocore

Drilling date: 8/17/11
 Geologist: RLM



Date: 8/17/11
 Project: DDR. Ukiah

Soil Boring Lithology for

W-2

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		silty sand, SP/SM, 10 YR 4/2 to 4/3, brown, mostly fine w/ cc gravel, no plasticity, dry, loose		(0.0)
2	SP/SM		W-3-2.5 @0805	(0.0)
3				
4				(0.0)
5				
6	MC	clayey silt, MC, 10 YR 4/4 dk. yellowish brown, fine-grained, low plast., slightly damp, firm color change to 10 GY/ greenish gray	W-3-6 @0840	(7.5) (0.0)
7			W-3-8 @0808	(0.0)
8	GM	silty gravel, GM, 5 GY 5/1 greenish gray fine to coarse-grained, no plasticity, slightly damp, med. dense to loose		
9				
10				
11		line water	W-3-11.5 @0811	(0.7) (0.0)
12				(0.1)
13	SM	silty sand, SM, 10 YR 4/4 yellowish brown, fine to med-grained, no plasticity, slight damp, med. dense		(0.0)
14	GC	clayey gravel, @ 5 GY 5/1		
15		10 YR 4/4 yellowish		
16		color change to 10 YR 4/3, less clay		(0.0)
17				(0.0)
18			W-3-18.5 @0820	
19				
20				

SAND

SILT

CLAY

GRAVEL

Drilling method: Direct Push
 Sampling method: Macrocore

Drilling date: 8/17/11
 Geologist: RLM

Environmental Services & Technology

Date: 8/17/11
 Project: DDR. Ukiah

Soil Boring Lithology for

W-3

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SP	asphalt / silty sand, SP/SM, 10y 2, 4/2, dk grayish brown, fine to med ^{grained}		(0.0)
2	SM	occ. gravel, no plast, dry, loose mostly fine to med grained, less gravel gravelly lens	W-4-2.5 @ 1140	(0.0) 0-4
3				
4				(0.0)
5				(0.0)
6	SC	clayey sand, SC, 5y 4/1, dk greenish gray, fine to med grained, slight plast, moist, less to med , dense to dense mottled	oil staining on liner W-4-6.5 @ 1145	(0.0) 4-8 (13.1) (19.5)
7				
8		silty gravel, GM 5y 4/1, fine to coarse grained, no plasticity, moist to slightly damp, dense		(4.0)
9				(9.9) 8-12
10	GM		W-4-10.5 @ 1148	(1.7)
11				
12				(0.0)
13				
14		color change 5y 4/3, dry, dense to very dense, SW to GW		(0.1) 12-16
15	GW/SW			
16				(0.0)
17				
18				(0.0) 16-20
19			W-4-18.5 @ 1152	
20				

SAND

SILT

CLAY

GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/17/11
Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/17/11
Project: DDR, Ukiah

Soil Boring Lithology for
W-4

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SR/SM	Asphalt, 1" silty sand, SP/SM, 10YR 5/2 grayish brown, fine to coarse grained, no plast, dry, loose		(0.0)
2	SM	silty sand, SM, 10YR 3/2 v. dk grayish brown fine to medium-grained, no plasticity, slightly damp, medium dense to dense		(0.0)
3			W-5-3 @0726	
4				(0.0)
5		color change to 10YR 4/4 dk. yellowish brown, inc. in clay and coarse sand, damp		(0.0)
6		color change to 10Y 4/1 dk greenish gray, damp	W-5-7 @0728	(0.0)
7				(0.0)
8		sand, SW, 10Y 4/1, dk greenish gray, damp to moist, no plast, med. dense	W-5-8.5 @0754	(2.0)
9	SW	more silt & clay		(0.3)
10		color change to 5Y 4/4 olive		(0.0)
11	GM	silty gravel, GM, 5Y 4/4, olive, fine to coarse-grained, no plast, moist	W-5-11 @0731	
12				(0.0)
13		v. moist		
14		color change to 10YR 4/4 dk yellowish brown		
15				
16				
17		line clay		
18	GM/GC	saturated		
19		* No free product/moisture observed on bailer * Water sample @0900 (2 Ambers)		
20		saturated	W-5-20 @0734	(0.0)



SAND



SILT

Drilling method: Direct Push

Drilling date: 8/18/11

Sampling method: Macrocore

Geologist: RLM



CLAY



GRAVEL

WEST
Environmental Services & Technology

Date: 8/18/11
Project: DDR. v. Kiah

Soil Boring Lithology for
W-5

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SP/SM	silty sand, SP/SM, 10YR 4/3 pale brown, fine to med.-grained w/ occ. gravel, no plasticity, dry, loose		(0.0)
2		color change 10YR 4/3, brown, less gravel		(0.0)
5			W-6-25 @ 1425	8-4
3				
4				
5	SM	med. dense to dense, inc. clay/silt, no gravel, 5GY 4/1, dk. greenish gray		(0.0)
6				(0.0)
7			W-6-6.5 @ 1429	4-8
8				
9	SM/GM	silty sand/gravel, SM/GM, 5GY 4/1, no plast, damp, med. dense to loose		(0.0)
10				(0.0)
11			W-6-11 @ 1432	8-12
12				
13		moist color change 2.5Y 4/3 olive brown		(0.0)
14				12-16
15				
16				
17	GM			
18			W-6-18.5 @ 1435	16-20
19		* No free product or sheen observed on bailer		
20				



SAND
CLAY



SILT
GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/17/11
Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/17/11
Project: DDR. V. Kiah

Soil Boring Lithology for
W-6

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		silty sand, SP/SM, 10YR 6/3, pale brown, fine to med. pebbles & gravel, loose, dry, no plast. cat.		
2		color change 10YR 4/6, brown		
3			W-7-3 @1445	(0.0) 0-4
4		SM med. dense		
5		color change 7.5YR 3/4, dk brown		
6			W-7-7 @1449	(0.0) 4-8
7				
8		silty sand/gravel, SM/GM, 5GY 4/1, dk greenish gray, no plastic		
9		damp, loose to med. dense		(0.0)
10				
11			W-7-11 @1451	(0.0) 8-12
12				
13				(0.0)
14		color change 10YR 4/4 dk yellowish brown		(0.0) 12-16
15				
16		more gravel		(0.0)
17			W-7-18 @1455	16-20
18				
19		* No free product/no dander observed		
20		* Water sample @ 1500 (2 Ambers)		

SAND
 CLAY
 SILT
 GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/17/11
Geologist: RLM

W-7

 Environmental Services & Technology	Date: <u>8/17/11</u>	Soil Boring Lithology for <u>W-7</u>
	Project: <u>DDR UKiah</u>	

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SR/SC	silty sand, SP/SS, 10YR 5/3 brown, fine-grained w/ gravel, no plast, dry, loose		(0.0)
2		color change 10YR 5/2 v. dk grayish brown med. dense, less gravel	W-8-25 @1505	(0.0)
3				
4				
5	SC	10YR 5/4, more clay/silt,		(0.0)
6	ML SC	silt, ML SGY 4/1, dk greenish gray, slight, fine to med-grained, slightly damp, firm	W-8-7 @1509	(0.0)
7		silty sand, SC, 5Y 4/1, no plast, fine to med-grained, slightly damp		
8				
9		silty gravel/sand, GM/SM, 5Y 4/1, no plast, fine to coarse, damp, med. dense, (pink decomposed rock @ top)		(0.0)
10				
11	GM/SM		W-8-11 @1513	(0.0)
12				
13		very moist		(0.0)
14		color change to 10YR 4/6 dk yellowish brown		
15	GM/SM			
16				
17		wet		(0.0)
18			W-8-185 @1516	
19		* no free product or sheen observed on barker		
20				

SAND

SILT

CLAY

GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/17/11
Geologist: RLM

Environmental Services & Technology

Date: 8/17/11
Project: DDR. Ukiah

Soil Boring Lithology for

W-8

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		silty sand, silty, 10YR 5/2, grayish brown, mostly fine to med. gravel / coarse sand no plasticity, dry, loose		(0.0)
2	SL	bit of clay plat (area churned after pipe removal) color change to 2.5Y 5/4 H. olive brown	W-9-2 @ 0812	0-4
3				
4	ML	clayey sandy silt ML 10YR 4/1 dk. yellowish brown, fine-grained, slight plasticity, damp, firm		(0.0)
5	SM	silty sand, SM, 10YR 4/4, fine-grained, no plasticity, damp med. dense to dense		(0.0)
6		color change to 10Y 4/1 dk. greenish gray		
7				
8	SW	silty / gravelly sand, SW, 5Y 4/2, olive gray, fine to med-grained, no plast, damp, med. dense	W-9-8 @ 0816	(0.0)
9	GM			
10	GM			(0.0) 8-12
11				
12		color change 10Y 4/1, dk greenish gray, saturated	W-9-12 @ 0824	(0.0)
13		color change to 2.5Y 4/3, olive brown, v. moist caliche dry layer		12-16
14	GM			
15				
16				
17		color dk greenish gray 10Y 4/1 saturated		(0.0) 16-20
18				(0.0)
19		* No free product or sheen observed on bailer	W-9-19 @ 0820	
20				



SAND

CLAY



SILT

GRAVEL

Drilling method:

Direct Push

Sampling method:

Macrocore

Drilling date:

8/18/11

Geologist:

RUM

WEST
Environmental Services & Technology

Date:

8/18/11

Project:

DDR. UKiah

 Soil Boring Lithology for
W-9

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM	silty sand, SM, 2.5y 6/3, H, yellowish brown, fine to coarse or gravel, no plast, dry, loose increases & inc. grain size 2.5y 3/3 dk olive brown fine gravel		(0.0)
2				
3			W-10-3 @ 0932	(0.0)
4		less gravel		
5	SW	silty sand, SW, 2.5y 4/4 olive brown, fine to coarse, rare gravel, no plasticity, moist, med. dense		(0.0)
6	SM/SC	silty sand, SM/SC, 2.5y 4/4 olive brown, fine to medium, slight plasticity, damp, med. dense		(0.0)
7	SP	inc. sand size, SP, 2.5y 4/4, fine to med., no plast, moist, wet med. dense	W-10-7 @ 0934	(0.0)
8				
9	GM	silty gravel, GM, 10Y 4/1, dk green/du gray, fine to coarse-grained, no plasticity, v. moist, med dense		(0.0)
10				
11			W-10-11 @ 0936	(0.0)
12				
13		saturated, color change to R 5/4 clayey silt, MH, 10Y 2/2, yellowish brown, fine-grained, med to high plast, wet, fine to stiff		(0.0)
14	MH GM	saturated silty gravel, 10Y 5/4, fine to coarse, no plast, v. moist to wet, loose		(0.0)
15				
16		quartz vein or cobble		
17		saturated		(0.0)
18			W-10-20 @ 0941	(0.0)
19				
20				
		* No free product or sheen observed on bather * Water sample @ 0945 (2 ampers, 3 vials)		



SAND
CLAY



SILT
GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/18/11
Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/18/11
Project: DDRUKiah

Soil Boring Lithology for
W-10

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM & SP	silty sand, SM, 2/5 to 1/2 lt. yellowish brown, fine to coarse & gravel no plast., dry, very loose silty sand, 10YR 2/1, black, gravel/sand (broken up)	W-11-1 @ 840 W-11-2 @ 841.7	(0.0)
2				
3				
4	SM/SW	silty sand, SM/SW 10YR 4/2, dk grayish brown, fine to coarse grained, no plast., moist, loose		(0.0)
5	SM	silty sand, SM, 10YR 4/2, brown, fine grained, no plast, damp, med. dense		
6				(0.0)
7			W-11-7 @ 849	
8	GM	silty gravel, GM 10YR 4/1, dk greenish gray, fine to coarse grained no plasticity, damp, med dense		(0.0)
9				
10				(0.0)
11			W-11-11 @ 853	
12				(0.0)
13		dk greenish gray some layers 10YR 4/1 to 5Y 4/3 olive		
14		close change to 10YR 5/6 yellowish brown		(0.0)
15	GM			
16				(0.0)
17		saturated 10YR 4/1 layer chalcodony layer/rock?		
18		saturated		(0.0)
19		*No free product or sheen observed	W-11-19 @ 855	
20				

SAND

SILT

CLAY

GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/18/11
Geologist: RLM

Environmental Services & Technology

Date: 8/18/11
Project: DDR, UKiah

Soil Boring Lithology for

W-11

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SP/SM	silty sand, SM, 10YR 6/3, dk brown, fine-grained w occ pebble/gravel no plat, dry, loose very		
2	SM	silty sand, SM, 10YR 4/4, dk yellowish brown, fine-grained	W-12-2.5 @1025	(0.0) 0-4
3				
4	ML	silt ML, 10YR 4/4, dk yellowish brown, fine-grained, low plasticity, damp, firm to stiff		(0.0) 4-8
5				
6				
7	SM	silty sand, SM, 10YR 4/4, fine to med. sm-grained, no plat, damp to v. damp, med dense	W-12-7.5 @1028	(0.0)
8				
9	GM	silty gravel, GM, 5Y 7/3 olive, fine to coarse-grained, no plat, med. dense, moist to damp		(0.0) 8-12
10	↓			
11	GW	moist	W-12-11 @1030	(0.0)
12		5G 4/4, dk greenish gray		
13				(0.0)
14		color change to 2.5Y 5/4 light olive brown, more fines		(0.0) 12-16
15				
16		dry gravel zone / caliche?		(0.0)
17				
18			W-12-18.5 @1033	(0.0) 16-20
19				
20				



SAND

CLAY



SILT

GRAVEL

Drilling method:

Direct Push

Sampling method:

Macrocore

Drilling date:

8/18/11

Geologist:

RLM

WEST
 Environmental Services & Technology

Date:

8/18/11

Project:

DDR, UKiah

Soil Boring Lithology for

W-12

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SW SR	fine sand silty sand, SM/SP, 10YR 6/2, pale brown, fine-grained w/ coll. (CRASE of gravel, no plast, dry, loose fine grain size 10YR 5/2 grayish brown	W-13-1.5 @112	(0.0)
2				0-4
3				
4	SW/SL	clayey silty sand, SM/SL, 5Y 4/2, olive, fine-grained, low plasticity, damp, medium dense (mottled w/ 10GY 5/1, greenish gray)		(0.0)
5				4-8
6				
7			W-13-7.5 @114	(0.0)
8	GM	clayey silty gravel, GM, 5Y 4/2, olive gray, no plast, moist, med. dense		(0.0)
9				8-12
10				
11				
12			W-13-12 @118	(0.0)
13		same		12-16
14				
15				
16		- color change 10YR 4/3 brown		
17			W-13-17.5 @120	(0.0)
18				16-20
19		* No free product or sheen observed in bailer		
20				



SAND



SILT

Drilling method:

Direct Push

Drilling date:

8/18/11

Sampling method:

Macrocore

Geologist:

RLM



CLAY



GRAVEL

WEST
Environmental Services & Technology

Date:

8/18/11

Project:

DDR.VKiah

Soil Boring Lithology for

W-13

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM/SP	silty sand, SM/SP, 10% R 6/3, pale brown, fine-grained w/ occ. pebbles gravel no plast, dry, loose ↓ darkens, more clast s	W-14-2 @ 125	(0.0)
2				(0.0)
3				
4	SW/SM	sand, SW/SM, 2.5% 4/4, olive brown, fine to coarse w/ gravel, no silt, no plast, med. clay part, on damp, med. dense	W-14-4.5 @ 120.4	(0.2)
5	M.L.	silt, M.L., 2.5% 4/4, olive brown, fine-grained, (slight odor) slight plast, slightly damp, firm to stiff		
6				
7			W-14-7 @ 112.7	(0.0)
8	GM	silty gravel, GM, 56% 3/1, v. dk. greenish gray, fine to coarse - grained, no plast, moist, med. dense		(0.0)
9				(0.0)
10				(0.0)
11			W-14-11 @ 1130	
12				(0.0)
13	GW	fine to coarse gravel, coarse sand, GW, 10% 2/4, v. yellowish brown, med. to coarse grained, no plast, wet to very wet, med. dense to loose		(0.0)
14				
15				
16		-saturated		
17				
18			W-14-18.5 @ 1135	(0.0)
19				
20				



SAND

CLAY



SILT

GRAVEL

Drilling method:

Direct Push

Sampling method:

Macrocore

Drilling date:

8/18/11

Geologist:

RLM

WEST
Environmental Services & Technology

Date:

8/18/11

Project:

DDR, UKiah

Soil Boring Lithology for

W-14

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		concrete (3")		(0.0)
1		silty sand, SM/SW, 10YR 4/2, fine to coarse grained, no plasticity, dry,		
1		loose		
1		color change 2.5YR 4/3 olive brown		
2	SM/SW		W-15-2.5 @ 1327	(0.0)
3				
4	SM/SC	silty/clayey sand, SM/SC, 6.5Y 4/1, dk greenish gray, fine to med. grained, low to no plasticity, damp		(0.0)
5				
6	ML	sandy silt, ML, 5Y 4/3 olive, fine grained, low plast, damp, stiff		(0.2)
7		silty/clayey sand, SM/SC, 5Y 4/3, olive, fine to coarse grained, no plast, damp, dens		(0.0)
8		silty gravel, GM, 5.5Y 4/1, dk greenish gray, fine to coarse, no plast, slightly damp to moist	W-15-8 @ 1332	(0.0)
9				
10				
10.6	GM		W-15-11 @ 1338	(0.1)
11				
12		hard pan, rock		(0.0)
13		color change to 5Y 4/3 olive, GM		
14				
15				(0.0)
16				(0.0)
17				(0.1)
18		• No free product, no sheen visible in bailer • water sample @ 1420 (3 VOCAs, 2 Ambers)	W-15-18.5 @ 1323	
19				
20				

SAND

SILT

CLAY

GRAVEL

Drilling method: Direct Push Drilling date: 8/16/11

Sampling method: Macrocore Geologist: LLM

Date: 8/16/11

Project: DDR, Ukiah

Soil Boring Lithology for

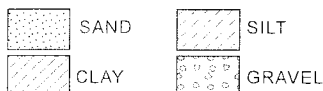
W-15

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1		Concrete		(0.0)
1		sand/gravel, SW/GM, 2.5Y 3/2, v. dk grayish brown, med to coarse, damp, loose, no plast. Blue coloration @ 1.5', slight odor	W-16-2 12122	(0.0)
2	SW			0-4
3				
4		inc. silt, no plast, 5Y 3/1		(0.0)
5			W-16-55 1229	(0.0)
6				4-8
7		silty/sandy gravel, 10YR 3/1, v. dk gray, fine to coarse, no plast, damp, loose to med. dense		
8	GM			(0.0)
9				(0.0)
10				(0.0)
11		drier zone	W-16-11 12127	(0.0)
12				
13				(0.0)
14		very moist	wet	(0.0)
15				(0.0)
16				12-16
17		color change to 2.5Y 4/4, olive brown		
18				PID Scan 0-0.1
19				16-20
20		No free product/no sheen observed in bailer	W-16-20 @ 12119	

 SAND  CLAY	 SILT  GRAVEL	Drilling method: <u>Direct Push</u> Sampling method: <u>Macrocore</u>	Drilling date: <u>8/16/11</u> Geologist: <u>RLM</u>
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	Date: <u>8/16/11</u>	Soil Boring Lithology for <u>W-16</u>
	Project: <u>DDR, UKach</u>	

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SW	Concrete 3" ^{3/1 v. dk. gray} sandy, silty sand, SW, fine to coarse, grained, dry to slightly damp no plast.; med. dense, slight odor color change 10YR 4/2, no odor/no visible staining	W-17-05 @1211	(0.0)
2				(0.1) 0-4
3		color change 10YR 4/2, mottled, Fe oxide staining	W-17-3 @1132	(0.1)
4	SM	color change to 10G 3/1, silty sand, silt/cl, fine to med-grained, damp low plast., firm		
5		inc. sand		(0.4)
6				(0.1) 4-8
7	GM	GM silty gravel, ^{1/2} 3/1 ^{very dark} dk. gray, fine to coarse, no plast, damp, loose to med. dense	W-17-8 @1134	(0.1)
8				
9				
10	GM			PID scan (0.1) 8-12
11				
12			W-17-12 @1137	
13	GM	very moist (wet)		PID scan (0.1) 12-16
14		color change 5Y 4/2, dk. gray, silty, fine to coarse, very moist, med. dense no plasticity		
15				PID scan 0-0.1 16-20
16	GM			
17				
18		• No free product/no sheen in bailer • water sample @ 1500 (2 Ambers)		
19				
20			@180 W-17-20	



Drilling method: Direct Push Drilling date: 8/16/11
Sampling method: Macro Core Geologist: RLM



Date: 8/16/11
Project: DDR. UKiah

Soil Boring Lithology for
W-17

LITHOLOGY				SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.	
1	SW	Concrete 3" sand, SW, fine to coarse-grained, dry, no. plast., med. dense, pxt		(0.0)	
2		5/16" color change to 10YR 3/2 vdk. grayish brown	W-18-2 @ 1632		
3					0-4
4	SM	silty sand, sm, fine to med. grained, 10Y 3/1 v. dk. greenish gray, slight plast., damp, med. dense		(0.0)	
5					
6			W-18-6 @ 1635		4-8
7	GM				
8					
9		silty gravel, GM, 50% 5/16", greenish gray fine to coarse-grained, no plast., slightly damp, med. dense		(0.0)	
10	10.9				
11					8-12
12					
13			moist		
14			wet	W-18-10.5 @ 1636	12-16
15					
16					
17		color change 2.5Y 5/4 to olive brown, wet		(0.0)	
18				(0.0)	
19		* No free product or sheen observed on barrel	W-18-19 @ 1638	(0.0)	16-26
20					



SAND



SILT

CLAY

GRAVEL

Drilling method: Direct PushDrilling date: 8/16/11Sampling method: Direct Push
MacrocoreGeologist: RLM
WEST
Environmental Services & Technology
Date: 8/16/11Project: DDR. Ukiah
Soil Boring Lithology for
W-18

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SW	Concrete (3")		(0.0)
2		Sand SW, 10YR 5/1, gray, fine to medium-grained, no no plast., color change 2.5Y 5/4 ↓ inc. silt dry, loose	W-19-2 @1640	0-4
3				
4				
5	SM	silty sand SM, 5GY 4/1, dk. greenish gray, fine to med. grained, low to no plast., damp, med. dense		(0.0)
6			W-19-6.5 @1650	4-8
7				
8				
9	GM	silty gravel GM, 6GY 5/1, greenish gray, fine to coarse-grained, no plasticity, slightly damp, med. dense		(0.0)
10			W-19-10.5 @1647	8-12
11				
12				
13		Wet	moist/wet	
14			wet	
15				12-16
16				
17		saturated		
18		color change 10YR 4/4, dk. yellowish brown, moist		(0.0)
19		* No free product or sheen observed on bailer	W-19-18.5 @1644	16-20
20				

SAND

CLAY

SILT

GRAVEL

Drilling method: Direct Push
 Sampling method: Macrocore

Drilling date: 8/16/11
 Geologist: RLM

Environmental Services & Technology

Date: 8/16/11
 Project: DDR-VKiah

Soil Boring Lithology for

W-19

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SW	concrete (3")		(0.0)
2		sand, silty sand, SW 2.5Y 3/3 dk. olive brown, fine to coarse-grained, slightly damp, no plasticity, loose	W-20-2 @1155	(0.0)
3				
4	SM	silty/clayey sand, SM/SC, PYR 4/4 dk. yellowish brown, damp, low plast, loose to med. dense		(0.0)
5				
6			W-20-6 @1300	(0.0)
7	GM			
8				
9		silty gravel, GM, 10YR 3/1 v. dk. gray, fine to coarse, no plast., damp, loose to med. dense		
10	G.Y.			
11				
12			W-20-12 @1302	(0.0)
13		color change to 2.5Y 5/3 dk. olive brown		(0.0)
14				
15				(0.0)
16				
17				(9.0)
18				
19		No free product/no sheen observed in bailer		
20		Water sample @1510 (2 Ambers)	W-20-20 @1252	(0.0)

 SAND

 SILT

 CLAY

 GRAVEL

Drilling method: Direct Push
 Sampling method: Macrocore

Drilling date: 8/16/11
 Geologist: ALM



Date: 8/16/11
 Project: DDR. UK rich

Soil Boring Lithology for
W-20

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM	Concrete 3" Sand, SM, 10YR 4/1, v. dk brown, fine-grained, no plast, dry, med color change 10YR 4/1 dk. yellowish brown		(0.0)
2		Sand, SW, 10YR 5/4, yellowish brown, fine to coarse-grained, no plast, dry, med. dense	W-21-2 @ 1509	0-4
3	SW			
4	GM	silty, damp sand, SM, 10YR 5/4, fine to med.-grained, no plast, slightly damp med dens		
5	to SC	inc. clay		
6	SM	silty gravel, GM, 10YR 4/4, fine to coarse-grained, no plast, damp, med dense to dense	W-21-7 @ 1517	(0.0) 4-8
7		Color change to 5.0Y 3/1 v. dk greenish gray		
8		color change		(0.1)
9				
10				(0.0) 8-12
11			W-21-11 @ 1522	
12				
13				(0.0)
14				12-16
15				
16		color change to 10YR 4/4 dk. yellowish brown ↓		
17		hard pan layer		(0.2)
18			W-21-18.5 @ 1403	(0.0) 16-20
19		No free product/no sheen observed in bailer		
20				



SAND



SILT

CLAY

GRAVEL

Drilling method: Direct Push
Sampling method: Macrocore

Drilling date: 8/16/11
Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/16/11Project: DDR. Utah

Soil Boring Lithology for
W-21

LITHOLOGY				SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.	
1	SM	concrete 4" / silty sand, SM, 10YR, dk. brown, fine-grained, no plast, dry, med. dense	W-22-1 @ 1249	(0.0)	0-4
2					
3					
4	SM/SC	silty/clayey sand, SM/SC, 10YR 4/4, dk. yellowish brown, fine to med- grained, low to no plast, slightly damp, loose to med. dense		(0.0)	
5					4-8
6	ML SM/SC	sandy silt, ML, 10YR 4/4, fine to med-grained, low plast, slightly damp, firm back to SM/SC	W-22-7 @ 1345	(0.0)	
7					
8	GM	silty gravel, GM, 10YR 5/4, yellowish brown, no plast, slightly damp, med. dense			
9					(0.0)
10					
11		color change SG 4/1 dk. greenish gray / mottled	W-22-16 @ 1350	(0.0)	
12					
13					(0.0)
14		color change 10YR 5/4 purple/lavender rock layer		(0.0)	16-20
15					
16	GM				
17		WEST			
18					(0.0)
19		no free product/no sheen observed in bailer	W-22-19 @ 1246	(0.1)	16-20
20					



SAND

CLAY



SILT

GRAVEL

Drilling method:

Direct Push

Sampling method:

Macrocore

Drilling date:

8/16/11

Geologist:

RLM

WEST
Environmental Services & Technology

Date:

8/16/11

Project:

DDR.VKiah

Soil Boring Lithology for

W-22

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
0		Concrete 4"		
1		Silty sand, SN, 10YR 2/1, v. dk. brown, fine-grained, no plast., dry to damp, med. dense color change to 10YR 5/1		
2			W-23-2 @1622	(0.0)
3	SM			
4				
5				(0.0)
6			W-23-6.5 @1624	4-8
7				
8				
9	GM	Color change & change to gravel, GM, 10Y 4/1, dk. greenish gray, fine to coarse-grained, no plast. clay, moist to slightly damp, med. dense		(0.0)
10				8-12
11			W-23-11 @1627	(0.0)
12		purple gravel/rock		
13		color change. 10YR 5/3, brown		(0.0)
14		wet		(0.0) 12-16
15				
16				
17				(0.1) 16-20
18			W-23-18 @1630	
19		No free product/no sheen observed in bailer		
20				

SAND

CLAY

SILT

GRAVEL

Drilling method: Direct Push

Sampling method: macrocore

Drilling date: 8/16/11

Geologist: RLM

Date: 8/16/11

Project: DDR. v. kiah

Soil Boring Lithology for

W-23

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	GP SM	concrete gravel, 10P, 10YR 4/2, dk grayish brown, fine to coarse, no plast, dry, silty sand, SM, 10YR 4/2 v. dk brown, fine - grained, no plast, damp, med. dense		(0.0) 0-4
2			W-24-25 @1603	
3				
4		silty/clayey sand, SM/SC, 10YR 4/4 dk yellowish brown, fine to med. grained, low to no plasticity, damp, med. dense		
5	SM SC			
6			W-24-7 @1607	(0.0) 4-8
7				
8		product starts greenish gravel, mottled/discolored w/ 50Y 3/1		(0.0)
9	GM	silty gravel, 6M 50Y 4/1, dk greenish gray, fine to coarse-grained, no plasticity, moist, med. dense		(0.0) 8-12
10			W-24-11 @1610	
11				
12				
13				(0.0)
14		wet		(0.0) 12-16
15				
16		color change 10YR 4/3 brown, ^{med.} fine to coarse, no plast, v. moist, med. dense		
17				(0.0) 16-20
18			W-24-18.5 @1614	
19		• No free product/no sheen visible in bailer • Water sample @ 1530 (15meters)		
20				



SAND

CLAY



SILT

GRAVEL

Drilling method:

Direct Push

Sampling method:

Macrocore

Drilling date:

8/16/11

Geologist:

RLM

WEST
 Environmental Services & Technology

Date:

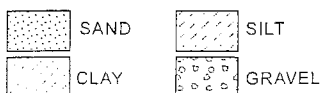
8/16/11

Project:

VDR. UKiah

 Soil Boring Lithology for
 W-24

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	fill	Asphalt, 1" gravel fill/sand base,		(0.0)
2		silty sand, sm, 10YR 3/2 v. dk gray, d. brown, fine to med. w/ occ. gravel, no plast. city, damp, loose to		(0.1)
3	SM		W-25-3 @1220	
4		fine sand, sm, 10YR 4/6 yellowish brown, fine to med. w/ gravel, no plasticity, damp, loose		(0.0)
5	SM			
6				
7				
8		silty gravel, GM, 5GY 4/1, dk greenish gray, fine to coarse grained, no plast, damp, loose to med. dense	W-25-8 @1223	(0.0)
9		slightly damp		
10		moist		
11	GM			
12				
13		wet to saturated	W-25-12 @1227	(0.0)
14		micaceous layers, damp		
15				
16		color change 2.5Y 4/3, dr. brown, less fines		
17				
18			W-25-18.5 @1230	(0.0)
19		* No free product or sheen observed in bailer		
20				



Drilling method: Direct Push
Sampling method: Macrocore

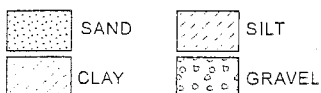
Drilling date: 8/18/11
Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/18/11
Project: DDR. Ukiah

Soil Boring Lithology for
W-25

LITHOLOGY				SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.	
1	SW	silty sand, SW 1/2, 10YR 5/3, brown, fine-grained w/ occ. pebble, no plast, dry, loose	W-26-1 @1215	(0.0)	0-4
2					
3					
4	SW	gravelly sand, SW 1/2, olive gray, no plast, fine to coarse- grained, dry, loose		(0.1)	4-8
5					
6					
7					8-12
8	GM	silty gravel, GM, 10Y 4/1, dk. greenish gray, no plast, damp to moist, med. damp	W-26-8 @1350	(0.0)	
9				(0.4)	
10			W-26-9.5 @1405	(0.6)	12-16
11				(0.0)	
12					
13			W-26-12 @1345	(0.0)	16-20
14		color change to 10YR 4/6, dk yellowish brown wet			
15					
16					
17					
18			W-26-18.5 @1350	(0.0)	
19		* no free product/no sheen observed on bailer			
20		* water sample @1250 (2 Ambers)			



Drilling method: Direct Push Drilling date: 8/17/11
Sampling method: Macrocore Geologist: RLM

WEST
Environmental Services & Technology

Date: 8/17/11
Project: DDR. Ukiah

Soil Boring Lithology for
W-26

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SP/SM	asphalt 3/4 silty sand, SP/SM, 10% P 3/4, & dk gray, fine to med w/ ool gravel, no plast, slightly admp, med dense		(0.0)
2	SM	less gravel	W-27-2 @ 1125	(0.0)
3				
4	SC	color change 56Y 4/1 dk greenish gray, slight plast, SC, low plasticity		(0.0)
5				
6		Moist		(0.0)
7			W-27-7 @ 1128	(0.0)
8				
9	GM	silty gravel, GM, 56Y 4/1, dk greenish gray, no plast, med, med dense to loose		(0.0)
10				(0.0)
11			W-27-11 @ 1131	(0.0)
12				(0.0)
13				(0.0)
14		color change 10Y 6/1 greenish gray		(0.0)
15				
16		color change 10YR 4/4 dk yellowish brown, less silt		
17				
18				(0.0)
19		• No free product or sheen observed on bailer • Water sample @ 1225 (2 Ambers)	W-27-19 @ 1134	
20				



SAND

CLAY



SILT

GRAVEL

Drilling method: Direct PushSampling method: MacrocoreDrilling date: 8/17/11Geologist: RLW
WEST
 Environmental Services & Technology
Date: 8/17/11Project: DDR, vKich
 Soil Boring Lithology for
W-27

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM	Asphalt silty sand, SM, 2.5Y 3/1 v. dk gray, fine-grained, dry, loose, no plast.		(0.0)
2	ML	sandy silt/silty sand, ML/SM, 2.5Y 3/1, fine clay, slight plast, slightly damp, fine-grained		(0.0)
3				
4	CL	color change 10GY 3/1, y dk greenish gray clayey sand, fine-grained		(0.0)
5				
6	SC	sandy clay, CL, 10GY 3/1, fine-grained, mod. plast, damp, firm to stiff		(0.0)
7	SC	silty/clay sand, SC, 10GY 3/1, fine-grained, mod to low plast, damp, med. dense		
8	SM	silty sand, SM, low/no plasticity		(0.0)
9	GM	silty gravel, GM, 10GY 3/1, fine to med-grained, no plast, damp, med. dense		(0.0)
10		↓ inc. grain size		(0.0)
11				
12		v. moist		(0.0) OK - full recovery
13				(0.0)
14				
15				(0.0)
16		color change/mottled 10YR 5/4 yellowish brown, same as wet above		(0.0)
17		↓		(0.0)
18				(0.0)
19		No free product observed nor odor * water sample @ 1140 (2 Amberst 3 VOAS)	W-28-19.5	(0.0)
20				

SAND
 SILT

CLAY
 GRAVEL

Drilling method: Direct Push Drilling date: 10/27/11
 Sampling method: Dial 22 Geologist: KLIM

Environmental Services & Technology

Date: 10/27/11
 Project: DDR. Ukiah

Soil Boring Lithology for
W-28

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
1	SM	Asphalt silty sand SM, 10YR 3/2, v. dk grayish brown, fine-grained w/acc. gravel no plast, slightly damp, loose color change 2YR 4/3, olive brown vinc. gravel		(0.0)
2				(0.0)
3				
4				
5	SM/GM	clayey sand less gravelly sand sandy gravel 5GY 4/1, dk greenish gray fine to med.-grained med. to coarse, no plast, loose, damp, large gravels		(0.0)
6				
7				
8				
9	GM			(0.0)
10		moist to wet		(0.0)
11				
12	GW	inc. sand size → med. to coarse-grained gravel GW, 5GY 4/1, med. to coarse, no plasticity, moist, loose to med. dense wet color change 10YR 4/4 dk. yellowish brown		(0.0)
13				(0.0)
14				(0.0)
15				
16				(0.0)
17	GW	damp		
18		wet	W-29-185 @1245	16-20
19				
20		No free product observed nor hydrocarbon odor → slight organic odor? *water sample @ 1300 (2 Ambers + 3 VOAs)		

SAND

CLAY

SILT

GRAVEL

Drilling method: Direct Push

Sampling method: Dual 22

Drilling date: 10/27/11

Geologist: RLM

Environmental Services & Technology

Date: 10/27/11

Project: DDR. UKiah

Soil Boring Lithology for

W-29

LITHOLOGY			SAMPLE DATA	
Depth (feet)	Graphic Log	Description	Sample No. & Interval	(PID) / Core Interval, Ft.
.....	Asphalt			
1		silty sand, SM, 10YR 3/3, dk. brown, fine-grained w/ rare gravel, slightly damp, loose, no plasticity		(0.0)
2	SW	color change 10YR 4/3, brown	5	(0.0) 0-4
3				
4	SP/SM	gravelly/silty sand, SM/SP, 10YR 4/3, brown, no plast, slightly damp		(0.0)
5	ML	clayey silt ML, 10YR 4/3, brown, low plast, fine-grained, dry to slightly damp, soft to firm	0	(0.0) 4-8
6		gravelly sand, SW, 10YR 4/3, brown,		(0.0)
7	SW		5	
8				
9		gravelly sand / silty gravel SW/SM, 10YR 4/3 brown, no plast., fine-grained w/ gravel, slightly damp, loose		(0.0)
10	SW	mottled w/ 5B6 3/1, dk. greenish gray	0	(0.0) 8-12
11	GM	- v. moist		(0.0)
12		- wet/v. moist		
13		color change 5B6 3/1	5 W-31-12 @1000	(0.0) 12-16
14		- v. moist/wet		(0.0)
15		- mottled w/ 10YR 4/3, brown damp	0	(0.0)
16				(0.0)
17			5	
18		v. moist		(0.0) 16-20
19		* no sheen or odor observed * water sample @ 1020 (2 Ambers/ 3 VOCs)	W-31-18.5 @0958	
20			0	



SAND



SILT

CLAY

GRAVEL

Drilling method: Direct PushDrilling date: 10/27/11Sampling method: Dial 22Geologist: RLM
WEST
 Environmental Services & Technology
Date: 10/27/11Project: DDR. Ukiah
 Soil Boring Lithology for
W-31

Appendix B

Boring Logs for TW-1 and TW-2

Date (start, end): 3/4/13 - 3/4/13 Drilling Time (start, end) 07:50 - 08:30 Logged By: Paul Wisniewski Checked By: Steven Clements	Boring No. TW-1	Boring Location: 430 Ford Road (APN) 170-200-005 See Unified Soil Classification System (USCS) for Legend and information not noted.
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Drilling Contractor: <u>Clear Heart Drilling, Inc.</u> Driller's Name: <u>Rick Schneider</u> Drilling Method: <u>8-in. Hollow-Stem Auger</u> Sampling Method: <u>CMSS / SPT</u> Hammer weight / fall: <u>140 lbs / 30 inch</u> Notes: Temporary Well backfilled with cement slurry	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☒ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: <u>15.0</u> Total Depth, ft: <u>16.5</u>
---	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								610.0							
								609.5	1			10	30	60	TOPSOIL. CLAY (CL): with silt, brown, slightly moist, minor sand.
									2						
									3						
								606.0	4						SILTY SAND with Gravel (SM): oxidized, brown-orange, fine sand, fine to coarse gravel, slightly moist.
									5		30	20	30	20	
						No	No		6						
									7						
								601.5	8						
								601.0	9						Wet.
								600.0	10		50	25	15	10	GRAVEL with Silt and Sand (GM): light brown, wet, fine to coarse gravel, medium to coarse sand, minor clay.
									11						

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 4/10/13

SCS ENGINEERS

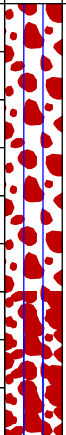
Environmental Consultants and Contractors
 3843 Brickway Boulevard, Suite 208
 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG TW-1

Former Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

TW-1
1 of 2

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
						No	No		13						GRAVEL with Sand (GM): Silt, minor clay, wet, fine-coarse gravel.
									14						
									15						
									16						
									16.5						
									17						TOTAL DEPTH = 16.5 FEET
									18						
									19						
									20						
									21						
									22						
									23						
									24						
									25						
									26						
									27						

SCS ENGINEERS

Environmental Consultants and Contractors
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 Santa Rosa, California 95403
 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG TW-1

Former Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

TW-1
 2 of 2

Date (start, end): 3/4/13 - 3/4/13 Drilling Time (start, end) 09:55 - 12:45 Logged By: Paul Wisniewski Checked By: Steven Clements	Boring No. TW-2	Boring Location: 650 Ford Road (APN) 170-200-16 See Unified Soil Classification System (USCS) for Legend and information not noted.
---	---------------------------	--

Drilling Contractor: Clear Heart Drilling, Inc. Driller's Name: Rick Schneider Drilling Method: 8-in. Hollow-Stem Auger Sampling Method: CMSS / SPT Hammer weight / fall: 140 lbs / 30 inch Notes: Temporary Well backfilled with cement slurry	MW Installed: Y ☐ N ☒ if no, boring backfilled with: Cement ☒ Bentonite: Cement ☐ Grout ☐ Chips ☐ Auger Depth, ft: 65.0 Total Depth, ft: 66.5
--	---

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
								603.3							
								602.3	1						TOPSOIL: Dark brown.
									2						
									3						
									4						
									5						
									6						CLAY (CL): Silty, medium brown, moist, soft.
									7						
									8						
								594.8	9						
									10						SILT (ML): with clay, medium brown, very moist, minor gravel.
								593.3	11						

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 4/10/13

SCS ENGINEERS

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BORING LOG TW-2

Former Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

TW-2
1 of 5

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA.GDT 4/10/13

2 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
									29						
									30						
									31						
									32						
								570.3	33						
									34						
									35						
								567.8	36						
									37						
									38						
								565.3	39						
									40						
								563.3	41						
									42						
									43						

SCS ENGINEERS

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 Ph.: 707-546-9461 Fax: 707-544-5769

BORING LOG TW-2

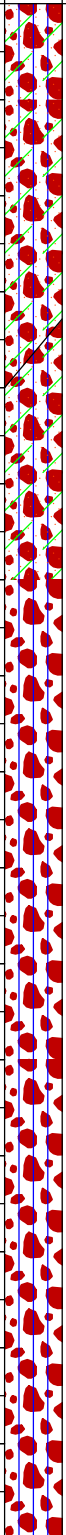
Former Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

TW-2

3 of 5

SCS-SANTA ROSA BORING LOG 01203377.00.GPJ SCS-SANTA ROSA GDT 4/10/13

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:
	5 0 0	50/5"	SPT		0.0			558.3	45		60	15	20	5	Gravel with silt, sand, very wet, dense light brown, fine to coarse gravel.
							No	555.3	46						
									47						
	6 0 0	50	SPT		0.0		↕	553.3	50		70	20	10	T	(GM): Fine to medium rounded gravel, wet.
									51						
						No	?		52						
									53						
									54						
	6 4 0	26 50/4"	SPT		0.0		↕	548.3	55		80	15	5		Fine to medium gravel, moist-wet.
									56						
									57						
							No		58						
									59						

SCS ENGINEERS

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BORING LOG TW-2

Former Masonite Property
Masonite Truck Road
Ukiah, California 95482
Job Number: 01203377.01

Figure:

TW-2
4 of 5

Sample	Inches Recovered	Blows / 6 in	Sampler Type	Water Levels	PID (ppm)	Odor	Discoloration	Elevation	Depth in Feet	Graphic Log	Gravel %	Sand %	Silt %	Clay %	Lithologic Description and Drilling Comments:	
	600	50/6"	SPT		0.0			543.3'	61		85	10	5	T	Wet, gravel with sand, dense minor silt, fine to coarse gravel, light brown, rounded to subangular.	
						No	No		62							
									63							
									64							
									65							
	600	50/6"	SPT		0.0			538.3'	65		80	15	5		Fine to coarse gravel with coarse sand, wet.	
						↓	↓	536.8'	66							
									67							
									68							
									69							
									70							
									71							
									72							
									73							
									74							
									75							
TOTAL DEPTH = 66.5 FEET																

SCS ENGINEERS

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BORING LOG TW-2

Former Masonite Property
 Masonite Truck Road
 Ukiah, California 95482
 Job Number: 01203377.01

Figure:

TW-2

5 of 5

APPENDIX 2

Boring/Test Pit Logs by LACO - 2017

BORING NUMBER BH1

PAGE 1 OF 1



21 W. 4th Street, Eureka, California 95501 707 443-5054 Fax 707 443-0553
 311 Main Street, Ukiah, California 95482 707 462-0222 Fax 707 462-0223
 3450 Regional Parkway, Suite B2, Santa Rosa, California 95403 707 443-5054 Fax 707 443-0553
 www.lacoassociates.com

CLIENT Friends of Liberty, LLC **PROJECT NAME** Preliminary Roadway Design
PROJECT NUMBER 7583.14 **PROJECT LOCATION** Masonite Rd. Ukiah, CA
DATE STARTED 12/15/17 **COMPLETED** 12/15/17 **GROUND ELEVATION** 648 ft **HOLE SIZE** 3 inches
DRILLING CONTRACTOR LACO **GROUND WATER LEVELS:**
DRILLING METHOD Hand Auger **AT TIME OF DRILLING** --- none
LOGGED BY NEB **CHECKED BY** BAV **AT END OF DRILLING** ---
NOTES Elev. Estimated with Google Earth, Lat 39.173808, Long -123.211205 **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
5		(CL) Light Brown Sandy Lean Clay with Gravel (FILL) moist, medium dense, low plasticity fine sand, subrounded fine gravels										85

Bottom of borehole at 5.0 feet.

BORING NUMBER BH2

PAGE 1 OF 1



21 W. 4th Street, Eureka, California 95501 707 443-5054 Fax 707 443-0553
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 www.lacoassociates.com

CLIENT <u>Friends of Liberty, LLC</u>	PROJECT NAME <u>Preliminary Roadway Design</u>
PROJECT NUMBER <u>7583.14</u>	PROJECT LOCATION <u>Masonite Rd. Ukiah, CA</u>
DATE STARTED <u>12/15/17</u> COMPLETED <u>12/15/17</u>	GROUND ELEVATION <u>649 ft</u> HOLE SIZE <u>3 inches</u>
DRILLING CONTRACTOR <u>LACO</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>--- none</u>
LOGGED BY <u>NEB</u> CHECKED BY <u>BAV</u>	AT END OF DRILLING <u>---</u>
NOTES <u>Elev. Estimated with Google Earth, Lat 39.176023, Long -123.210551</u>	AFTER DRILLING <u>---</u>

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		(CL) Pale Brown Sandy Lean Clay (FILL) moist, medium stiff, low plasticity fine sand	GB									85

Refusal at 4.0 feet.
 Bottom of borehole at 4.0 feet.



PAGE 1 OF 1

AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0		6 inches Concrete										
		(CL) Grayish Brown Sandy Lean Clay with Gravel (FILL) moist, stiff, medium plasticity red oxidation fine sand, fine gravels	MC	83	4-4-7 (11)							
			SPT	100	6-4-4 (8)							
5												
		(SC) Bluish Green Clayey Sand with Gravel moist, medium dense fine sand, fine gravel	MC	83	3-4-12 (16)							
			SPT	100	7-9-10 (19)							
10												
		(SC) Yellow Brown Clayey Sand with Gravel saturated, dense fine sand, rounded fine gravels	SPT		12-15-15 (30)							
Bottom of borehole at 12.0 feet.												

Bottom of borehole at 12.0 feet.

GEOTECH BH COLUMNS - GINT STD US LAB.GDT - 2/6/18 10:09 - P:\GINT FILES\PROJECTS\7583.14 LIBERTY PRELIMINARY ROADWAY DESIGN.GPJ



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CLIENT Friends of Liberty, LLC **PROJECT NAME** Preliminary Roadway Design
PROJECT NUMBER 7583.14 **PROJECT LOCATION** Masonite Rd. Ukiah, CA
DATE STARTED 12/18/17 **COMPLETED** 12/18/17 **GROUND ELEVATION** 617 ft **HOLE SIZE** 4 inches
DRILLING CONTRACTOR LACO **GROUND WATER LEVELS:**
DRILLING METHOD Solid Flight Auger **AT TIME OF DRILLING** --- none
LOGGED BY NEB **CHECKED BY** BAV **AT END OF DRILLING** ---
NOTES Elev. Estimated with Google Earth, Lat 39.173171, Long -123.208386 **AFTER DRILLING** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		2 inches AC										
		4 inches AB										
		(SC) Pale Yellow Brown Clayey Sand (FILL)	MC	83	8-6-8 (14)				20	16	4	
		moist, medium stiff										
		fine sand, small gravels	SPT	100	3-3-5 (8)							
		(CL) Grayish Brown Sandy Lean Clay (FILL)										
		moist, medium stiff, low plasticity										
5		(CL) Grey Sandy Lean Clay	MC	100	6-6-8 (14)							
		moist, hard, low plasticity										
		mottled brown	SPT	100	10-17-20 (37)							

Bottom of borehole at 8.0 feet.



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CLIENT Friends of Liberty, LLC

PROJECT NAME Preliminary Roadway Design

PROJECT NUMBER 7583.14

PROJECT LOCATION Masonite Rd. Ukiah, CA

DATE STARTED 12/18/17 COMPLETED 12/18/17

GROUND ELEVATION 639 ft HOLE SIZE 4 inches

DRILLING CONTRACTOR LACO

GROUND WATER LEVELS:

DRILLING METHOD Solid Flight Auger

AT TIME OF DRILLING --- none

LOGGED BY NEB CHECKED BY BAV

AT END OF DRILLING ---

NOTES Elev. Estimated with Google Earth, Lat 39.173442, Long -123.209260 AFTER DRILLING ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		2 inches AC										
		4 inches AB										
		(SC) Yellow Brown Clayey Sand with Gravel (FILL)	MC	83	8-8-9 (17)							
		moist, medium stiff										
		fine sand, small gravel	SPT	100	6-6-8 (14)							
		(SC) Yellow Brown Clayey Sand with Gravel										
		moist, medium stiff										
5		small to large gravel										
		orange oxidation	MC	83	7-7-11 (18)							
		(CL) Pale Yellow Sandy Lean Clay	SPT	100	5-3-3 (6)							
		moist, medium stiff, medium plasticity										
10		(SC) Gray Brown Clayey Sand with Gravels	MC	100	17-20-20 (40)							
		moist, dense										
		fine sand, small gravel										
		mottled orange										

Bottom of borehole at 12.0 feet.



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TEST PIT NUMBER TP1

PAGE 1 OF 1

CLIENT Friends of Liberty, LLC

PROJECT NAME Preliminary Roadway Design

PROJECT NUMBER 7583.14

PROJECT LOCATION Masonite Rd. Ukiah, CA

DATE STARTED 12/15/17 COMPLETED 12/15/17

GROUND ELEVATION 611 ft TEST PIT SIZE 60 inches

EXCAVATION CONTRACTOR LACO

GROUND WATER LEVELS:

EXCAVATION METHOD Backhoe

AT TIME OF EXCAVATION --- none

LOGGED BY NEB CHECKED BY BAV

AT END OF EXCAVATION ---

NOTES Elev. Estimated with Google Earth, Lat 39.169451, Long -123.206573

AFTER EXCAVATION ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		(CL) Moderate Brown Sandy Lean Clay with Gravel (FILL) moist, loose, low plasticity fine sand, small gravel										
		(CL) Grayish Brown Sandy Lean Clay moist, stiff, medium plasticity fine sand										
5		(CH) Gray Sandy Fat Clay wet, high plasticity fine sand mottled yellow										

Bottom of test pit at 6.0 feet.



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TEST PIT NUMBER TP2

PAGE 1 OF 1

CLIENT Friends of Liberty, LLC **PROJECT NAME** Preliminary Roadway Design
PROJECT NUMBER 7583.14 **PROJECT LOCATION** Masonite Rd. Ukiah, CA
DATE STARTED 12/15/17 **COMPLETED** 12/15/17 **GROUND ELEVATION** 606 ft **TEST PIT SIZE** 60 inches
EXCAVATION CONTRACTOR LACO **GROUND WATER LEVELS:**
EXCAVATION METHOD Backhoe **AT TIME OF EXCAVATION** --- none
LOGGED BY NEB **CHECKED BY** BAV **AT END OF EXCAVATION** ---
NOTES Elev. Estimated with Google Earth, Lat 39.168258, Long -123.205701 **AFTER EXCAVATION** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		(SC) Yellowish Brown Clayey Sand with Gravel (FILL) moist, medium dense fine sand, fine gravel										
		(CH) Grey Sandy Fat Clay moist, very stiff, high plasticity fine sand mottled orange										
5												

Bottom of test pit at 5.5 feet.



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TEST PIT NUMBER TP3

PAGE 1 OF 1

CLIENT Friends of Liberty, LLC **PROJECT NAME** Preliminary Roadway Design
PROJECT NUMBER 7583.14 **PROJECT LOCATION** Masonite Rd. Ukiah, CA
DATE STARTED 12/15/17 **COMPLETED** 12/15/17 **GROUND ELEVATION** 615 ft **TEST PIT SIZE** 60 inches
EXCAVATION CONTRACTOR LACO **GROUND WATER LEVELS:**
EXCAVATION METHOD Backhoe **AT TIME OF EXCAVATION** --- none
LOGGED BY NEB **CHECKED BY** BAV **AT END OF EXCAVATION** ---
NOTES Elev. Estimated with Google Earth, Lat 39.175832, Long -123.205771 **AFTER EXCAVATION** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		(CL) Yellowish Brown Sandy Lean Clay with Gravel (FILL) moist, stiff, low plasticity fine sand, fine gravel										
		(CL) Grayish Brown Sandy Lean Clay moist, very stiff, medium plasticity										
5			GB						38	19	19	

Bottom of test pit at 5.0 feet.



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TEST PIT NUMBER TP4

PAGE 1 OF 1

CLIENT Friends of Liberty, LLC **PROJECT NAME** Preliminary Roadway Design
PROJECT NUMBER 7583.14 **PROJECT LOCATION** Masonite Rd. Ukiah, CA
DATE STARTED 12/15/17 **COMPLETED** 12/15/17 **GROUND ELEVATION** 619 ft **TEST PIT SIZE** 60 inches
EXCAVATION CONTRACTOR LACO **GROUND WATER LEVELS:**
EXCAVATION METHOD Backhoe **AT TIME OF EXCAVATION** --- none
LOGGED BY NEB **CHECKED BY** BAV **AT END OF EXCAVATION** ---
NOTES Elev. Estimated with Google Earth, Lat 39.175833, Long -123.207213 **AFTER EXCAVATION** ---

DEPTH (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (RQD)	BLOW COUNTS (N VALUE)	POCKET PEN. (tsf)	DRY UNIT WT. (pcf)	MOISTURE CONTENT (%)	ATTERBERG LIMITS			FINES CONTENT (%)
									LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0												
		(CL) Dark Brown Sandy Lean Clay with Gravel (FILL) moist, stiff, low plastiity fine sand, fine gravel										
		(CL) Grayish Brown Sandy Lean Clay moist, very stiff, low plasticity fine sand, fine gravel trace roots/organics										
5												

Bottom of test pit at 5.0 feet.

APPENDIX 3

Laboratory Test Results

Concrete Cylinder Compressive Strength Report ASTM C39

Report Date: 12/14/17 **Project Name:** Liberty: Preliminary Roadway Design **LEA No.:** 285
Attention: Ross Liberty **Project Location:** Ukiah, California **DSA File No.:**
Client: Friends of Liberty, LLC **Structure:** Existing slabs **DSA App No.:**
Address: 1307 Masonite Road **Location of Structure:** **Exp. Date:** 7/2/2020
 Ukiah, CA 95482 **Grid line.:** --- **Lab Facility:** Santa Rosa
Project No.: 7583.14 **Specimen Type:** Cylinder Core **Lab Sample No.:** C-1,2,3,4

Mix Data Reported to LACO Associates

Supplier: **Admixtures:** **Cement Factor (sk/cy):**
Mix No.: **Design Strength:** N/A psi @ 28 days **Max. Size Agg.:**

Sample Data Observed by LACO Associates

Date Sampled: 12/08/17 **Set No.:** of total yds
Source of Sample: Road Slab **Batch Size (cy):** **Water Added (gal.):** N/A
Contractor:
Truck:
Ticket:
Slump (in) ASTM C143:
Sampled by: BAV **Air Temperature (F) ASTM C1064:** ---
Submitted by: BC **Mix Temperature (F) ASTM C1064:** ---
Time Batched: **Percent (%) Air ASTM C231/C173:** ---
Time Sampled: **Unit Weight (pcf) ASTM C138:** ---

Concrete Test Results Summary											
Sample Number		Date Tested	Sample Age (days)	Width (in)	Height (in)	Area (in²)	Ultimate Load (lbs)	Compressive Strength (psi)	Correction factor	Corrected Ultimate Load (psi)	Corrected Compressive Strength (psi)
C1	A	12/14/17	6	4.71	5.40	17.42	41280	2370	0.87	35910	2060
C2	B	12/14/17	6	3.98	7.20	12.44	110190	8860	0.98	107990	8680
C3	C	12/14/17	6	3.98	8.40	12.44	60100	4830	0	60100	4830
C4	D	12/14/17	6	3.98	5.30	12.44	75560	6070	0.93	70270	5650

☐ Information only

Average Strength:

The **Material X** WAS ___ WAS NOT sampled and Tested in Accordance with the Requirements of the Approved Documents.

The **Material Tested** ___ MET ___ DID NOT MEET the requirements of the Approved Documents.

Copies: Owner

Remarks:

	Core	C1	C2	C3	C4
As is	4.75x6	4x7	4x9	4x5	
cut	4.71x5.2	3.98x6.77	3.98x7.99	3.98x4.9	

Sampling of fresh Concrete per ASTM C172-14
Air Content by pressure method per ASTM C231-14
Making and curing of samples per ASTM C31-14

Capping Per ASTM	
x	C617
	C1231

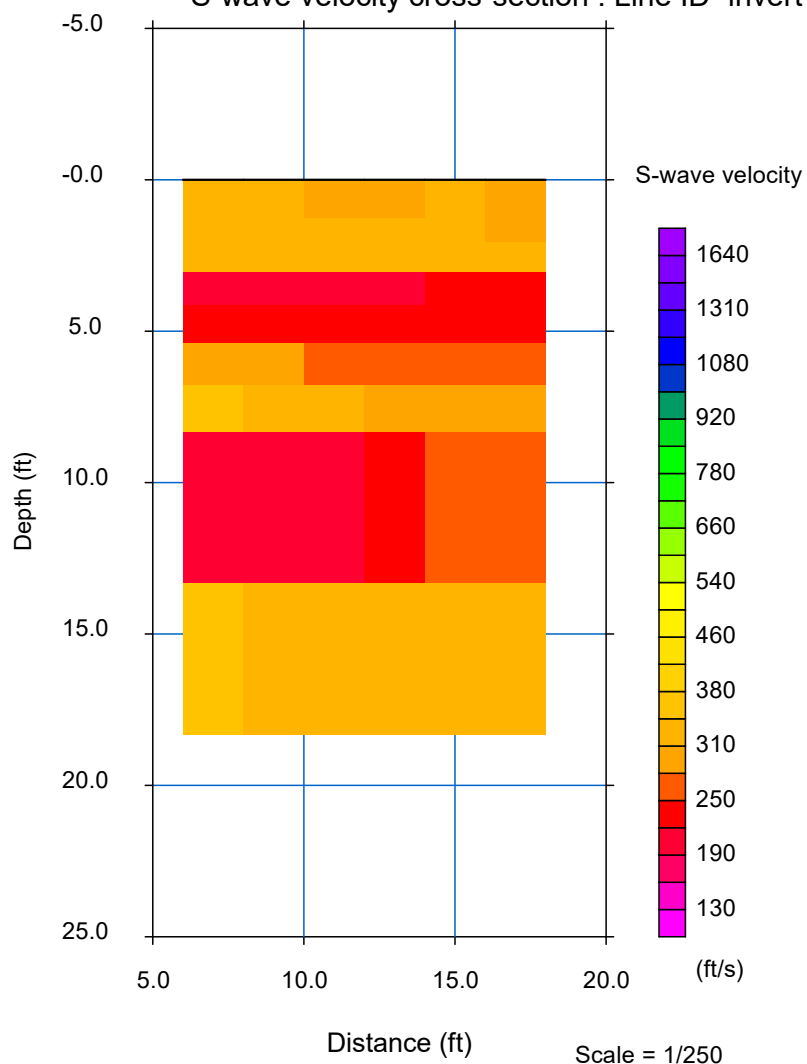
Date: 12/14/2017

By: Edward H. Crump, PE

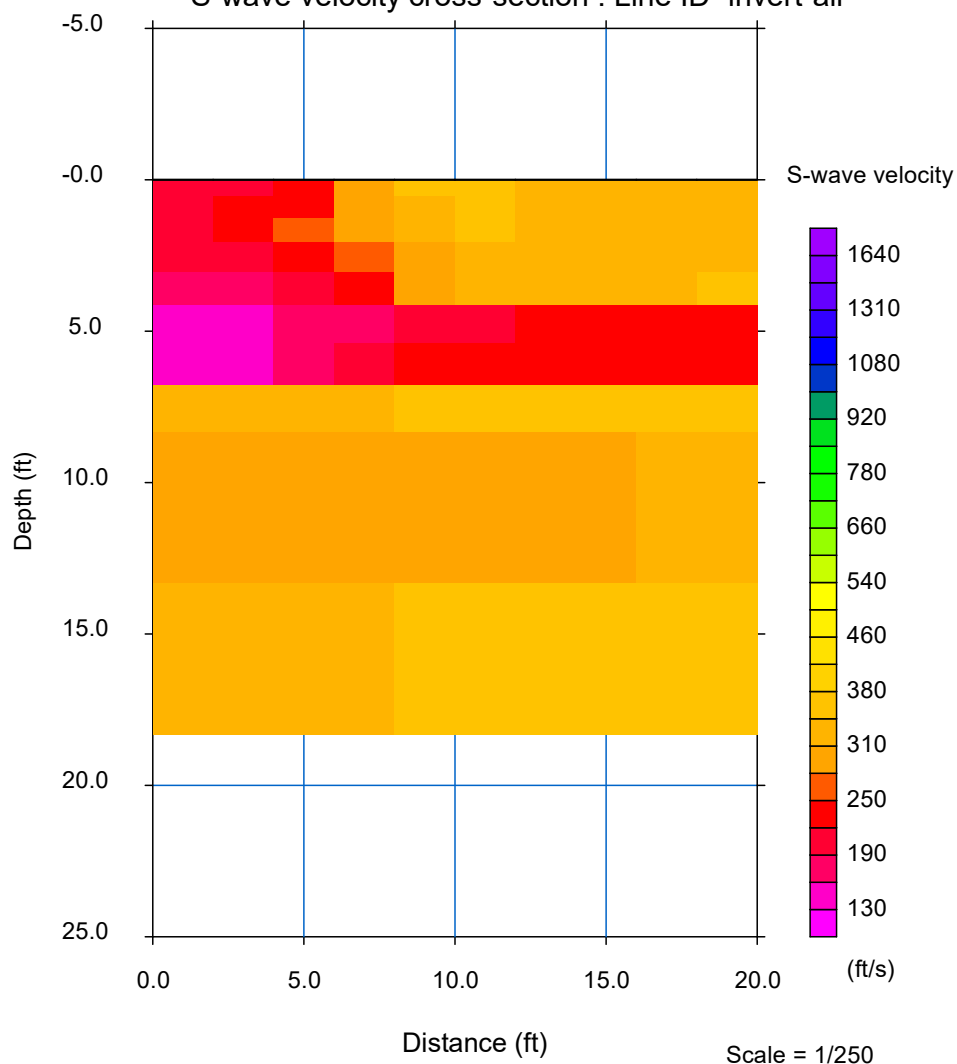
APPENDIX 4

Geophysical Survey Results

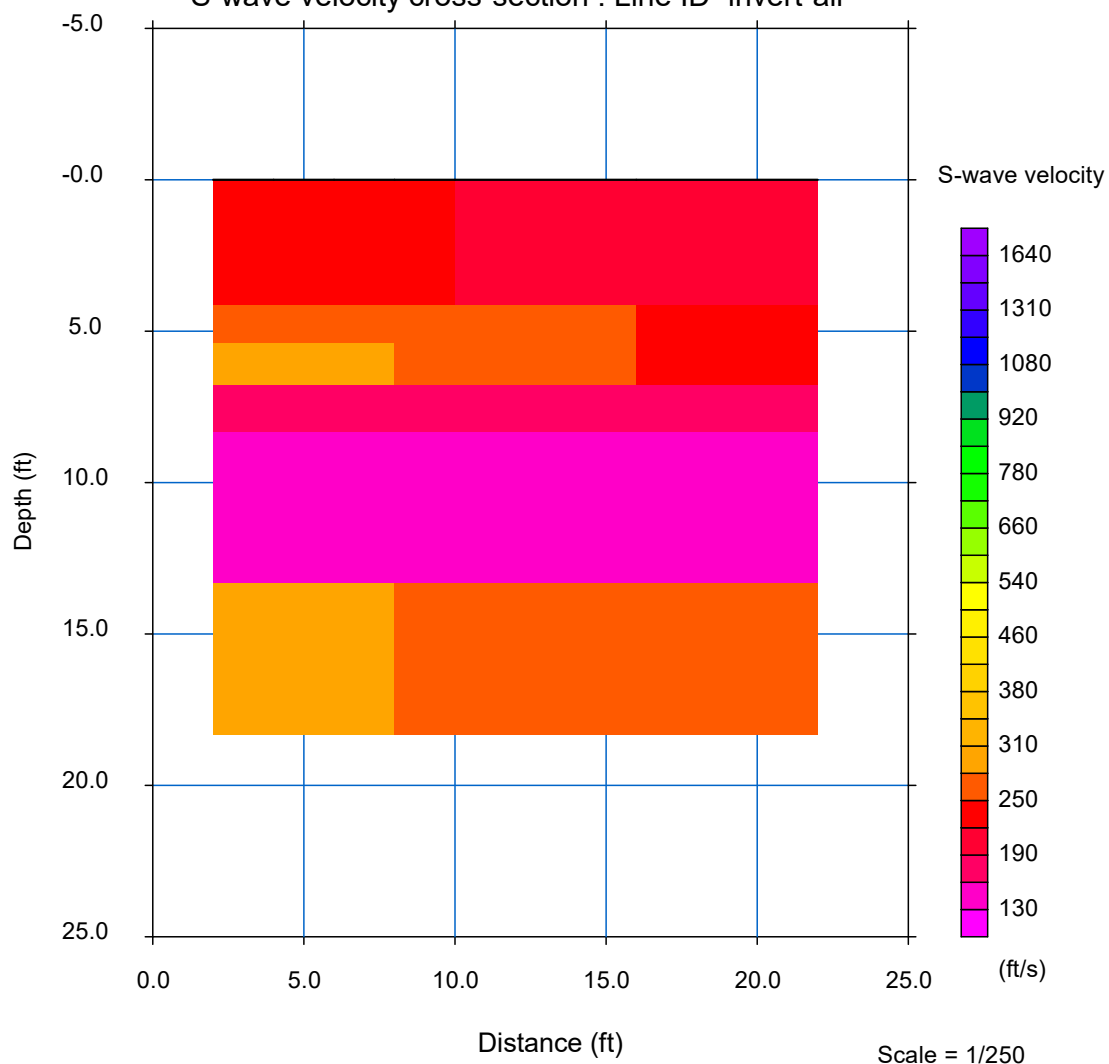
S-wave velocity cross-section : Line ID=invert-all



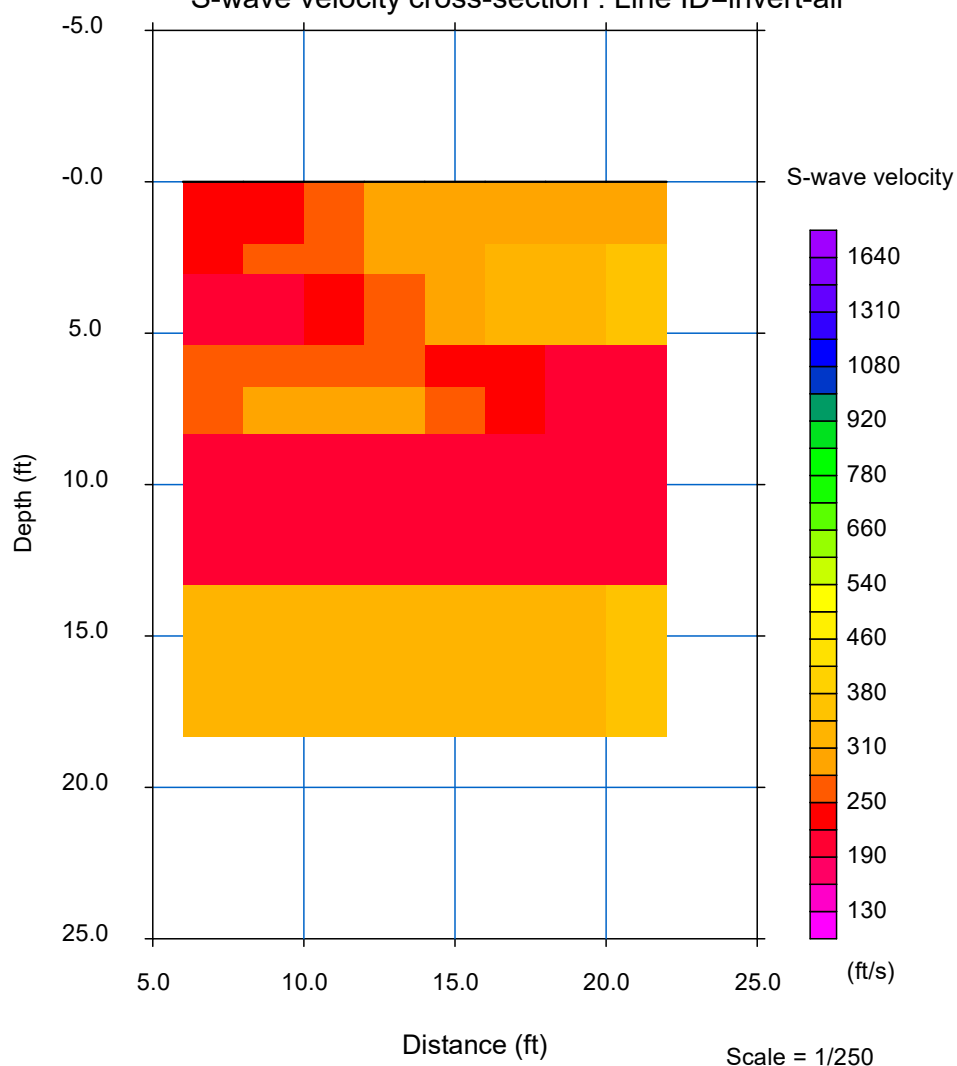
S-wave velocity cross-section : Line ID=invert-all



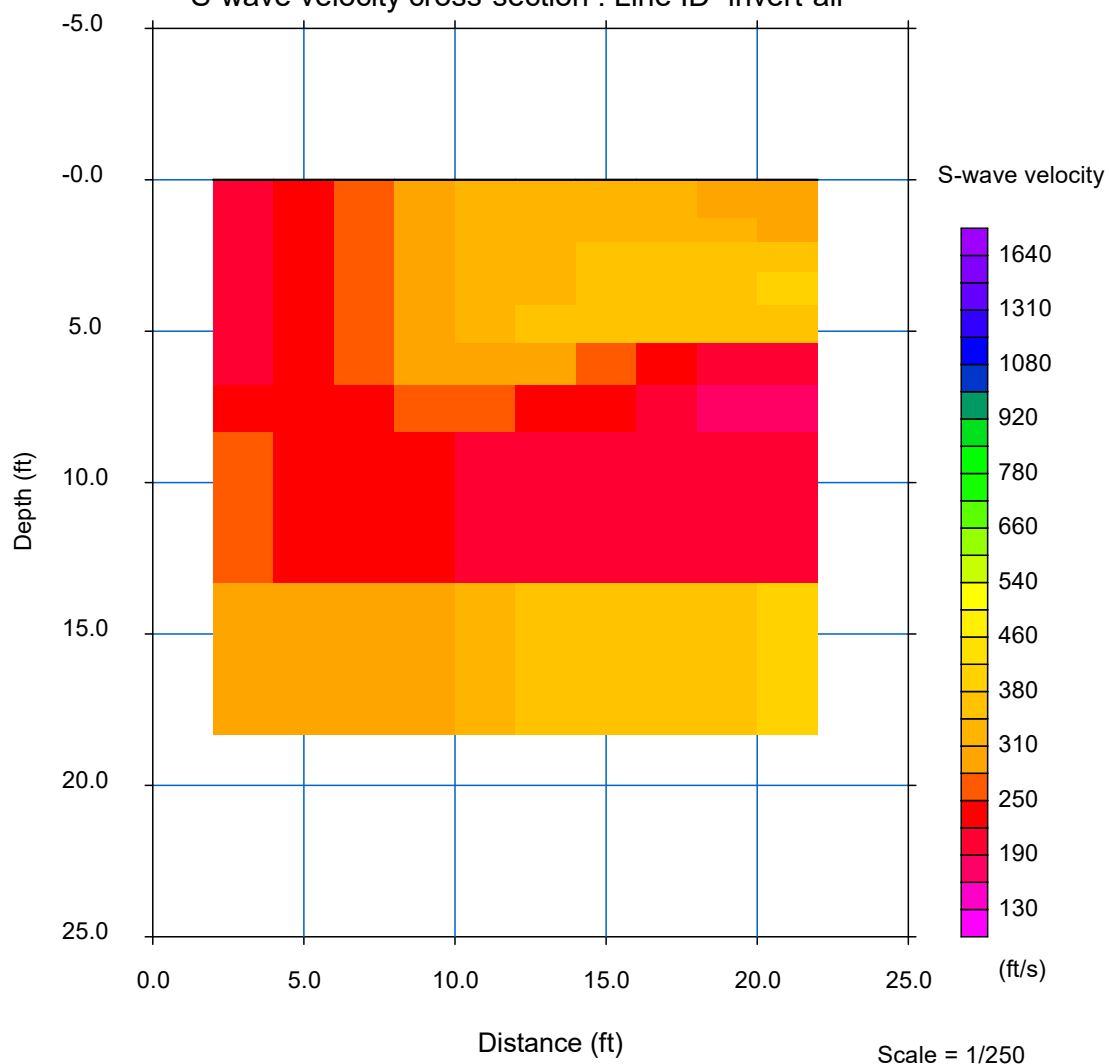
S-wave velocity cross-section : Line ID=invert-all



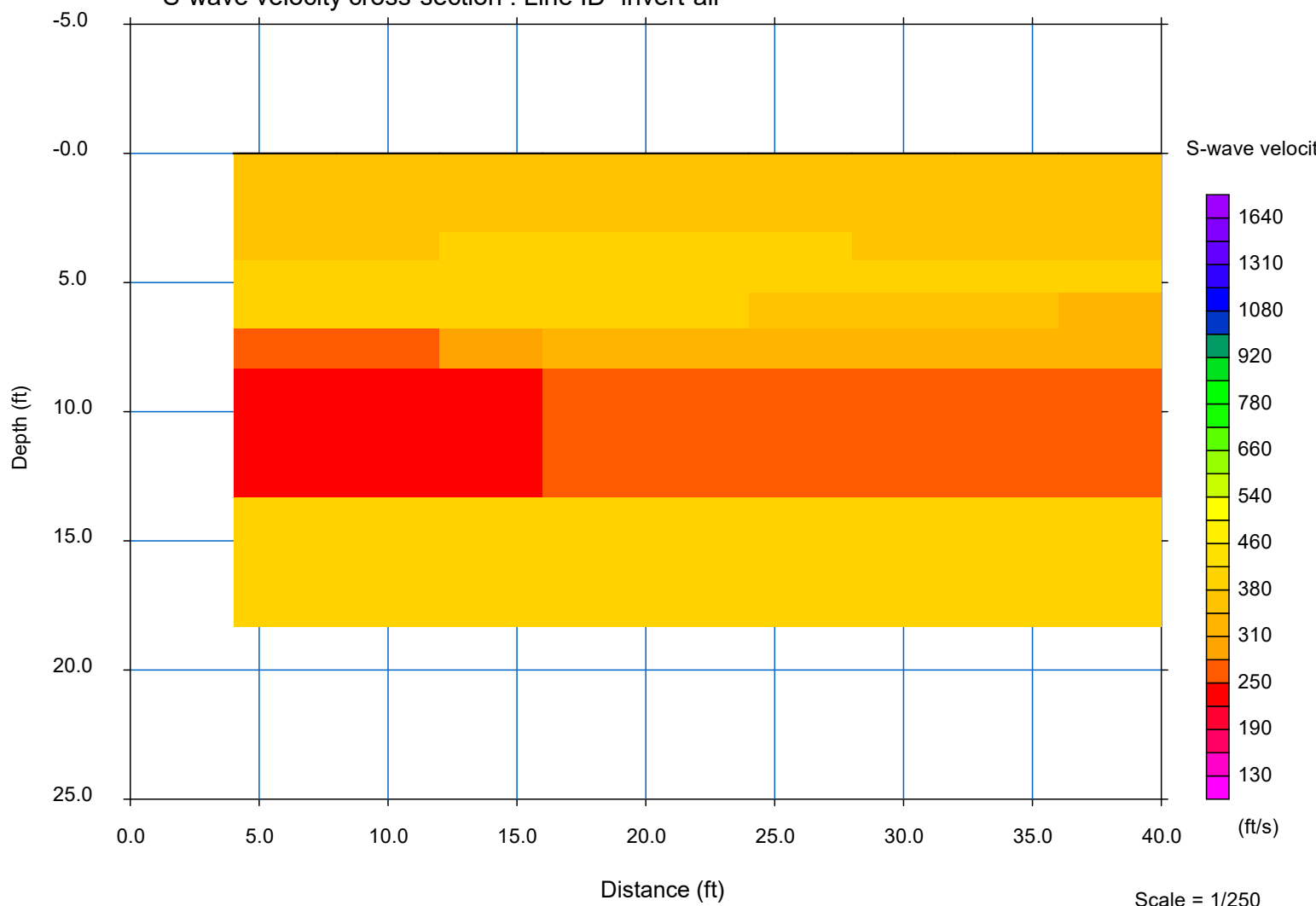
S-wave velocity cross-section : Line ID=invert-all



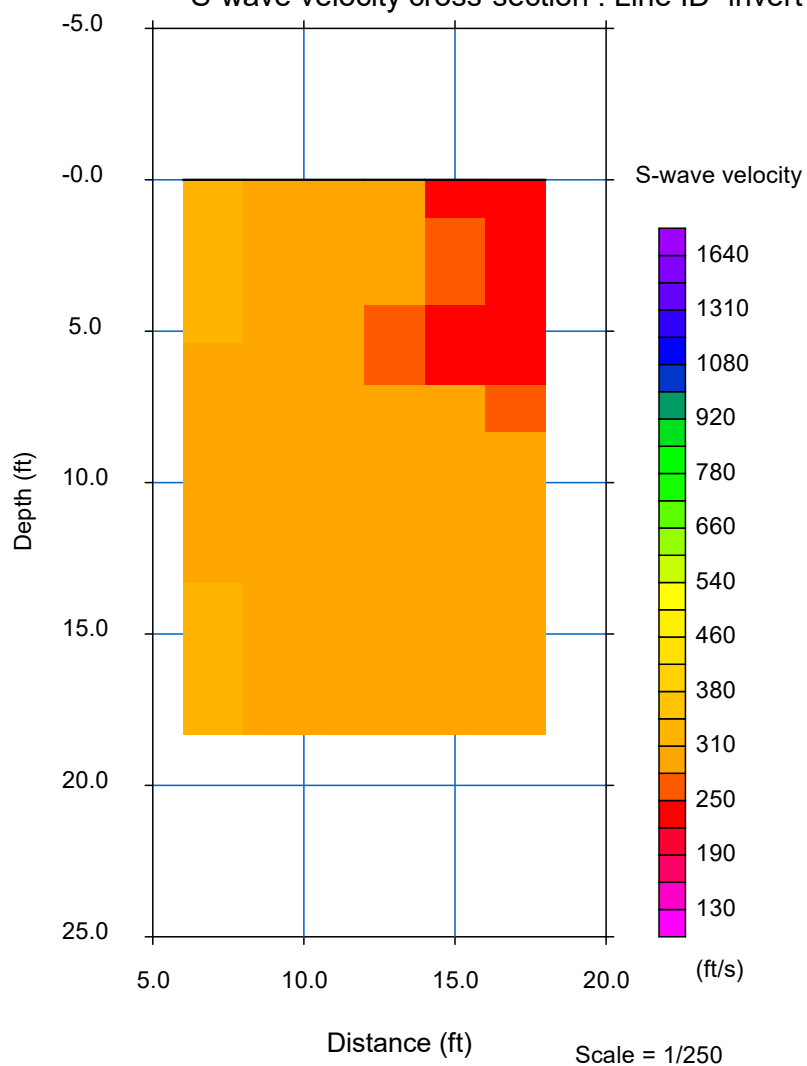
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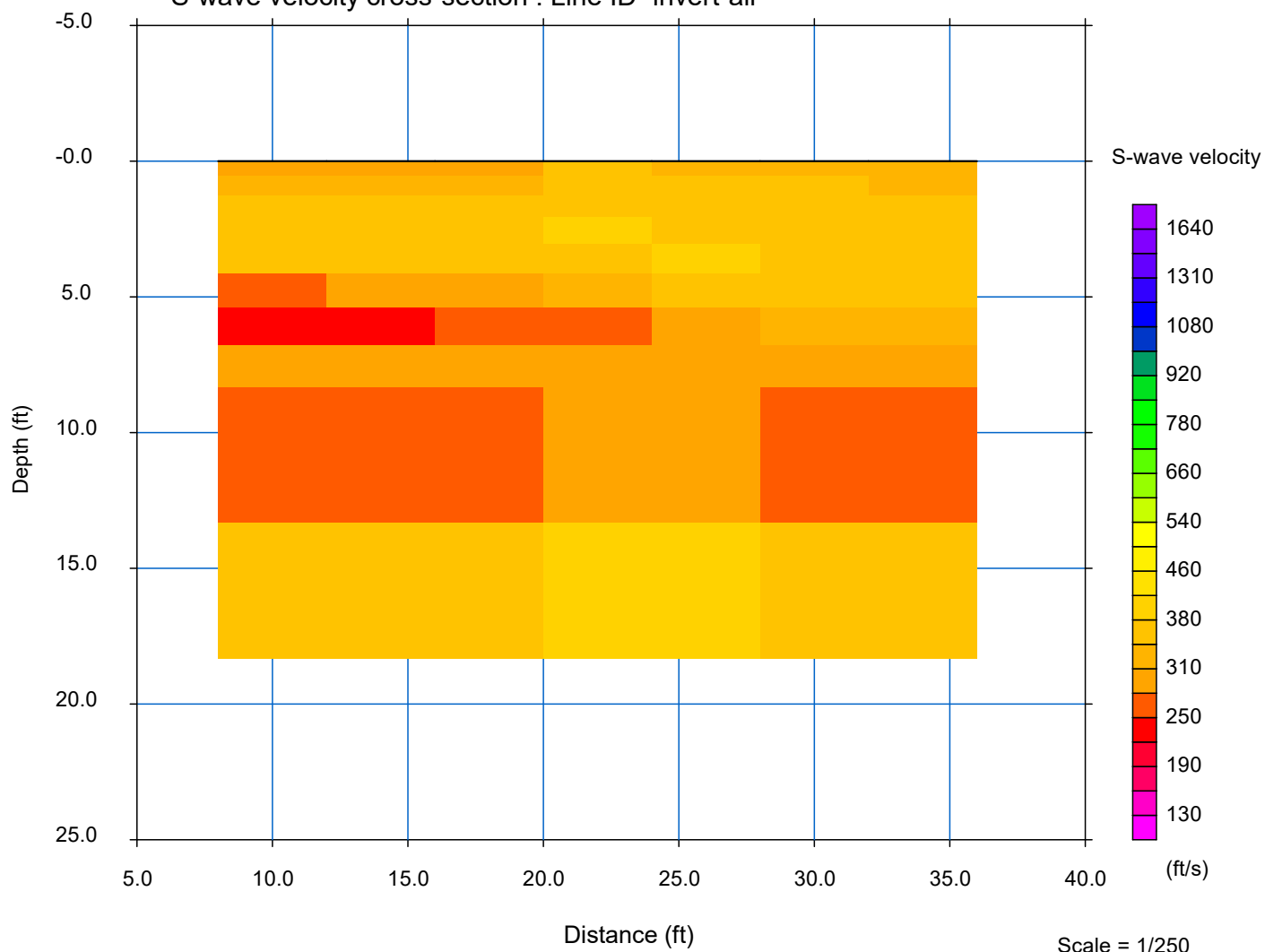
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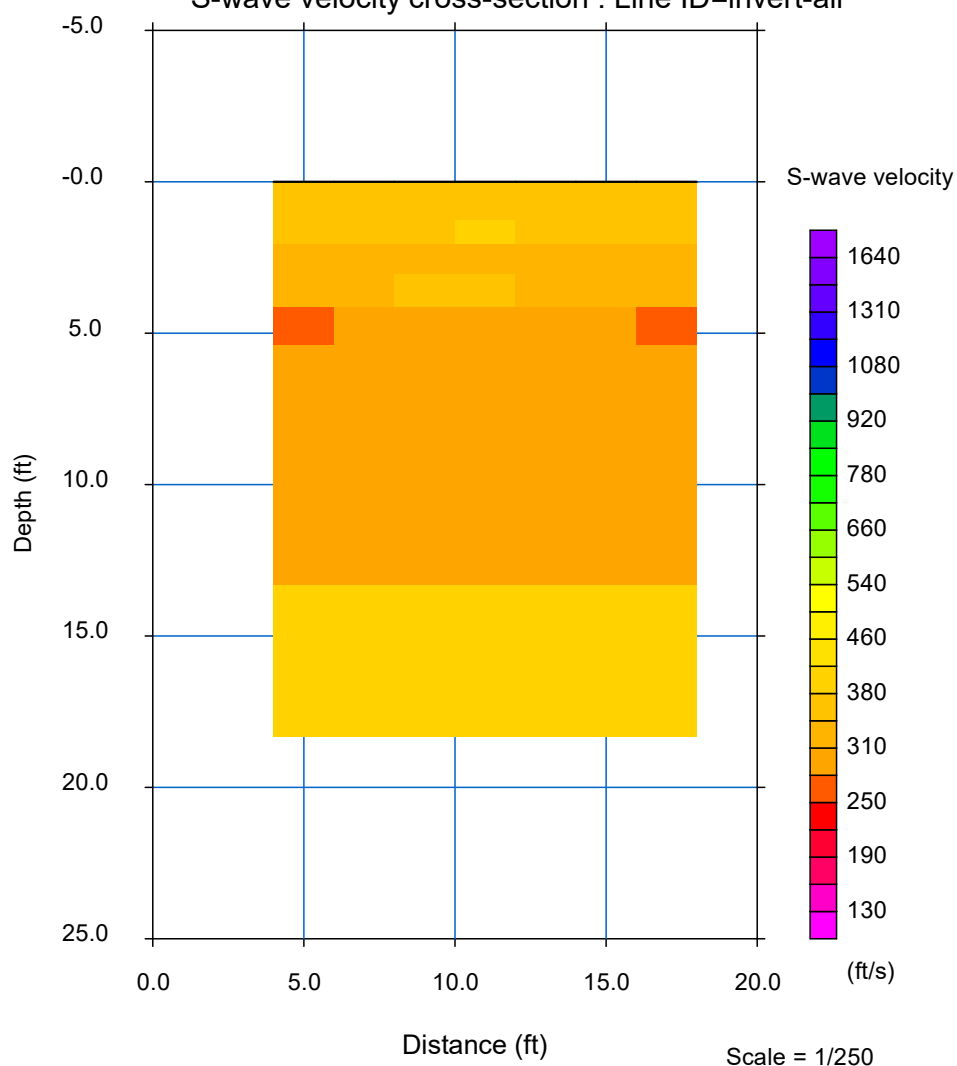
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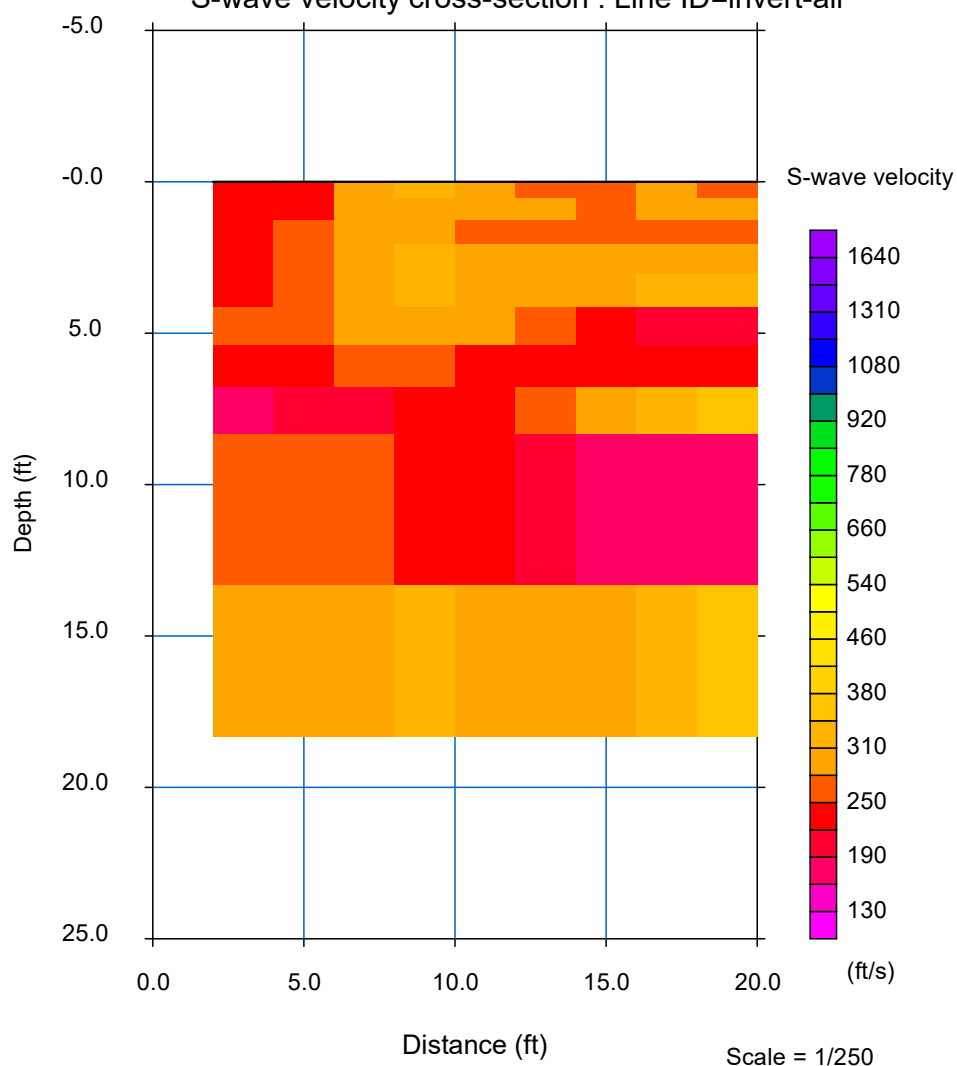
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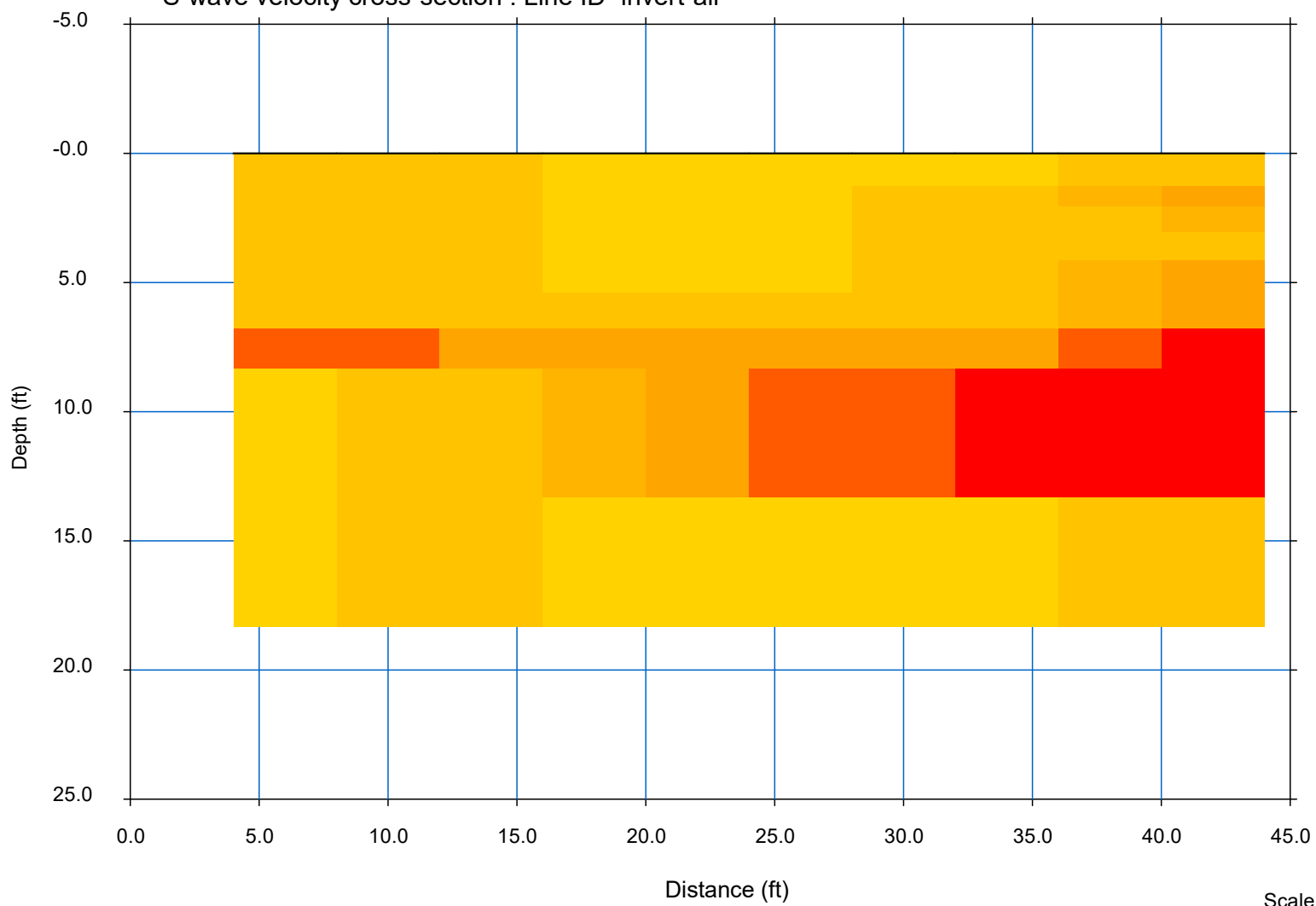
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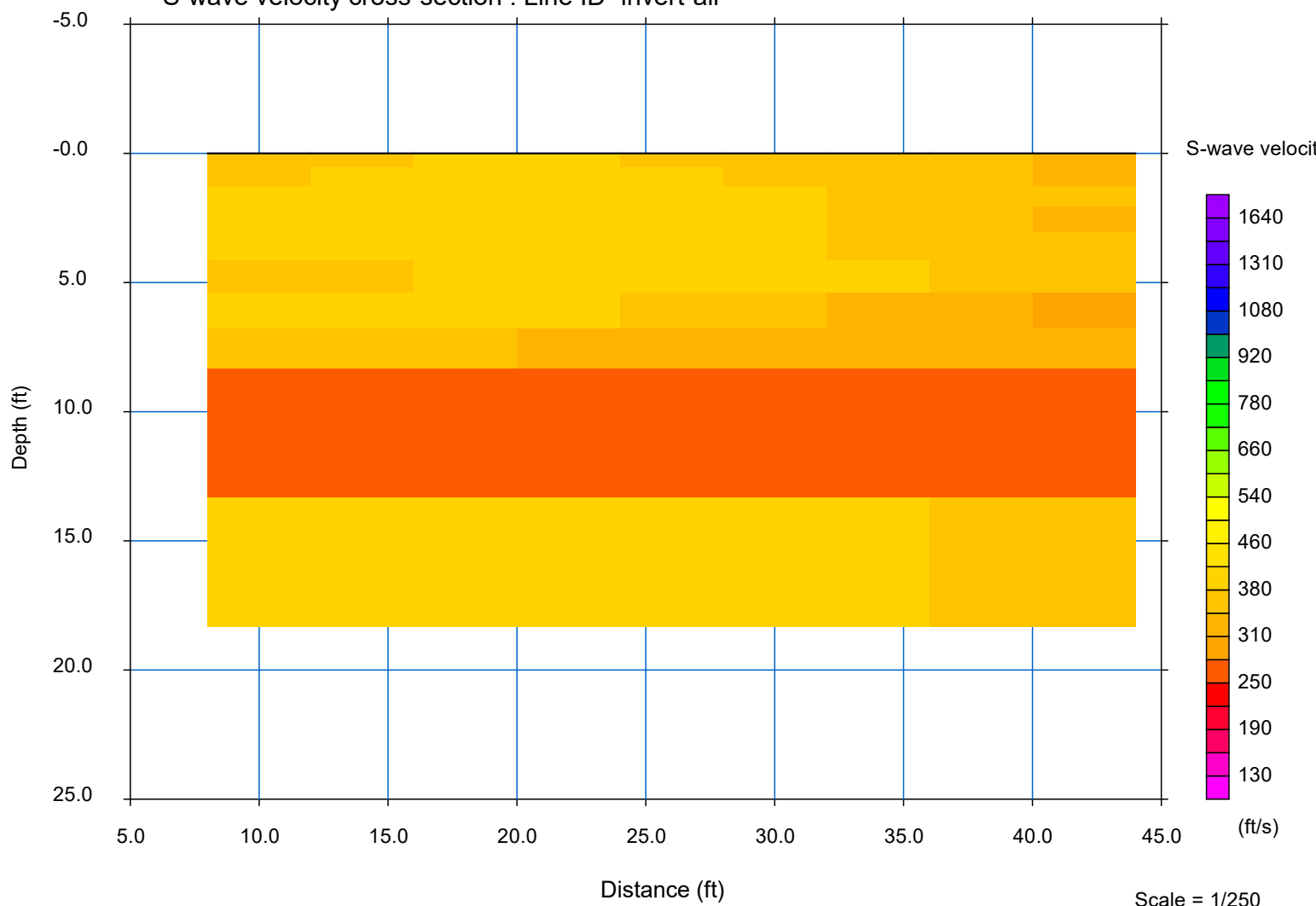
S-wave velocity cross-section : Line ID=invert-all



S-wave velocity cross-section : Line ID=invert-all



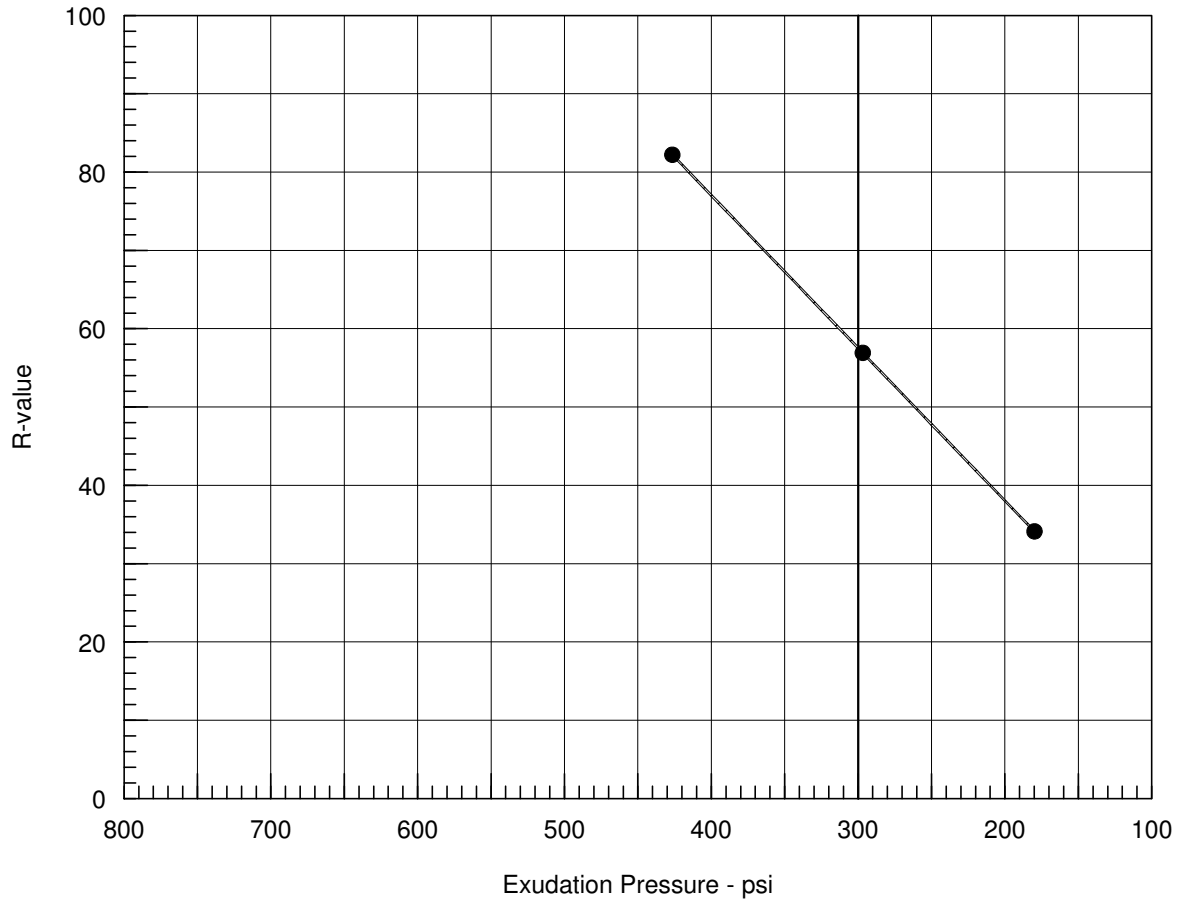
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APPENDIX 5

R Value Results

R-VALUE TEST REPORT

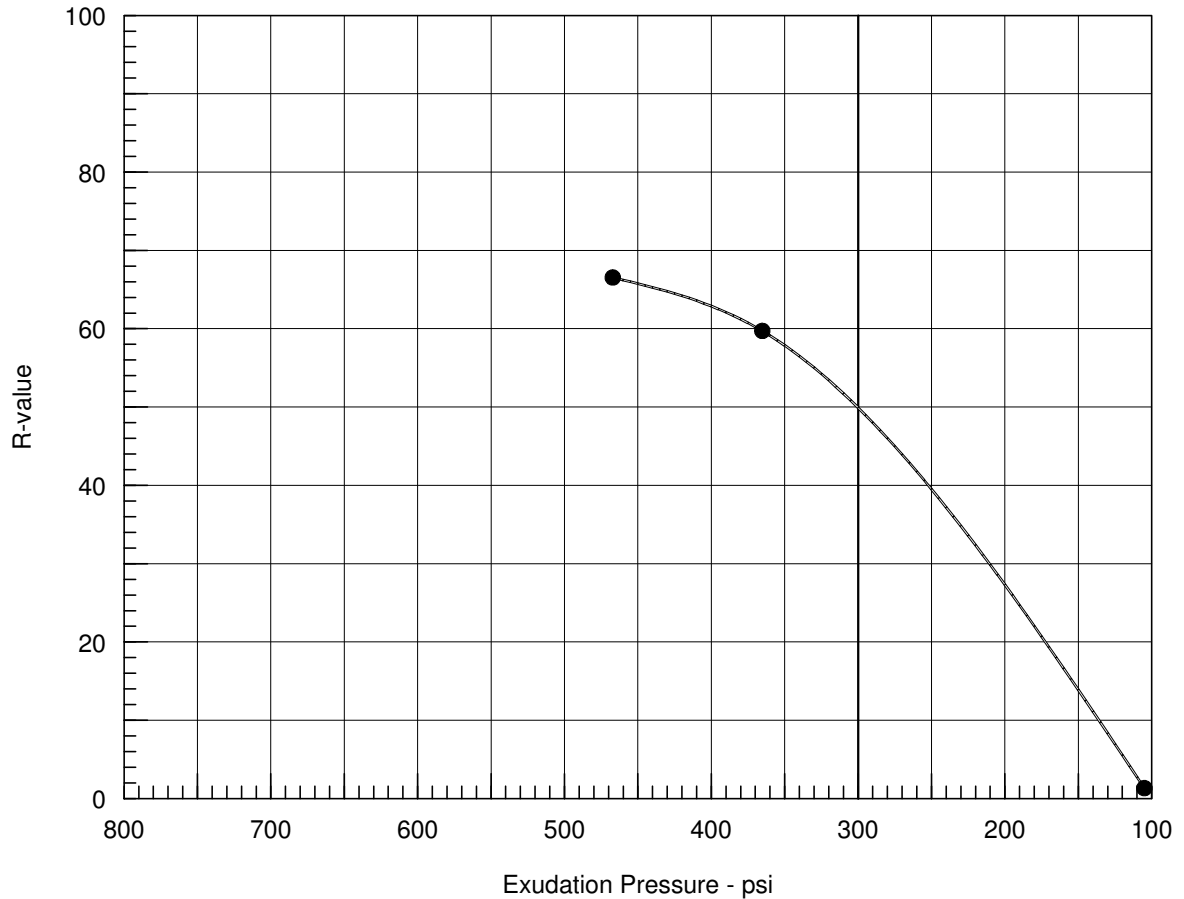


Resistance R-Value and Expansion Pressure - Cal Test 301

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	350	121.1	12.1	0.00	52	2.45	297	57	57
2	350	120.6	11.2	0.00	21	2.55	427	82	82
3	250	118.7	13.1	0.00	87	2.47	180	34	34

Test Results	Material Description
R-value at 300 psi exudation pressure = 58	(7583-14) Light Brown Sandy Clay Sampled by Other on 12/15/2017
Project No.: 4005801 Project: Laco Associates Miscellaneous Lab Testings Location: BH1 / N/A Sample Number: 10S171226-1 Date: 12/26/2017	Tested by: MT Checked by: WY Remarks:
R-VALUE TEST REPORT CONSOLIDATED ENGINEERING LABORATORIES -- SAN RAMON, CA	10S171226-1

R-VALUE TEST REPORT



Resistance R-Value and Expansion Pressure - Cal Test 301

No.	Compact. Pressure psi	Density pcf	Moist. %	Expansion Pressure psi	Horizontal Press. psi @ 160 psi	Sample Height in.	Exud. Pressure psi	R Value	R Value Corr.
1	60	110.2	17.0	0.00	154	2.43	105	1	1
2	350	121.2	12.4	0.00	43	2.35	365	63	60
3	350	122.8	11.3	0.00	36	2.50	467	67	67

Test Results	Material Description
R-value at 300 psi exudation pressure = 50	(7583-14) Dark Brown Sandy Clay w/ Gravel Sampled by Others on 12/15/17
Project No.: 4005801 Project: Laco Associates Miscellaneous Lab Testings Location: TP3+TP4 / LACO Sample Number: 10S171221-2 Date: 12/26/2017	Tested by: MT Checked by: WY Remarks:
R-VALUE TEST REPORT CONSOLIDATED ENGINEERING LABORATORIES -- SAN RAMON, CA	10S171221-2