

The Contract Documents are hereby clarified, corrected, and changed as indicated below:

A. SPECIFICATION CHANGES

Item 1. Notice to Contractors .
Modify first paragraph to read:

“Sealed Proposals will be received at the Office of the City Clerk, 311 Vernon Street, Roseville, California, until 3:00 p.m. on **February 25, 2014**. Late proposals will be rejected. No exceptions.

The Proposals will be publicly opened and read by the Clerk of the City of Roseville at 3:05 p.m. on **February 25, 2014** at the Office of the City Clerk at 311 Vernon Street, Roseville, California for the 2014 Monitoring Well Construction Project.”

Item 2. Mandatory Pre-Bid Meeting.

A second pre-bid meeting will be held on Wednesday, February 5, 2014 at 7:00 AM at Dry Creek Community Park – 9235 Walerga Road, Roseville, CA 95747. Only one pre-bid meeting needs to be attended by the bidder.

B. RESPONSE TO BIDDER QUESTION

Q: What is the engineers cost estimate for the project?

A: The engineers cost estimate for the monitoring well construction project is \$152,800.

Q: Drill rigs or support equipment may break branches of nearby trees during ingress or egress from the well sites. Will the Contractor be responsible for damage?

A: Incidental breakage of tree branches in the pathway to the project site or project site will not result in damage charges or claims against the contractor.

Q: Pavement is present leading to the Lincoln Estates and portions leading to the Roseville Parkway monitoring well sites. Will the Contractor be responsible for damage?

A: Contractor shall take all precaution and care to ensure there are no damages to existing structures or facilities as a result of this project.

Q: Mowing or grubbing of the sites are needed for fire protection. Who will perform the work?

A: All of the monitoring well sites are located in vegetated areas. Concern was expressed about tall grasses and potential fire hazard. Clearing vegetation for access to the sites and the well sites themselves shall be the Contractor’s responsibility and liability to prevent fires due to their actions or equipment. Grading of access roads or drill sites is not allowed.

Q: Does the prime contractor have to have a C-57 license?

A: Per the NOTICE TO CONTRACTORS, Item 3, of the Project Manual. “The City has determined that the Contractor shall possess a valid Class C-57 Water Well Drilling Contractor, Contractor’s license at the time that the bid is submitted and the Contract is awarded. Said license shall be maintained during the Contract period. Failure to possess the specified license shall render the bid nonresponsive and will act as a bar to the award of the Contract to any

Bidder not possessing such a license at the time of award.” The City will **NOT** accept bids from a prime contractor without C-57 license.

Q: Are all of the well permit fees being waived?

A: Per SECTION 01505, SUMMARY OF WORK, Part 3, of the Project Manual. “Well permits for the Scarborough and Walerga well sites shall be obtained from Placer County Environmental Health Department. Well permits for the Roseville Parkway and Lincoln Estates well sites shall be obtained from the City of Roseville Environmental Utilities Engineering Division. Permits from the City will be provided at no cost to the Contractor.” The cost for well permits from Placer County Environmental Health Department will be paid for by the contractor.

Q: Is there a cost to obtain water for drilling purposes and from whom?

A: Per SECTION 01501, TEMPORARY FACILITIES, Part 1, Section 1.02B, “Water shall be obtained from municipal fire hydrants for use by the Contractor. The Contractor shall obtain an approved back flow prevention device from the City for use in connecting to the hydrant. A refundable deposit is required. All water necessary for drilling and construction of the monitoring wells shall be conveyed or transported to the drilling sites by the Contractor”. Water supply for the drilling will be made available at no additional cost to the contractor from the City of Roseville for the Lincoln Park Estates monitoring well, from Placer County Water Agency (PCWA) for the Scarborough and East Roseville Parkway monitoring wells, and from California American Water Company for the Walegra monitoring well. Water will be made available from designated fire hydrants upon agreement with the contractor.

Q: Is site security to be provided by the Contractors?

A: Per SECTION 01501, TEMPORARY FACILITIES, Part 1, Section 1.10, “Contractor shall provide temporary barriers as needed to protect materials, equipment, and miscellaneous items from theft, vandalism, unauthorized access and/or harm.” All locations are subject to public assess and it is the Contractor’s responsibility to provide security.

Q: Geophysical log cannot be performed if alternative drilling methods are used. How shall this be bid?

A: Per SECTION 02523-141, PILOT BOREHOLE DRILLING, Part 1, 1.01.A.2, “The method of drilling shall be by mud rotary drilling in which the uncased wall of the drill hole is held in place at all times with a circulating drilling fluid. The City will allow use of alternative drilling methods for shallow monitoring wells WPCMW-6A, WPCMW-7A, and WPCMW-9A.” Should alternative drilling methods be used where the borehole is supported by drilling equipment (i.e. hollow stem auger, casing, etc.) for these monitoring wells the City will not require Geophysical Surveys or Caliper Surveys of these boreholes and as such Bid Items 4 and 5 units will be reduced accordingly after the work is completed. The Contractors shall provide bids per the units in the Bid Schedule as though all borings will require Geophysical and Caliper Surveys.

Q: Will special centralizers be required for nested wells?

A: Per SECTION 02523-281, MONITORING WELL CASING AND SCREEN, Part 3, Part 3.04, “PVC guides shall be attached to all blank casing sections. Centralizers will be constructed of stainless steel or PVC. The centralizers will be installed at not more than 60 feet apart to centralize and hold the casings in the proper position until the gravel and sanitary seals are in place. At least one centralizer will be set above and below each screened interval. Centralizers shall not be placed onto the screen sections.” Centralizers shall be attached to each well casing when nested monitoring wells are constructed to maintain a 2-inch annular space between each well casing and the borehole wall.

Q: What are the depths of the sanitary seals and would it be ok to mix the grout on site since they are relatively small amounts?

A: Per SECTION 02523-331, BOREHOLE SANITARY SEAL, Part 2, 2.01.A.1, "A sand-cement sealing material shall be used for the annular seal. Sand-Cement "grout": "Sand-cement shall be mixed at a ratio of not more than 188 pounds of sand to one 94-pound sack of Portland cement (2 parts sand to 1 part cement, by weight) about 7 gallons of clean water, where Type I or Type II Portland cement is used. This is equivalent to a "10.3 sack mix."". Part 3, 3.02.D, "After completion of placement of the gravel envelope around the well screens, the Contractor shall place the sanitary seal to depths specified by the Engineer." As noted by the pre-bid attendees, all surface sanitary seals are currently planned to be 20 to 22 feet deep to meet California Well Standards, Monitoring Well Standards, Bulletin 74-90 standards and to minimize the amount of concrete hydration heat on the well casing. The Contractor will be allowed to mix the Sand-Cement "grout" on site as long as it conforms to the 10.3 sack mix and is acceptable to each permitting agency.

Q: Are well logs available for nearby wells?

A: Per SECTION 01505, SUMMARY OF WORK, Part 1, 1.02.A.2, of the Project Manual, "Drilling materials are expected to include sand, silt, clay, and gravel. Geologic formations expected to be encountered include the Riverbank, Laguna, Mehrten, and Lone Formations. Hard drilling through consolidated and cemented sandstone, conglomerate, and lahars may be encountered within the Mehrten for between 50 and 100 foot intervals, based on information from Well Installation Completion Report Western Placer County AB303 Grant and City of Roseville ASR Well Installation Project (MWH 2011)." A copy of the boring logs from this report are attached.

Please include a signed copy of Page 1 of the addendum with your bid/proposal.

END OF ADDENDUM NO. 1

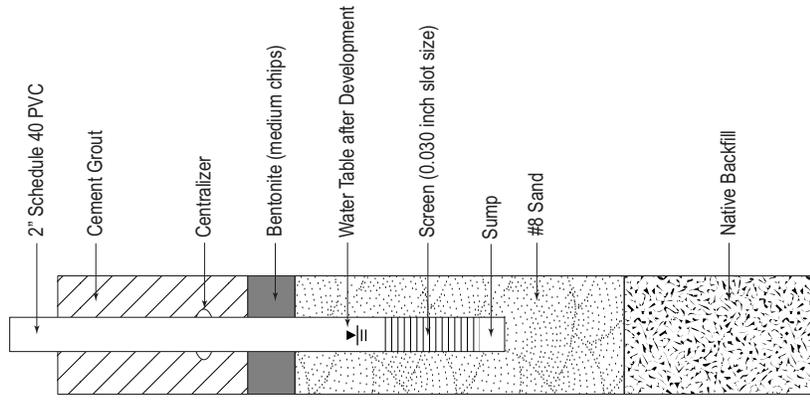
EXPLANATION OF SYMBOLS AND TERMS USED IN THE BORING LOGS

Unified Soil Classification System (USCS) Explanation

CHARACTERISTICS		DESCRIPTION	GROUP SYMBOL	PATTERN
COARSE-GRAINED SOILS ≥50% passes #200 sieve	GRAVELS with little or no fines	Well-graded gravels, gravel-sand mixtures, little or no fines	GW	
	GRAVELS with ≥15% fines	Poorly-graded gravels, gravel-sand mixtures, little or no fines	GP	
SANDS ≥50% coarse fraction passes #4 sieve	SANDS with little or no fines	Silty gravels, poorly-graded gravel-sand-silt mixtures	GM	
	SANDS with ≥15% fines	Clayey gravels, poorly-graded gravel-sand-clay mixtures	GC	N/A
FINE-GRAINED SOILS <50% passes #200 sieve	SANDS with little or no fines	Well-graded sands, gravelly sands, little or no fines	SW	
	SANDS with ≥15% fines	Poorly-graded sands, gravelly sands, little or no fines	SP	
SILTS AND CLAYS liquid limit <50	SANDS with little or no fines	Silty sands, poorly-graded sand-gravel-silt mixtures	SM	
	SANDS with ≥15% fines	Clayey sands, poorly-graded sand-gravel-clay mixtures	SC	
SILTS AND CLAYS liquid limit >50	SANDS with little or no fines	Inorganic silts and very fine sands, silty or clayey fine sands, silts with slight plasticity	ML	
	SANDS with ≥15% fines	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays	CL	
HIGHLY ORGANIC SOILS	SANDS with little or no fines	Organic silts and clays of low plasticity	OL	N/A
	SANDS with ≥15% fines	Inorganic silts, micaceous or diatomaceous fine sand or silt	MH	N/A
HIGHLY ORGANIC SOILS	SANDS with little or no fines	Inorganic clays of high plasticity, fat clays	CH	N/A
	SANDS with ≥15% fines	Organic silts and clays of high-to-medium plasticity	OH	N/A
HIGHLY ORGANIC SOILS		Peat, humus, swamp soils with high organic content	PT	N/A

Notes:
 Coordinate system for northing and easting is NAD83, California State Plane Zone 2 (2007.0), US Survey feet.
 Elevation datum is NAVD88.
 N/A = Not applicable (soil type was not encountered during the current project).

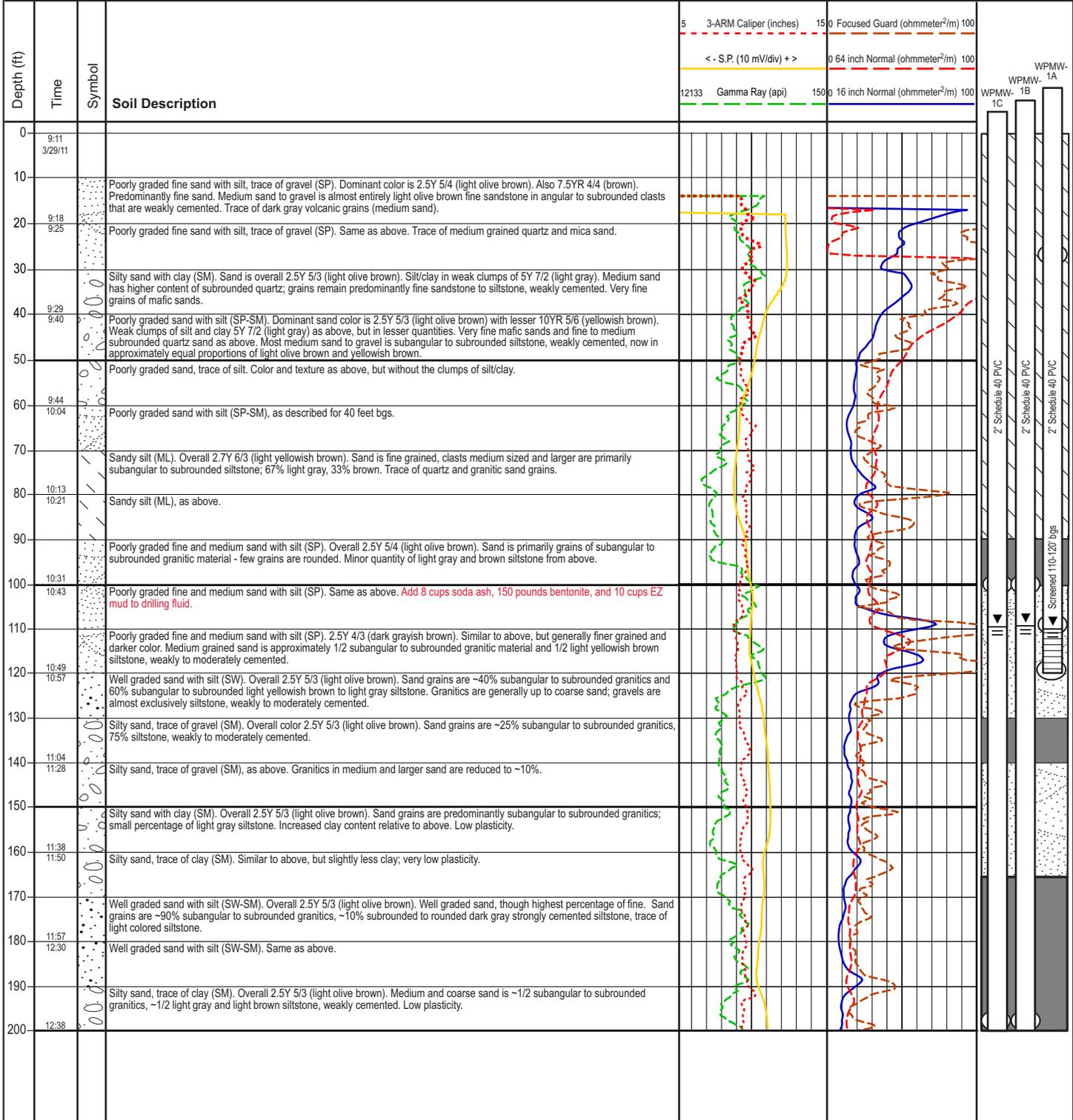
Well Key



WPMW-1

WELL ID: WPMW-1A, WPMW-1B, and WPMW-1C

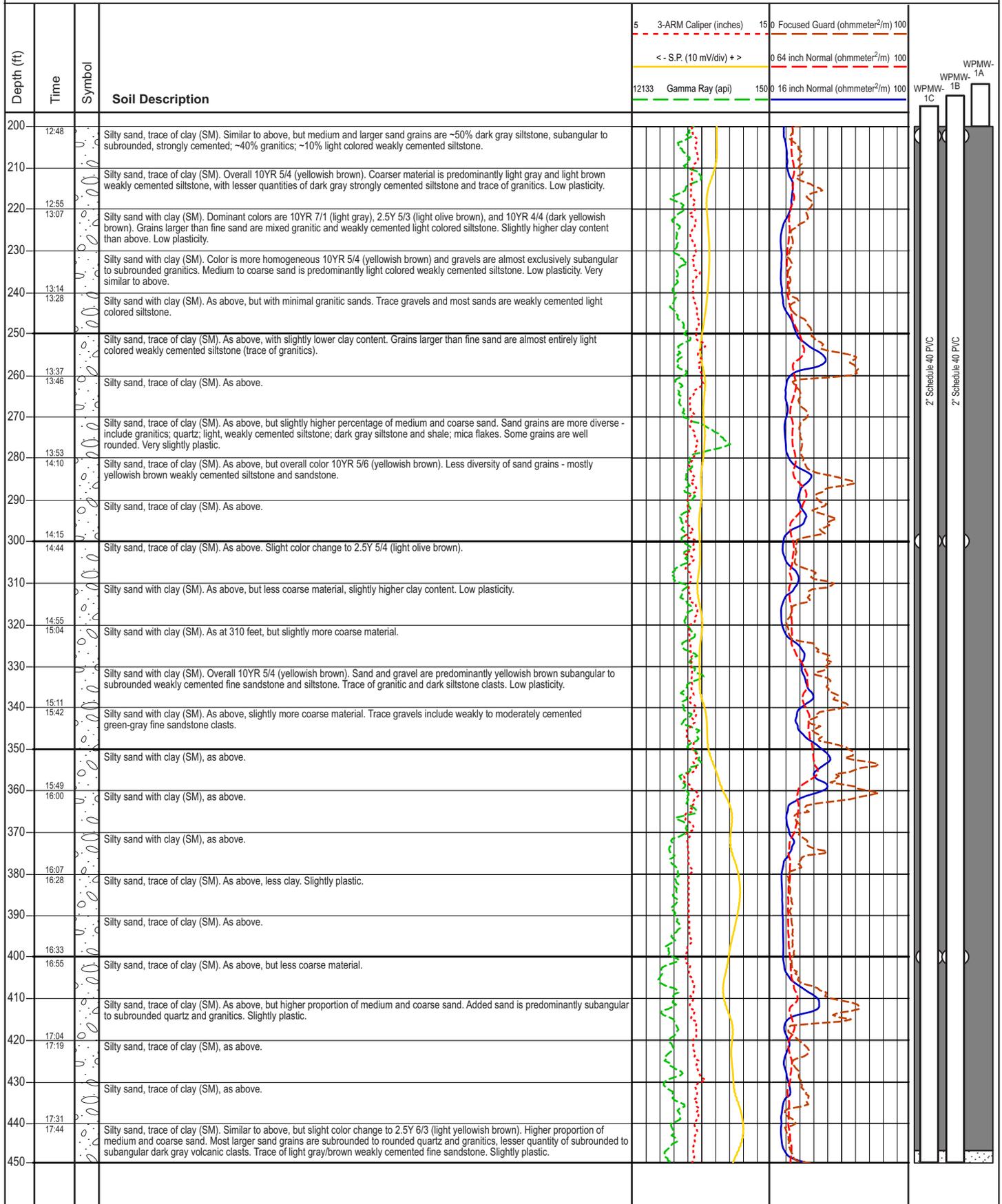
PROJECT INFO PROJECT: WPC AB303 Grant Well Installation LOCATION: Bud Nichols Park, Roseville, CA GEOLOGIST: Joel Bauman, P.G.	DRILLING AND BOREHOLE INFO DRILLER: Jason Moreida (Bradley & Sons Drilling) DRILL METHOD: Mud rotary TOTAL DEPTH: 610' BOREHOLE DIAMETER: 8 ³ / ₄ ", 10 ⁵ / ₈ " and 12 ¹ / ₄ " DRILL DATE: 3/29-3/31/11 COMPLETION DATE : 4/7/2011	WELL CONSTRUCTION INFO TOP OF CASING ELEVATION: A: 107.83, B: 107.31, C: 106.75 GROUND SURFACE ELEVATION: 105.21 NORTHING: 2045988 EASTING: 6740205
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CLIENT INFO PREPARED FOR: City of Roseville PROJECT NO.: 1007466.021801	DRAWING INFO PREPARED BY: Mimi Reyes REVIEWED BY: Joel Bauman, P.G. DATE: 8/23/11	<p style="font-weight: bold; font-size: 1.2em;">MWH</p> <p style="font-size: 0.8em; font-weight: bold;">BUILDING A BETTER WORLD</p>
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WPMW-1

WELL ID: WPMW-1A, WPMW-1B, and WPMW-1C



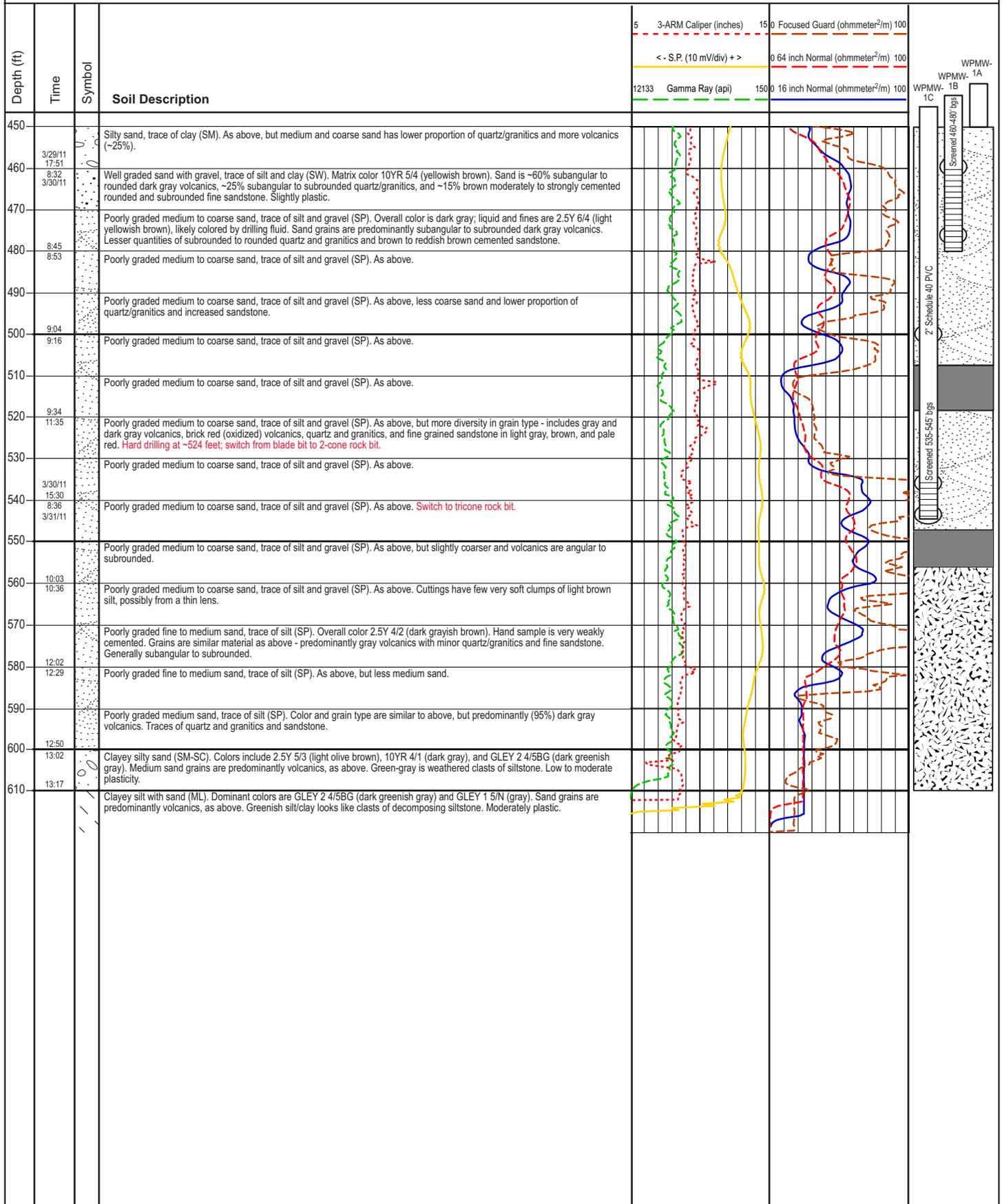
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 PROJECT NO.: 1007466.021801

DRAWING INFO
 PREPARED BY: Mimi Reyes
 REVIEWED BY: Joel Bauman, P.G.
 DATE: 8/23/11



WPMW-1

WELL ID: WPMW-1A, WPMW-1B, and WPMW-1C



CLIENT INFO
 PREPARED FOR: City of Roseville
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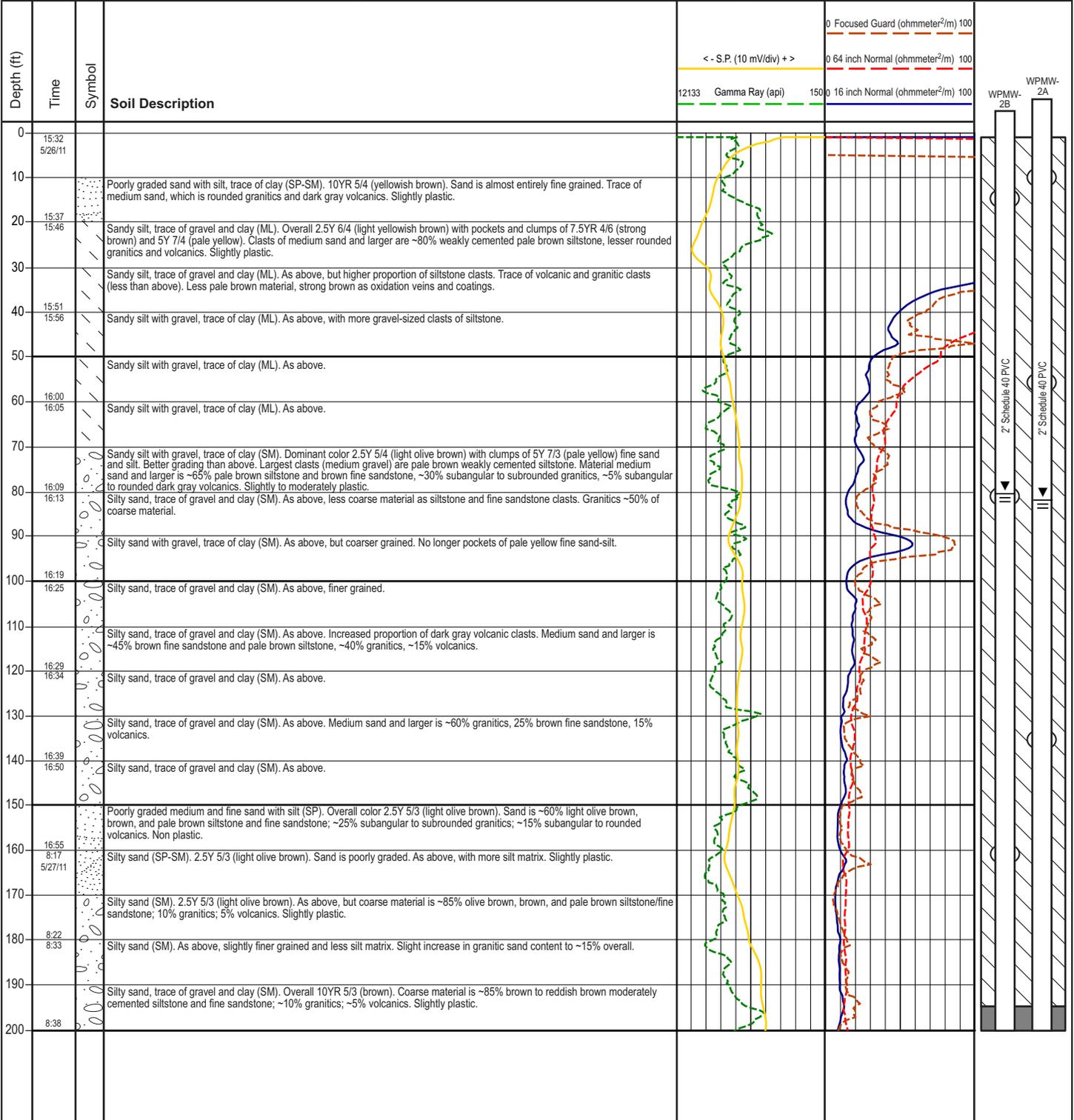
DRAWING INFO
 PREPARED BY: Mimi Reyes
 REVIEWED BY: Joel Bauman, P.G.
 DATE: 8/23/11



WPMW-2

WELL ID: WPMW-2A and WPMW-2B

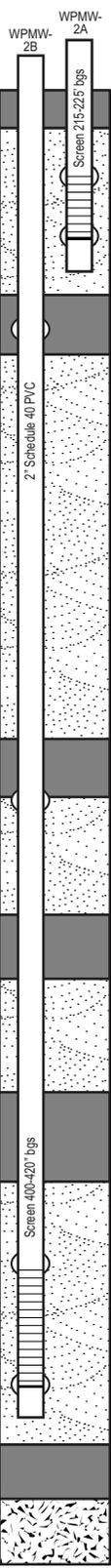
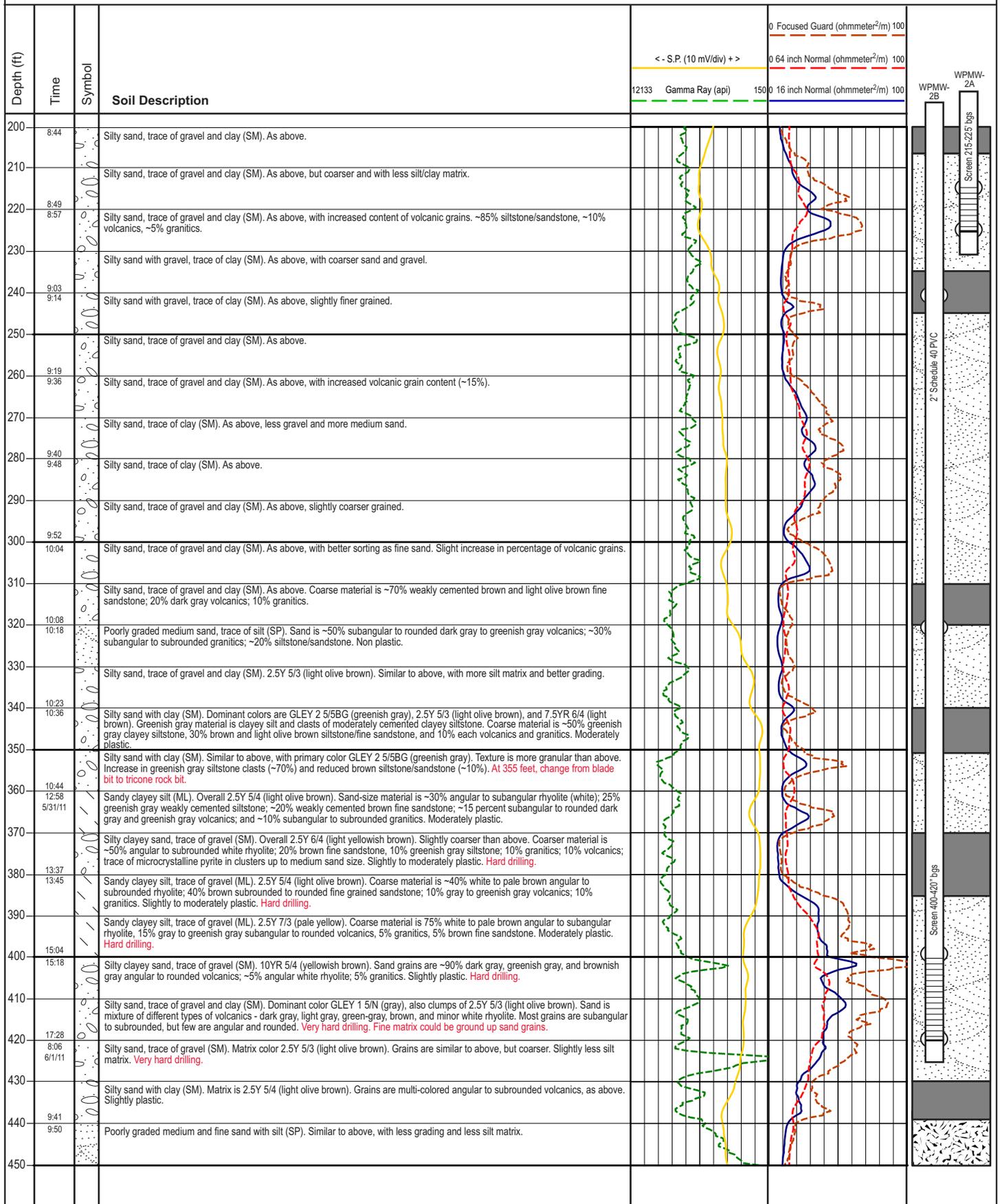
PROJECT INFO PROJECT: WPC AB303 Grant Well Installation LOCATION: Fiddymment Road, Western Placer County, CA GEOLOGIST: Joel Bauman, P.G.	DRILLING AND BOREHOLE INFO DRILLER: Jason Moreida (Bradley & Sons Drilling) DRILL METHOD: Mud rotary TOTAL DEPTH: 477' BOREHOLE DIAMETER: 8 ³ / ₄ ", 10 ⁵ / ₈ " and 12 ¹ / ₄ " DRILL DATE: 5/26-6/1/11 COMPLETION DATE : 6/3/2011	WELL CONSTRUCTION INFO TOP OF CASING ELEVATION: A: 108.20, B: 108.09 GROUND SURFACE ELEVATION: 105.69 NORTHING: 2059109 EASTING: 6747111
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CLIENT INFO PREPARED FOR: City of Roseville PROJECT NO.: 1007466.021801	DRAWING INFO PREPARED BY: Mimi Reyes REVIEWED BY: Joel Bauman, P.G. DATE: 8/23/11	<p>MWH BUILDING A BETTER WORLD</p>
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WPMW-2

WELL ID: WPMW-2A and WPMW-2B



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 DATE: 8/23/11



WPMW-2

WELL ID: WPMW-2A and WPMW-2B

Depth (ft)	Time	Symbol	Soil Description	<div style="text-align: center;"> < - S.P. (10 mV/div) + > 12133 Gamma Ray (api) 1500 </div>	<div style="text-align: center;"> 0 Focused Guard (ohmmeter²/m) 100 0 64 inch Normal (ohmmeter²/m) 100 0 16 inch Normal (ohmmeter²/m) 100 </div>	
450			Poorly graded medium and fine sand, trace of silt (SP). As above, but silt matrix is gray. Overall color GLEY 1 5/N (gray). Matrix silt may be pulverized sand grains.			
460	10:06 10:15		Sandy silty clay (CL). Color ranges from GLEY 1 2/10GY (greenish gray) to GLEY 1 6/10Y (greenish gray). Sand grains are dark gray, greenish gray, and brownish gray subangular to subrounded volcanics. Matrix is very soft, slightly plastic.			
470			Silty clay with sand (CL). As above, with less sand. Grains are subangular to rounded.			
477	10:26		Silty clay with sand (CL). As above. Sample of material taken off the drill bit after tripping out is silty clay, trace of sand (CL). Colors are GLEY 1 4/N (dark gray) and GLEY 1 5/5G (grayish green). Medium plastic, soft.			

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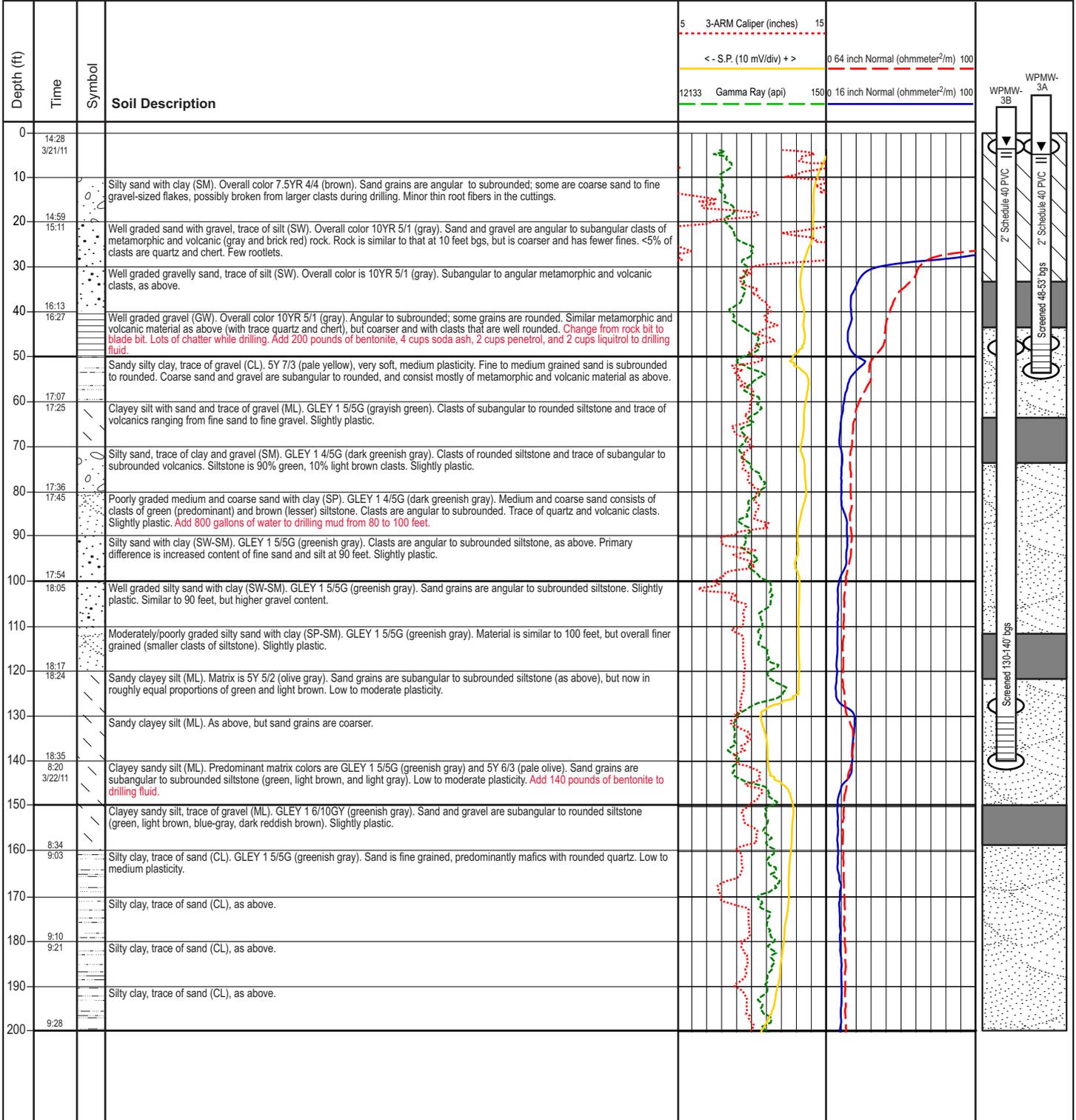
MWH®

BUILDING A BETTER WORLD

WPMW-3

WELL ID: WPMW-3A and WPMW-3B

PROJECT INFO PROJECT: WPC AB303 Grant Well Installation LOCATION: East Joiner Parkway and Fieldstone Drive, Lincoln, CA GEOLOGIST: Joel Bauman, P.G.	DRILLING AND BOREHOLE INFO DRILLER: Jason Moreida (Bradley & Sons Drilling) DRILL METHOD: Mud rotary TOTAL DEPTH: 238' BOREHOLE DIAMETER: 8 ³ / ₄ " and 10 ⁵ / ₈ " DRILL DATE: 3/21-3/22/11 COMPLETION DATE : 3/24/2011	WELL CONSTRUCTION INFO TOP OF CASING ELEVATION: A: 150.95, B: 150.34 GROUND SURFACE ELEVATION: 148.45 NORTHING: 2071300 EASTING: 6764668
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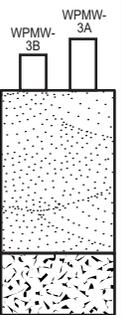


CLIENT INFO PREPARED FOR: City of Roseville PROJECT NO.: 1007466.021801	DRAWING INFO PREPARED BY: Mimi Reyes REVIEWED BY: Joel Bauman, P.G. DATE: 8/23/11	 <p>MWH BUILDING A BETTER WORLD</p>
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WPMW-3

WELL ID: WPMW-3A and WPMW-3B

Depth (ft)	Time	Symbol	Soil Description	3-ARM Caliper (inches)	S.P. (10 mV/div) + >	Normal (ohmmeter ² /m)	Gamma Ray (api)	Normal (ohmmeter ² /m)	
				5	15	0	12133	150	0
						64 inch		16 inch	
						Normal		Normal	
						(ohmmeter ² /m)		(ohmmeter ² /m)	
						100		100	
200	9:36		Silty clay, trace of sand (CL), as above. <i>Rig chatter at 208 feet. Switch to tricone bit, then switch back to blade bit a foot deeper (back into clay).</i>						
210			Silty clay, trace of sand (CL), as above.						
220	9:48 12:00		Silty clay with sand (CL). GLEY 1 5/5G (greenish gray). Sand is clasts of blue-gray, green, and light brown siltstone, subrounded. Low plasticity. Similar to above, but less clay and more silt and coarser sand. <i>Drilling fluid thinned down with 800 gallons of water.</i>						
230			Silty clay with sand (CL), as above.						
240	12:17								



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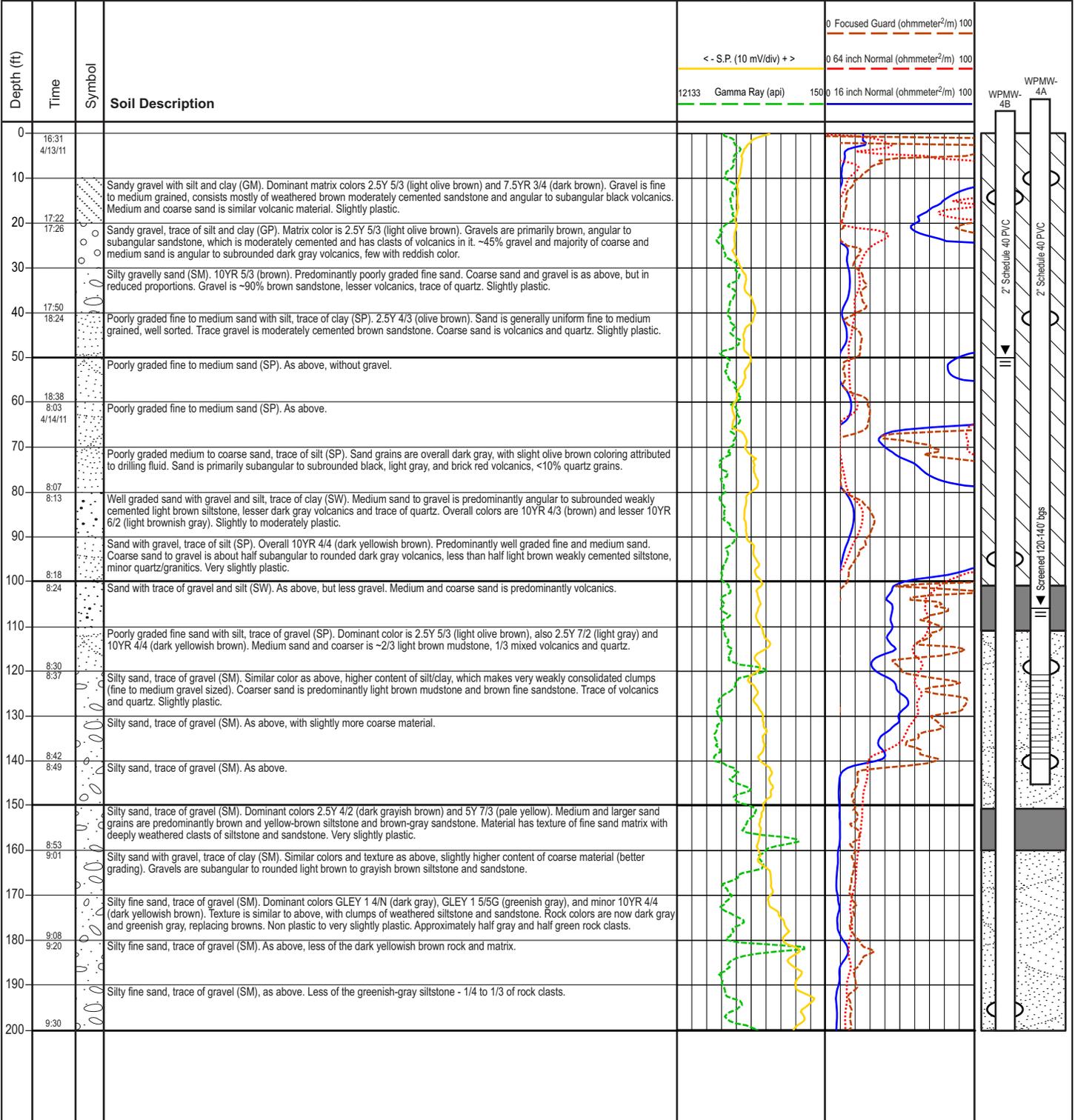
DRAWING INFO
 PREPARED BY: Mimi Reyes
 REVIEWED BY: Joel Bauman, P.G.
 DATE: 8/23/11



WPMW-4

WELL ID: WPMW-4A and WPMW-4B

PROJECT INFO PROJECT: WPC AB303 Grant Well Installation LOCATION: Corner of Roseville Parkway and Gibson Drive, Roseville, CA GEOLOGIST: Joel Bauman, P.G.	DRILLING AND BOREHOLE INFO DRILLER: Jason Moreida (Bradley & Sons Drilling) DRILL METHOD: Mud rotary TOTAL DEPTH: 306' BOREHOLE DIAMETER: 8 ³ / ₄ " and 10 ⁵ / ₈ " DRILL DATE: 4/13-4/14/11 COMPLETION DATE : 4/19/11	WELL CONSTRUCTION INFO TOP OF CASING ELEVATION: A: 181.67, B: 181.52 GROUND SURFACE ELEVATION: 180.02 NORTHING: 2045080 EASTING: 6768276
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WPMW-4

WELL ID: WPMW-4A and WPMW-4B

Depth (ft)	Time	Symbol	Soil Description	< - S.P. (10 mV/div) + >			
				12133	Gamma Ray (api)	1500	
200	9:37		Silty fine sand, trace of gravel (SM), as above. ~1/4 rock clasts are greenish gray.				
210			Silty fine sand, trace of gravel (SM). As above, slightly finer grained overall.				
220	9:43 10:50		Silty fine sand, trace of gravel (SM). As above. Change from blade bit to tricone rock bit.				
230			Silty fine sand, trace of gravel (SM). Colors are GLEY 1 5/5G (greenish gray), GLEY 2 8/5B (light bluish gray), minor 5Y 8/3 (pale yellow). Trace of orange iron oxide staining in veinlets. Medium sand to gravel is subangular to subrounded siltstone and sandstone, predominantly gray and greenish gray. Trace of yellow sandstone clasts, trace of quartz.				
240	12:15 12:46		Silty fine sand, trace of gravel (SM). As above.				
250			Silty fine sand, trace of gravel (SM). As above, but medium sand to gravel is more heterogeneous ~1/3 quartz, 15% black volcanics, rest is green siltstone.				
260	14:16 14:18		Silty sand with gravel, trace of clay (SM). As above, but better grading. Slightly plastic.				
270			Silty clay with sand, trace of gravel (CL). Overall GLEY 1 5/10Y (greenish gray) with pockets of GLEY 1 4/5G (grayish green) weathered siltstone. Medium sand to gravel is subangular to subrounded green and gray sandstone, dark gray volcanics, and quartz. Slightly plastic.				
280	14:55 15:00		Silty clay with sand, trace of gravel (CL). As above, but slightly less coarse material.				
290			Silty clay, trace of sand (CL). As above, but with less coarse material (no gravels).				
300	4/14/11 15:10		Silty clay, trace of sand (CL). As above, but no gravel or coarse sand. Total depth 297 feet.				
306	4/18/11		Advanced to 306 feet bgs during reaming on 4/18/11 to accommodate well design.				

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