

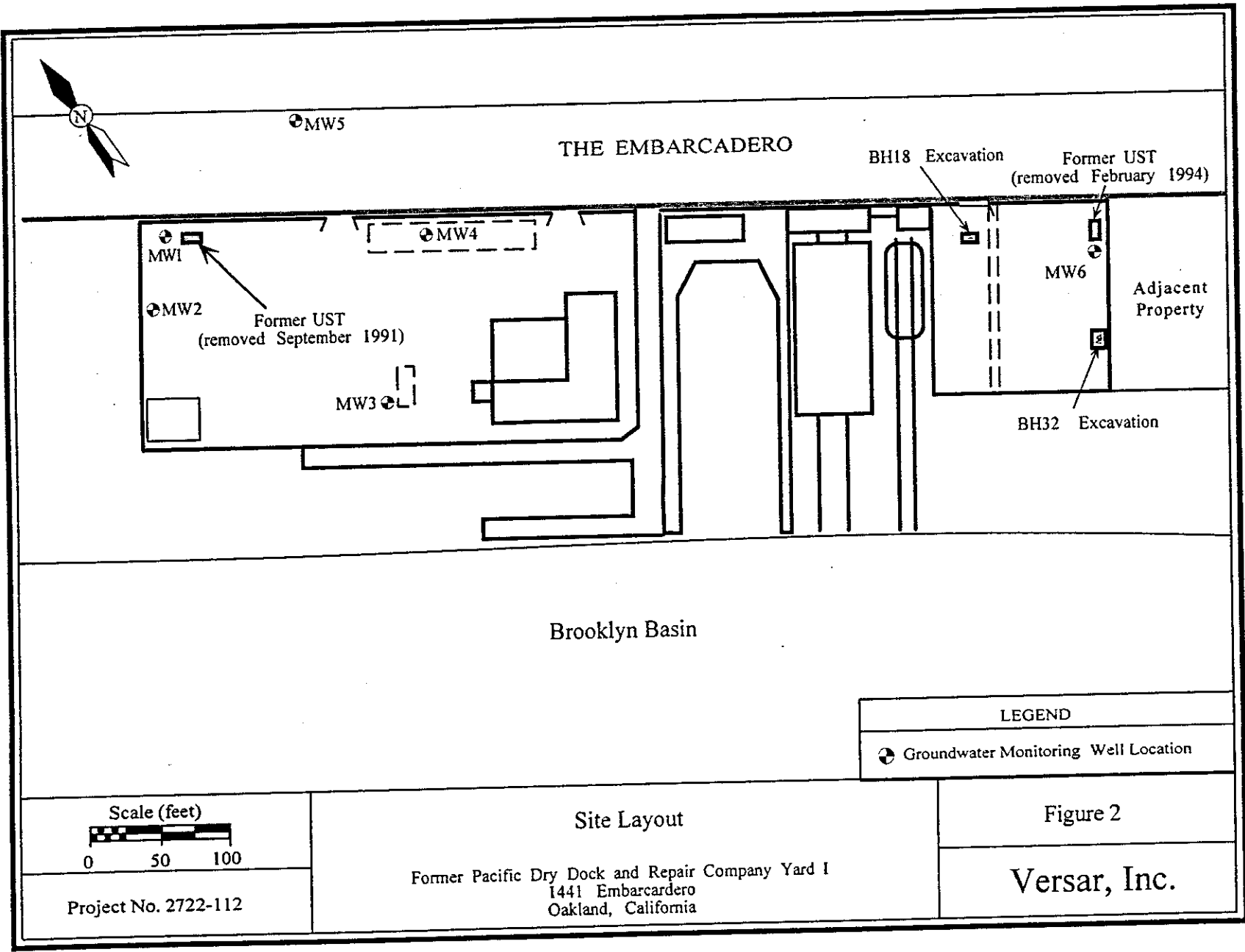
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STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

Versar Inc.		DRILLING LOG		PROJECT NO. _____	
Supervising Geologist: L. Kleinsche			Site Name: Crowley		
Log By: P. Watsack			Boring No: MW-1		
Date: 6/23/93			Boring Diameter: 8"		
Drilling Contractor: Turner			Boring Depth: 14.0'		
Contractor Lic. No.			Boring Location: NE site inside fence		
Rig Type: mobile B-34					
Driller: John / A1					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/4' Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES	COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING	
1							0-6" gravel road base, asphalt		
2	X	20					2.0 - 5.0 gravelly silt. Silt of low plasticity		
3	A	24					Gravel: angular, up to 0.5 inch, orange mottling, lt grey to lt green, Black staining at 2.0-5.0, looks very oily w/ evidence of black liquid / sludge.		
4	A	18							
5	X	14					5.0 - 6.5 silt/sand gravel. Gravel: angular, up to 1/5 inch. Silt: < 20%. Sand well graded, subangular. low plasticity, black staining as above.		
6	B	13					6.5 - 7.0 interface. gravel with clay		
7	X	5					7.0 - 10.0 gravelly clay. clay: high plasticity, sticky. Gravel: subangular up to 0.5 inch, < 20%. Black staining to dark grey to lt grey w/ depth.		
8							Organic odor.		
9									
10									
11	X	2					10.0-15.5 clay, high plasticity, lt grey, moist		
	C	1							



Project No. 2722-112

Site Layout
 Former Pacific Dry Dock and Repair Company Yard I
 1441 Embarcadero
 Oakland, California

LEGEND
 ⊕ Groundwater Monitoring Well Location

Figure 2
 Versar, Inc.

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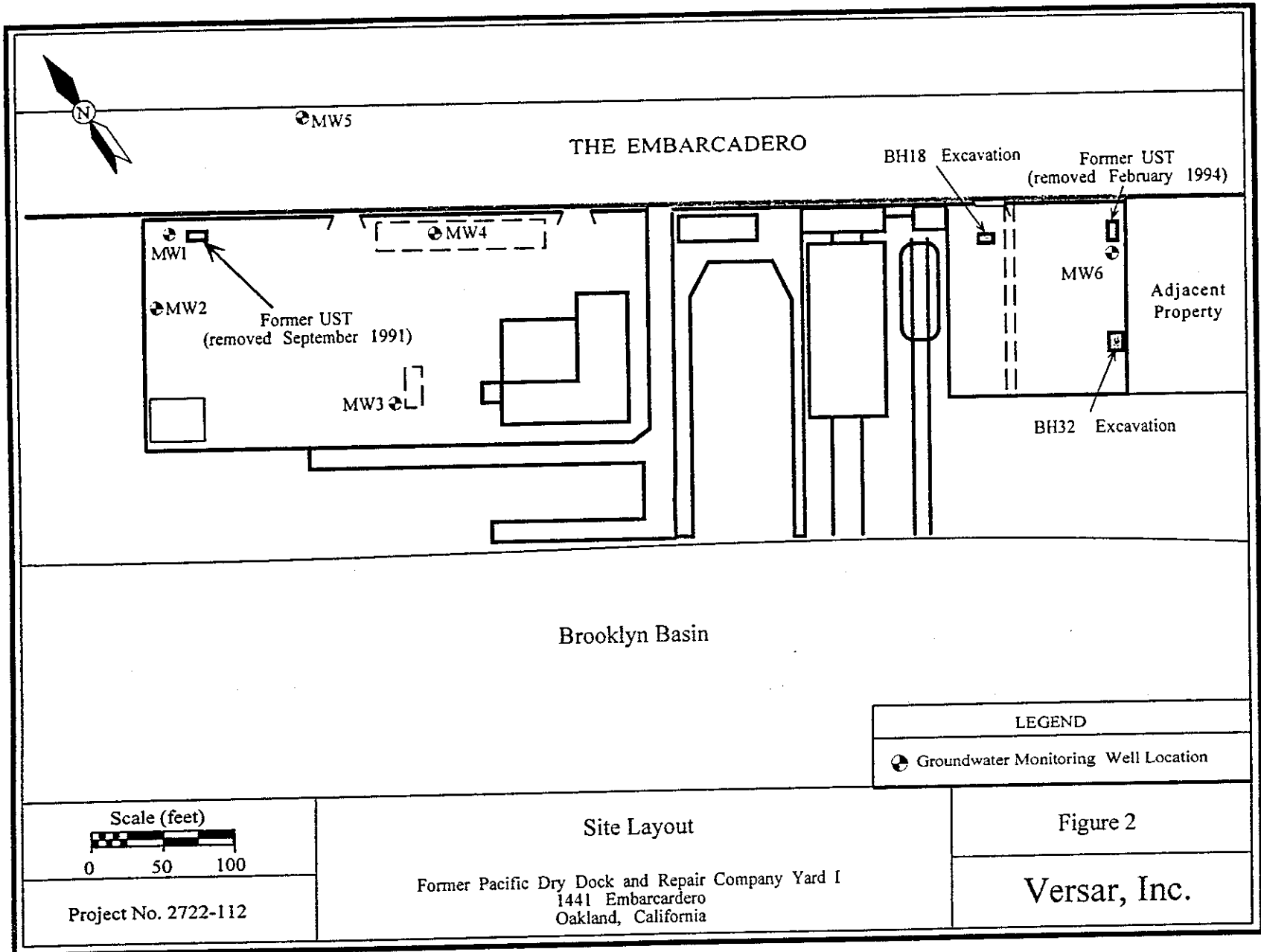
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Versar Inc.		DRILLING LOG		PROJECT NO. _____	
Supervising Geologist: L. Kleinschke			Site Name: Cloutey		
Log By: P. Walsack			Boring No: MW - 12		
Date: 6/23/93			Boring Diameter: 2"		
Drilling Contractor: Turner			Boring Depth: 14.0'		
Contractor Lic. No. 1			Boring Location: N side of property west of mw-1		
Rig Type: Mobile B-34			(OVA ambient - 3 ppm)		
Driller: John / AI					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/1/2 Water Table if	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES	COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING	
1							0-6" asphalt road base		
2	X						2.0-4.5 silty, gravelly sand. Sand: fine, angular. Gravel: angular, up to 2.5 inch. Silt: 30%. Very well sorted soil, equal portions of each silt, gravel, and sand. No recovery. No sample. Too many gravels. Second Try = Sample @ 7.5'		3-5
3	X								
4									
5							4.5-5.0 silty sand. Sand: fine, angular silt > 30%. Black staining w/ odor. No sample collected. Began sampling @ 5.0' bgs.		
6	B1	2					5.0-6.5 SAA, no staining		
7	X	2					6.5-7.0 interface of sand w/ clay 7.0-15.0 clay, lt green, high plasticity, moist. Traces of silt.		
8									
9									
10									
11	X	2							
	C2								

APPENDIX C



Project No. 2722-112

Site Layout
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 Oakland, California

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☉ Groundwater Monitoring Well Location

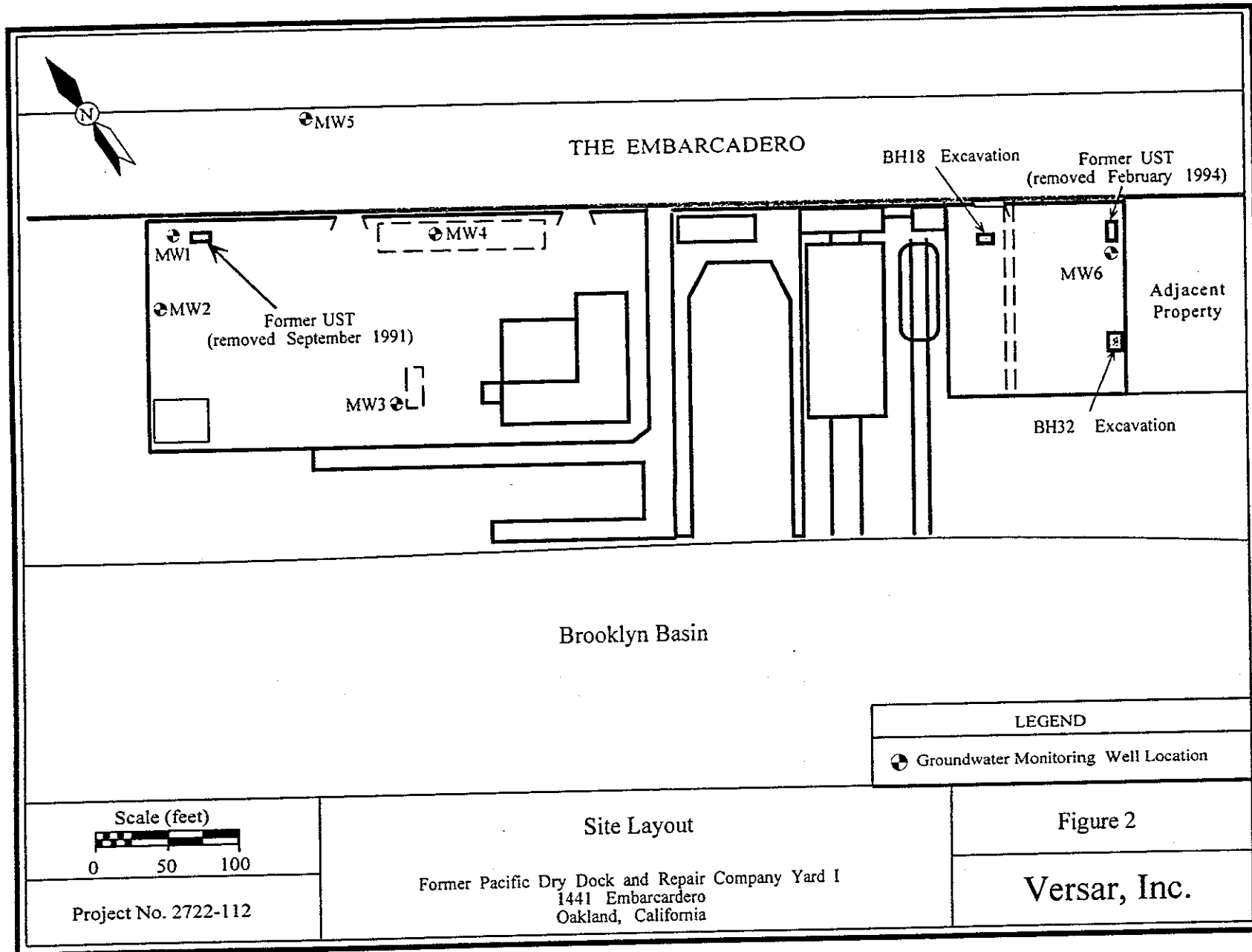
Figure 2

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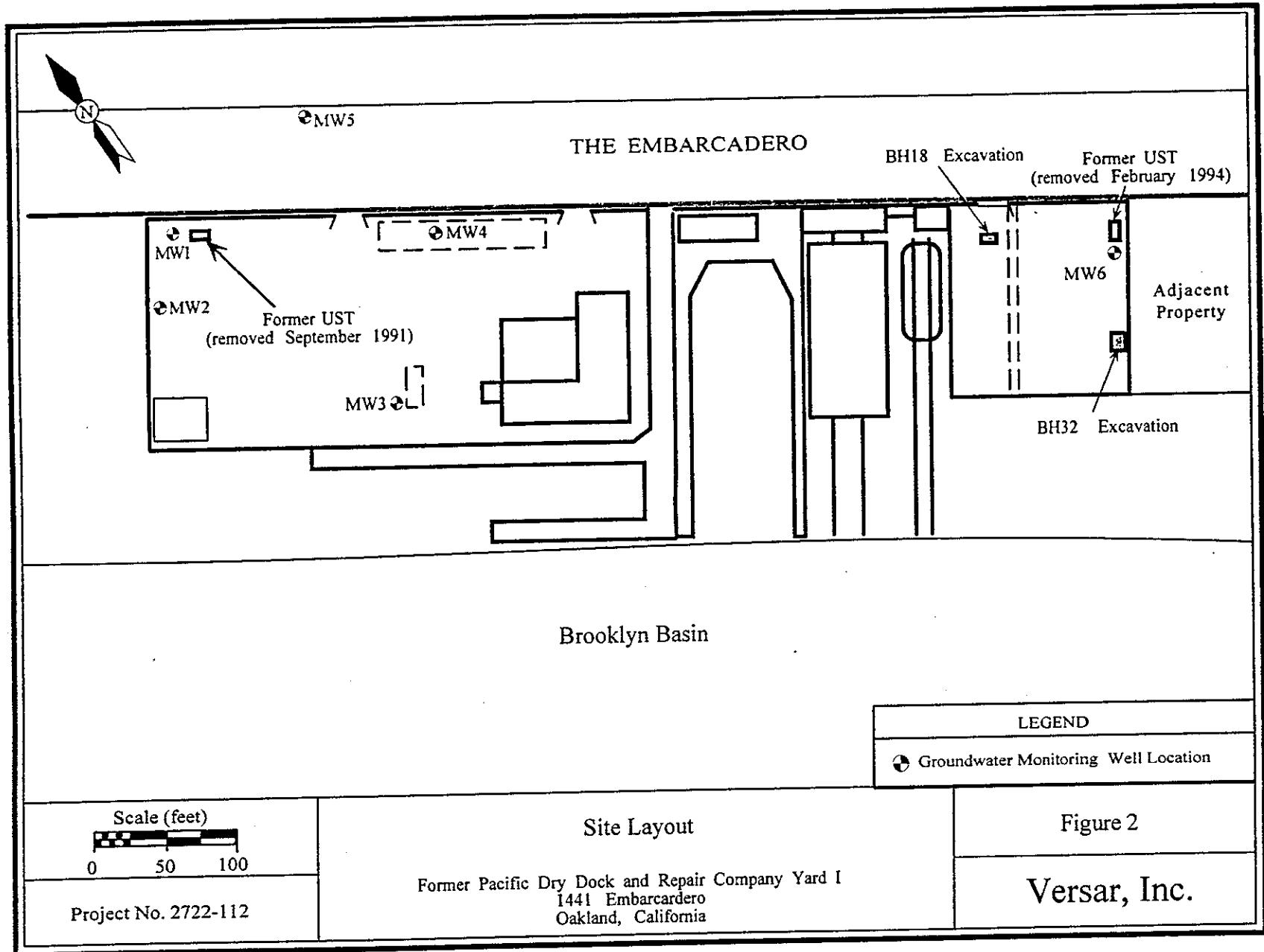


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Versar Inc.		DRILLING LOG			PROJECT NO. _____				
Supervising Geologist: <i>L. Kleinach</i>				Site Name: <i>Crowley</i>					
Log By: <i>P. Watsch</i>				Boring No: <i>mw-4</i>					
Date: <i>6/23/93</i>				Boring Diameter: <i>8"</i>					
Drilling Contractor: <i>Turner</i>				Boring Depth: <i>15.0'</i>					
Contractor Lic. No.				Boring Location: <i>middle of eastern portion of site by fence</i>					
Rig Type: <i>Mobile B-34</i>				Driller: <i>John / A1</i>					
				<i>(OVA ambient 3-11 ppm)</i>					
Depth (ft)	Advanced/Recovered	Blow Counts	First Water/1st Water Table if	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
1							0-1.0' gravel, concrete, fill material		
2		A 16					1.0-4.0 silty gravel. Gravel, angular, up to 2.0 inch. Silt: low plasticity. Orange mottling.		3
3		A 8							3
		X 9							
4									
5							4.0-8.5 gravelly clay. Clay: med plasticity Gravel: angular, up to 1.5 inch. Also		
		X 3					White shells up to 0.5 inch >50% shells. Lt green in color (clay)		
6		B 4					Odor at 6.0'. Install Trap for sampling		25
		X 6							
7									
8									
9							8.5-11.0 clay high plasticity, occasional pebble and/or shell.		
10									
		X 3							
11		C 3							



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⊕ Groundwater Monitoring Well Location

Figure 2

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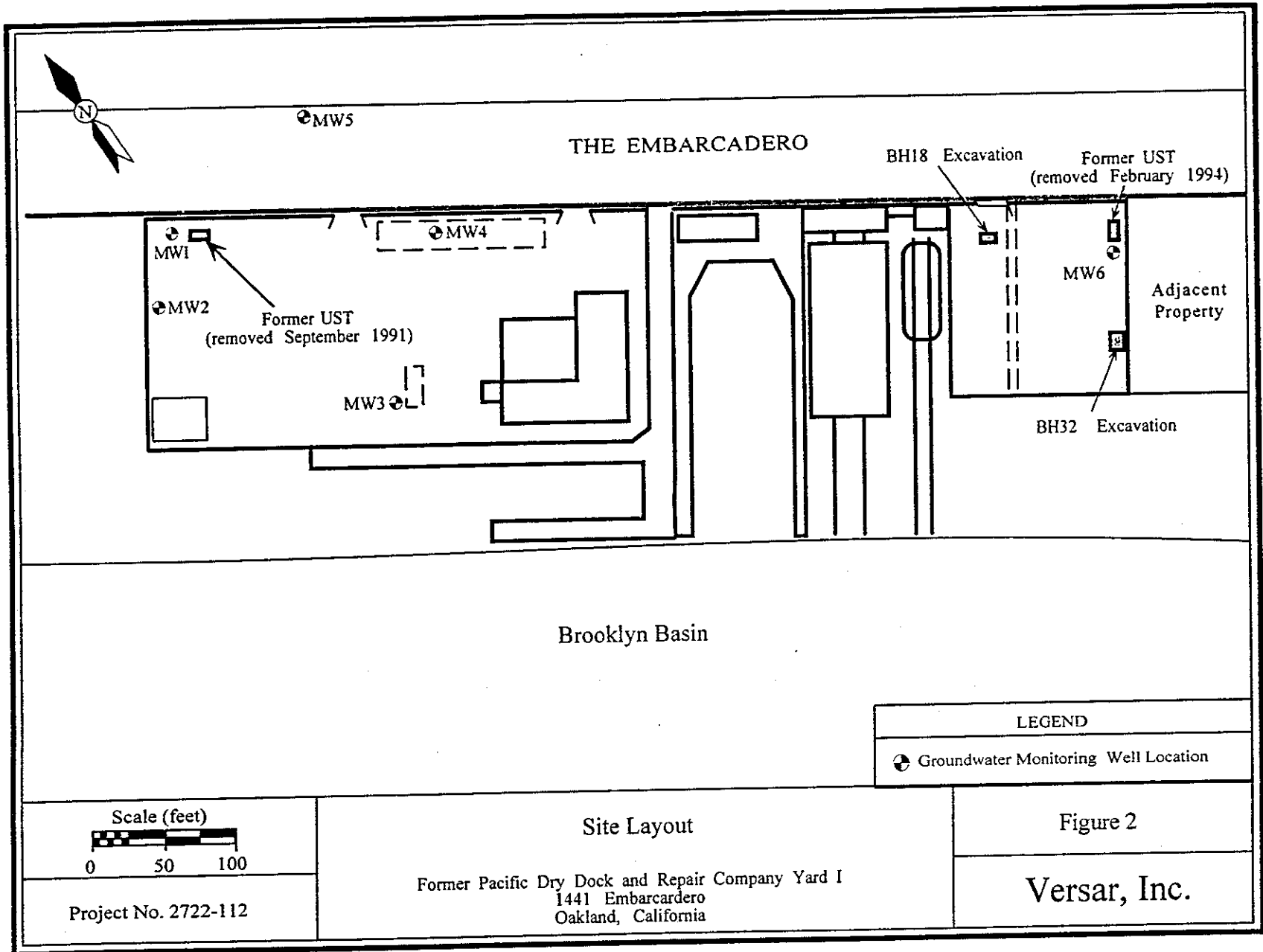
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Versar Inc.		DRILLING LOG		PROJECT NO. _____	
Supervising Geologist: M Sellers			Site Name: PDD1 W		
Log By: h. Klewiczka			Boring No: MW5		
Date: 6/24/93			Boring Diameter: 8"		
Drilling Contractor: Turner Exploration			Boring Depth:		
Contractor Lic. No.			Boring Location: N side of Embarras rd		
Rig Type:			at edge of roadway		
Driller: John Turner					

Depth (ft)	Advanced/Recovered	Blow Counts	First Water/Well Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
							SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES	COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	
							Asphalt surf 2"		
4	12						dry brown sandy gravel to 2' bgs becoming blk silty clay dry hard no odor		
							Green and rust inclusions to 1/4" diam becoming more moist & plastic with depth minor fracturing		
							with change at 4' bgs to silty gravel to 1/2" diam		
							with change at 5.5' bgs to silty clay olive brown with shells sat at 6.5' bgs in silty gravels silty clays begin at 7' bgs again		
							very muddy as above olive brown silty clay		
							silty gravel lens at 11' to 11.4'		
							high water content due to gravel lenses		
							end of hole at 14' in bay muddy silty clay olive brown with gravel lenses to 6" thick rounded guls to 1" diam.		

APPENDIX C



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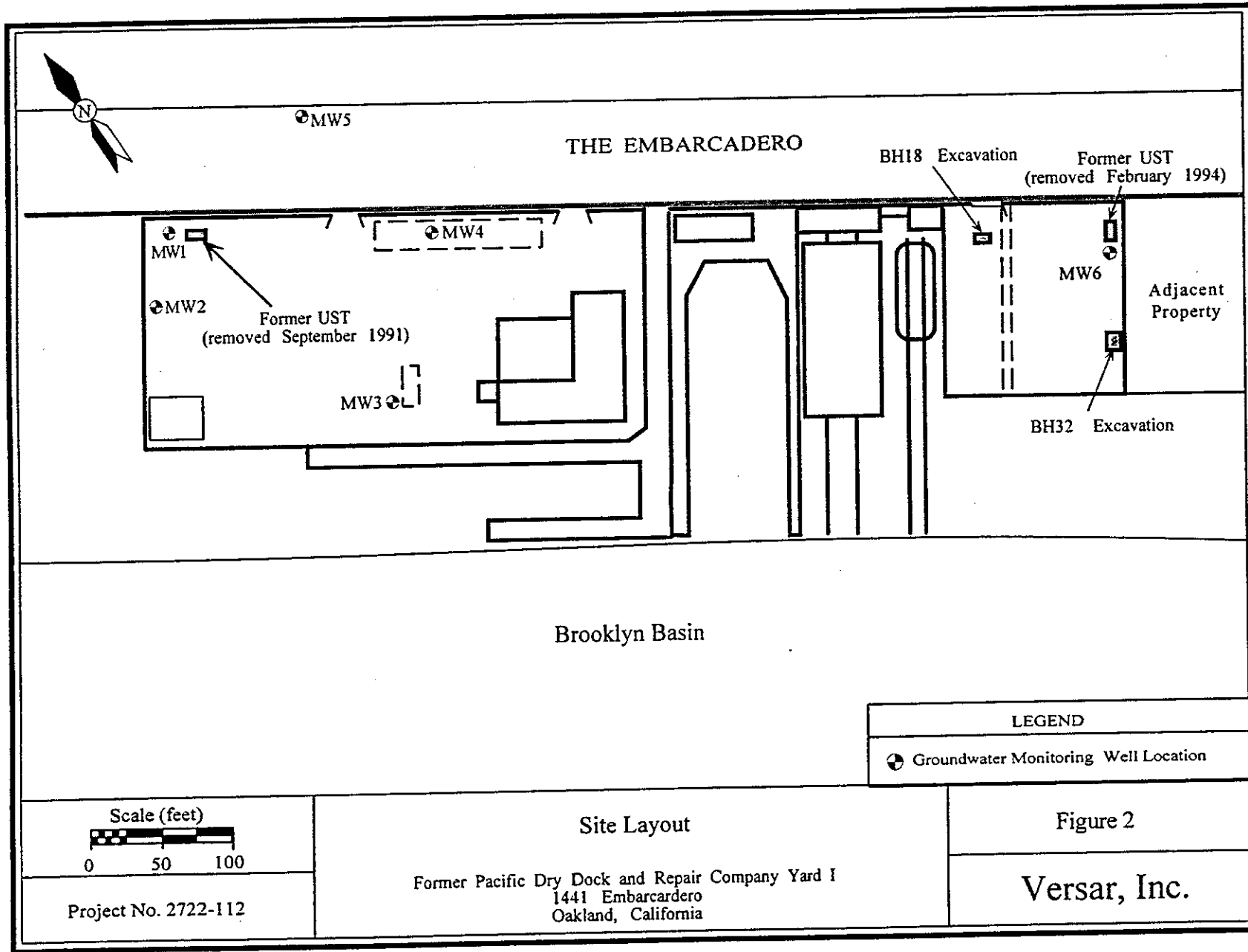
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Versar Inc.		DRILLING LOG		PROJECT NO. 2722-112	
Supervising Geologist: Paul Graff			Site Name: Former Pacific Dry Dock & Repair Yard I		
Log By: Philip Cox			Boring No: MW6		
Date: 2/28/96			Boring Diameter: 8 inches		
Drilling Contractor: West Hazmat			Boring Depth: 13.5 feet		
Contractor Lic. No. C57-554979			Boring Location: Eight feet south of former UST excavation.		
Rig Type: CME 75					
Driller: Jeff					

Depth (ft)	Advanced/Recovered	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION		Headspace (ppm)
						SOIL TYPE, ROUNDING, GRADING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK		
2				SW		0.0'-0.5' Asphalt with gravel base.		
4	6 8 9			SC		0.5'-3.0' Gravelly sand: dark brown, gravel up to 1.5" in diameter, subrounded, content approximately 30% decreasing with depth, sand fine grained, clay present at approximately 10%, saturated at approximately 4.0' bgs, fill.	3.0	0
6	1 2 1			CH		3.0'-6.0' Clayey sand: gray, no hydrocarbon odor or staining, shells, clay increasing with depth from 10 to 40%, saturated, sand moderately graded fine to medium-grained.	5.5	0
8						6.0'-14.5' Bay muds: clay with shells, moderate plasticity, no hydrocarbon odor or staining, saturated.		
10	2 8 4						9.0	0
12								
14	1 2 3						14.5	0
16								
Well construction: 10' of 2 inch 0.020 inch slotted screen, 3' blank, 11' sand, 1 foot bentonite chips, and cement grout to 6" bgs.								



p:\crowley\yd\2722112