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HAZMAT

TELEFAX TRANSMITTAL

DATE: 6/8/94 ENTRIX JOB NO.: 351100

TO: ROY COMBS URGENT:

COMPANY: KENNEDY & WASSERMAN CONFIDENTIAL:

CITY/STATE: OAKLAND / CA

FAX NO.: (510) - 272 - 0579 -

FROM: JEREMY BARTZETT

SUBJECT: BORING LOGS - FOR :

COMMENTS: MAPES / CHEURON / EXXON - ALAMEDA

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Boring ID: 1 Page 1 of 1

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: SSU00

SITE ADDRESS: 2001 VERMONT AVENUE

DATE: 5/25 to

CONTRACTOR: _____

RIG TYPE: MOBIL 61

DRILLING METHOD: US-A

SAMPLING METHOD: SPIN & PUMP

DRILLER: _____

ASSISTANT: _____

GEOLOGIST(S): JEFFREY BARRETT

SIGNATURE: Jeffrey Barrett

Depth (ft)	Sample Interval (ft)	Blow Count	Penetration Reading	Lithological Description (Mineral inclusions, color, USCS coding, plasticity, grain type, cementation, voidness, etc.)	USCS Soil Symbol	Remarks (odor, water, sample ID, etc.)
1	1.2	9/7/3	1/0	10YR 9/3 SW DAMP NO PETROL. ODOR LOOSE		Soil (HNU) BREATHING ZONE
2						
3	1.2	8/10/15	20/0	10YR 5/1 SW/CL/ML		STRONG GAS ODOR GRADUAL BUT RAPID TRANSITION TO CLAY.
4						
5	1.5	11/15/20	200/0	10YR 5/1 SW WET PETROL. ODOR SAMPLE 1		
6				10YR 5/1 CL DAMP ODOR OF PETROL. LOCALLY WET.		
7	1.2	7/9/13	1000/50	10YR 4/1 SW DAMP LOOSE		AUGER STEM - "40" IN.
8	1.5	6/12/20	15/0	10YR 6/1 ML DAMP MOTTLED S/L STIFF		PETROL ODOR LEST PETROL ODOR
9	1.5	5/10/5	0.5/0	10YR 6/1 (6/6) MOTTLES AS ABOVE STIFF F.V. FAINT ODOR		ROOTS IN MOTTLES
10						30" IN AUGER ~ 30% FINE SAND.
11	1.5	5/2/21	0.5/0	10YR 5/2 SW VERY WET LOOSE NO ODOR (SF. SAND) SAMPLE 2 AT 11-11.5)		GETTING CLOSE TO WATER
12	1.5	12/16/26	2/3	10YR 5/3 SW SATURATED SOME CL BEGS (0.1") NO ODOR SOFT. LOWER 0.5' STIFF		1st WATER
13						
14	1.0	18/10/33	0.1/0	AND WET (NOT SATURATED) 10YR 5/3 SW SATURATED SOFT. MEDIUM SAND		SPIN IN AUGER SAND & SHELLS "SWEET" (NOT PETROLEUM) (L.G. LIQUOR) (COULD BE BACKGROUNDFLOWS)
15	0.6	23/20/21	0.1/0	10Y 5/3 SP SATURATED SOFT. MEDIUM SAND NO ODOR		
16						
17	1.2	17/35/50	5/0	10YR 5/3 SW SATURATED SOME SILT - STIFF		NO ODOR 1/200 STAINING
18	0.5	16/50	6/0	10YR 5/3 SP MED SAND LOOSE SATURATED (FLOWING) NO ODOR AT 18' STIFF		3" IN AUGER
19						
20		21/50	0/0	10YR 5/2 SP MED SAND AS ABOVE STIFF		4" IN AUGER

20' TO 10' 00
SAND FLOWS TO 11' BL

MONITOR WELL CONSTRUCTION FORM

ENTRIX

CLIENT: MAPES
 SITE ADDRESS: 2001 VERSAILLES
 DATE: 5/25/94 WELL ID: 1 Project Number: 351100
 CONTRACTOR: KULLHAUG
 DRILLER/INSTALLER: _____
 INSPECTOR: _____ Page 1 of 1

WELL DESCRIPTION	WELL DIAGRAM
WELLHEAD	Comment: _____ USGS Borehole Casing
Top of Casing Elevation: _____ [MSL]	(In. Water Level) _____ (ft) _____ (m) _____
Wellhead Type: <u>FLUSH/STICKUP</u>	
Locking Cap: <u>Y/N</u> Key #: _____	
Christy Box Bolt Size: _____	
CASING	
Type: PVC: Schedule 20/ <u>40</u> /80 Steel: Stainless/Carbon Other: _____	
Diameter: <u>2</u> (in) / <u>5.08</u> (cm)	
Interval: <u>10</u> to <u>0</u> (ft) / <u>3.05</u> (m) bgs	
SCREEN	
Type: PVC: Schedule 20/ <u>40</u> /80 Steel: Stainless/Carbon Other: _____	
Diameter: <u>2</u> (in) / <u>5.08</u> (cm) (<u>4.5</u>)	
Interval: <u>20</u> to <u>10</u> (ft) / <u>6.10</u> (m) bgs	
Slot Type: <u>0.20</u> <u>0.010</u>	
END CAP	
Cap: <u>Y/N</u> Silt Trap: <u>Y/N</u>	
Interval: <u>20</u> to <u>2000</u> (ft) / <u>6.10</u> (m) bgs	
BOREHOLE FILL	
Grout Type: _____	
Interval: _____ to _____ (ft) / _____ (m) bgs	
Seal Type: _____	
Interval: _____ to _____ (ft) / _____ (m) bgs	
Sand Pack Type: <u>#3</u>	
Interval: <u>20</u> to <u>29</u> (ft) / <u>6.10</u> (m) bgs	
Backfill: Y/N Type: _____	
Interval: _____ to _____ (ft) / _____ (m) bgs	
Well T.D.: <u>20</u> (ft) / <u>6.10</u> (m) bgs	
Borehole Diameter: <u>7</u> (in) / <u>17.8</u> (cm)	
COMMENTS	
<u>3 FT OF SAND PUSHED OUT OF BASE (FLOWED IN)</u>	
<u>10' PRE-PACK CASING USED.</u>	
SIGNATURE OF RECORDER	
<u>[Signature]</u>	

Boring ID: 2 Page 1 of

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: 35100

SITE ADDRESS: 2001 VERSAILLES AVE

DATE: 5/25 to

CONTRACTOR: KULLHAUG

RIG TYPE: H 61

DRILLING METHOD: 15A

SAMPLING METHOD: SPLIT SPOON

DRILLER:

ASSISTANT: GEORGE

GEOLOGIST(S): JEREMY BARTLETT

SIGNATURE: [Signature]

Bore No.	Sample Interval/Recovery	Blow Count	Penetration Reading	Geological Description (Moisture/consistency/USCS/grading/plasticity/grain type/compaction/roundness/details)	USES Soil Symbol	Remarks (odor/water/sample/D etc)
1	0.4	2/9/7	0/0.8	ML 10YR 3/2 WITH GRASS		NO BREATHING BONE/SOIL
2				ML 10YR 3/2 DAMP NO ODOR 20% GRASS + ROOTS LOOSE		2.5' IN AUGER
3	0.5	1/1/1	0/0	CL 10YR 4/4 SATURATED LOOSE NO ODOR 10% ROOTS PROBABLY FILL		1.0' IN AUGER
4	0.6	1/2/3	0/0.8	10YR 2/0 SC SATURATED LOOSE FAINT PETROL ODOR 5% GRAVEL		0' IN AUGER
5	0.4	9/15/29	0/0.4	AS ABOVE		0.5' IN AUGER
6	1.5	5/20/39	0/0	AS ABOVE (TIE MILD ACRES WITH ODOR)		0' IN AUGER
7	0.4	25/28/32	0/0	10YR 4/2 5% FAINT ODOR STIFF WET		0' IN AUGER
8	0.5	7/28	0/0	10YR 5/0 SC SATURATED LOOSE FAINT ODOR OF PETROL 5% GRAVEL		0' IN AUGER SAMPLE 3
9	1.5	2/29/39	0/0	10Y 5/4 SP WET STIFF NO ODOR FINE SAND		0' IN AUGER
10	1.2	23/50	0/0	10YR 5/3 SP WET/SATURATED (FLUID WHEN VIBRATED BUT STIFF NO ODOR FINE SAND)		0.5' IN AUGER
11	1.5	24/40/39	0/0.3	AS ABOVE		0' IN AUGER
12	0.7	24/50	0/0	AS ABOVE 1% FAINT		0.5' IN AUGER
13	0.0	50(5")	0/NA		---	0.0' IN AUGER
14	0.0	50(5")	0/NA		---	
15						
16						
17						
18						
19						
20						

MONITOR WELL CONSTRUCTION FORM		ENTRIX	
CLIENT: <u>MAPES</u>		<u>MW-2</u>	
SITE ADDRESS: <u>200 VERSAILLES AVE</u>		Project Number: <u>351100</u>	
DATE: <u>5/24</u>		WELL ID: <u>MW-2</u>	
CONTRACTOR: <u>LEWIS & CLARK</u>		Page <u>1</u> of <u>1</u>	
DRILLER/INSTALLER: _____		INSPECTOR: _____	
WELL DESCRIPTION		WELL DIAGRAM	
WELLHEAD Top of Casing Elevation: _____ [MSL] Wellhead Type: <u>FLUSH/STICKUP</u> Locking Cap: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Key #: _____ Christy Box Bolt Size: _____		COMMENTS (In water level) _____	
CASING Type: PVC: Schedule 20/ <u>40</u> 80 Steel: Stainless/Carbon Other: _____ Diameter: <u>2</u> (in/cm) Interval: <u>0</u> to <u>10</u> (ft/m bgs)		USES Borehole: _____ Casing: _____ Details: _____	
SCREEN Type: PVC: Schedule 20/ <u>40</u> 80 Steel: Stainless/Carbon Other: _____ Diameter: <u>3</u> <u>4.5</u> (in/cm) Interval: <u>10</u> to <u>20</u> (ft/m bgs) Slot Type: <u>0.20</u>		BLANK	
END CAP Cap: <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Silt Trap: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Interval: <u>20</u> to <u>20.5</u> ft/m bgs		GROUT	
BOREHOLE FILL Grout Type: _____ Interval: _____ to _____ ft/m bgs Seal Type: _____ Interval: _____ to _____ ft/m bgs Sand Pack Type: _____ Interval: _____ to _____ ft/m bgs Backfill: <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Type: _____ Interval: _____ to _____ ft/m bgs Well I.D.: _____ ft/m bgs Borehole Diameter: <u>2</u> (in/cm)		PREPACK	
COMMENTS <u>PREPACK USED FOR</u> <u>20-10' BG. FILLED</u> <u>WITH #3 SAND</u> <u>BOREHILL DRILLED TO 21</u>		W#	
SIGNATURE OF RECORDER: _____		_____	

Boring ID: 3 Page 1 of 2

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: 351100

SITE ADDRESS: 2001 VEREAULES AVE

DATE: 5/27 to

CONTRACTOR: KUILHAUGE

RIG TYPE: Bol

DRILLING METHOD: F/S

SAMPLING METHOD: SPLIT SPIN

DRILLER: KEITH

ASSISTANT: GEORGE

GEOLOGIST(S): DEBRAH BARTZETI

SIGNATURE: [Signature]

Bgs	Sample Interval/Recovery	Blow Count	Penetration Reading	Lithological Description (Mineral content, grain type/cement/fineness/details)	USCS Soil Symbol	Remarks (odor/moisture/sample/ID etc)
1	0.6	18/50 (4")	0/0	10 YR 4/ GC (SOIL) ~ 20% LOOSE		NO BREAKING ZONE SOIL
2				LOOSE. FINE SAND		MINOR CONCRETE LAGS
3	1.2	15/23/24	0/0	10 YR 3/2 SC NO ODOR DRY LOOSE. FINE SAND		0 IN AUGER
4	1.3	8/11/16	0/0	10 YR 5/2 CL (70% FINE SAND) DAMP, STIFF NO ODOR		0.5 in AUGER MOTTLING
5	1.3	15/15/18	0/100	10 YR 5/4 SC DAMP NO ODOR UNTIL 'BASAL 0.5' THEN PETROL		13 ppm IN AUGER SAMPLE 7
6	1.5	3/9/15	0/250	MED-FINE SAND (10 YR 5/1 AT BASE) 10 YR 5/1 SP DAMP/WET		6-6.5"
7				SOFT F-M SAND V-STRONG PETROL		40 ppm IN AUGER SAMPLE 8
8	1.3	MISSED 11/13/17	0/50	10 YR 4/1 SC DAMP V-STRONG PETROL ODOR SOFT		2.5-8" 100 ppm IN AUGER
9	1.5	11/13/15	0/5	10 YR 5/2 SC DAMP UPPER 2.5' PETROL ODOR SAMPLE 9 F-M SAND STIFF		MOTTLING AND ROOTS. ABUNDANT ORANGE MOTTLES
10	1.5	9/10/13	0/18-5	10 YR 5/2 SC/SP WET PETROL ODOR (HNU 5-8 ppm) SOFT. BORDERING ON SATURATED		10 ppm IN AUGER (SOIL OPEN AT BASE) MOTTLING & ROOTS.
11	1.4	11/10/22	0/0.2	10 YR 5/1 SC WET LOCALY CRUMBLY/STIFF PARTS DRY		
12	1.5	17/18/26	0/0	10 YR 5/2 SC/SP WET SOFT NO PETROL ODOR BUT A SWEET SMELL (SP AT BASAL 0.4')		COMMON ORANGE MOTTLES ROOTS
13	0.8	21/50 (5")	0/0	10 YR 5/6 SP MED-F SAND NO ODOR SATURATED		SOFT IN AUGER
14	0.7	19/50(5")	0/0	AS ABOVE... SATURATED		20 ppm IN AUGER
15	0.4	24/50(3")	0/0	AS ABOVE		25 ppm IN AUGER
16						5 ppm IN AUGER

Boring ID: 3 Page 2 of 2

SOIL BORING LOG

ENTRIX

CLIENT: MADIS

Project #: 35400

SITE ADDRESS: 2601 VERSAILES

DATE: 5/27/04 to

CONTRACTOR: WILHAUG

RIG TYPE: 601

DRILLING METHOD: HSA

SAMPLING METHOD: SPLIT SPIN

DRILLER: COSEY

ASSISTANT: GEORGE


GEOLOGIST(S): SERENA BARTLET

SIGNATURE: *[Handwritten Signature]*

ft logs	Sample	Blow Counts	Instru- ment Reading	Lithological Description <small>(Mineral/mica/clay/organic/USCS/pc/ln/plasticity/ grain size/cementation/notes/details)</small>	USCS Soil Symbol	Remarks <small>(odor/water/temp/D/...)</small>
	Interval Recovery					
21	0.0	50/5"	0/0	No sample recovered	20 in above
22						SANDS STARTING TO FLOW INTO AUGER
23						
24						
25						

MONITOR WELL CONSTRUCTION FORM **ENTRIX**

CLIENT: MAPES
 SITE ADDRESS: 2001 VERSAILLES AVE
 DATE: 5/27/94 WELL ID: MW-3 Project Number: 351100
 CONTRACTOR: LOVILLARD'S
 DRILLER/INSTALLER: _____ Page 1 of 1
 INSPECTOR: _____

WELL DESCRIPTION	WELL DIAGRAM			
WELL HEAD	Comments	ft	USES	BOREHOLE
Top of Casing Elevation: _____ [MSL]	(ft. / above)	ft	Symbol	Fill
Wellhead Type: <u>FLUSH/STICKUP</u>				
Locking Cap: <u>Y/N</u> Key #: _____				
Christy Box Bolt Size: _____				
CASING				
Type: <u>PVC</u> Schedule <u>20</u> / <u>40</u> / <u>80</u>				
Steel: <u>Stainless/Carbon</u>				
Other: _____				
Diameter: <u>2</u> in/cm				
Interval: <u>0</u> to <u>16</u> ft/m bgs				
SCREEN				
Type: <u>PVD</u> Schedule <u>20</u> / <u>40</u> / <u>80</u>				
Steel: <u>Stainless/Carbon</u>				
Other: _____				
Diameter: <u>2</u> in/cm				
Interval: <u>16</u> to <u>26</u> ft/m bgs				
Slot Type: <u>0.020</u>				
END CAP				
Cap: <u>Y/N</u> Silt Trap: <u>Y/N</u>				
Interval: <u>21</u> to <u>26.5</u> ft/m bgs				
BOREHOLE FILL				
Grout Type: <u>PORTLAND/BELENITE</u>				
Interval: <u>0</u> to <u>14</u> ft/m bgs				
Seal Type: <u>BELENITE</u>				
Interval: <u>14</u> to <u>16</u> ft/m bgs				
Sand Pack Type: <u>#3</u>				
Interval: <u>16</u> to <u>21</u> ft/m bgs				
Backfill: <u>Y/N</u> type: _____				
Interval: _____ to _____ ft/m bgs				
Well T.D.: <u>21</u> ft/m bgs				
Borehole Diameter: <u>8</u> in/cm				
COMMENTS				
SIGNATURE OF RECORDER				
				

Borehole
#3



Boring ID: 4 Page 1 of 1

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: 351100

SITE ADDRESS: 2001 VERSAILLES AVE

DATE: 5/27/24 to

CONTRACTOR: KULLHAUG

RIG TYPE: B61

DRILLING METHOD: USA

SAMPLING METHOD: SPLIT SPONS

DRILLER: STEVE

ASSISTANT: GEORGE

GEOLOGIST(S): JEREMY BARRETT

SIGNATURE: [Signature]

R Bgt.	Sample Interval Recovery	Blow Counts	Hard- ness Reading	Lithological Description		USCS Soil Symbol	Remarks Gr/S/Water Sample ID/Spec
				Munae/moisture/organic/USCS/soil/plasticity/ grain type/comed/roundness/details			
1		24/50	0/	10YR 4/4 GC	DRY NO COOR		HWD BREAKING ZONE
2		(5")			LOOSE		SOIL CONCRETE RUBBLE IN SOIL
3	0.9	15/18/11	0/80	10YR 3/2 ML	(20% M-F SAND) LOOSE DAMP PETROL ODOR		
4	1.0	6/2/3	0/200	10YR 3/1 ML	(20% F.M SAND) STRONG ODOR OF PETROL DAMP STIFF BASE 0.5 IS W/ R S/1		POOR SAMPLE INTEGRITY 10 IN AUGER
5							
6	1.1	8/13/15	0/300	UPPER 0.3 FT AS ABOVE	10YR 5/1 SP MED-FINE SAND LOOSE DAMP STRONG ODOR OF PETROL		SAMPLE 10 5-5.5 30 IN AUGER
7	1.5	6/12/20	0/200	UPPER 0.5' AS ABOVE (PETROL ODOR) LOWER 1.0' 10YR 6/1 ML	STIFF DAMP, PETROL ODOR TO 10YR NO HW.		SAMPLE 11 14 IN AUGER
8							
9	1.5	10/17/17	1/50	10YR 6/2 WITH MOTTLED ML, SLIGHT PETROL ODOR, STIFF DAMP			MOTTLED & ROOTS IN M COMMON MOTTLED AND ROOTS (SAMPLE 11) 9-9.5'
10	1.5	8/5/18	0/3	UPPER 0.5 AS ABOVE Slight Petrol 10YR 5/3 SC WET, SLIGHT PETROL ODOR.			GRADUAL CHANGE BORDER ON SW ABUNDANT IRON STAINING PATCHES OF GRAY (ML AT BASE) 3 ppm IN AUGER
11							
12	1.4	5/4/16	0/3-0	10YR 5/4 SC (ML AT TOP 0.3') STIFF TO LOOSE WET (NOT QUITE SATURATED) HWD DECREASES			10.0 ppm IN AUGER
13	1.5	13/12/29	0/0.2	10YR 5/2 SC STIFF NO COOR MOIST. LOOSE 4.0' SW F-M SAND			30 ppm IN AUGER
14							
15	0.5	18/50	0/0	10YR 5/4 SP SATURATED NO COOR LOOSE			5 ppm IN AUGER
16		(5")					
17	1.0	12/30/38	0/0	10YR 5/4 SP SATURATED NO COOR M-F SAND LOOSE			
18	1.1 (2)	18/50	0/0	4.5' AS ABOVE SC/ML LENS IN BASAL 0.4 STIFF MOIST/WET			
19		5"					
20							

MONITOR WELL CONSTRUCTION FORM **ENTRIX**

CLIENT: MAPES
 SITE ADDRESS: 2001 VERSAILLES AVE
 DATE: 5/27/94 WELL ID: MW-4 Project Number: 35110D
 CONTRACTOR: KULHAGE
 DRILLER/INSTALLER: _____
 INSPECTOR: _____ Page 1 of 1

WELL DESCRIPTION **WELL DIAGRAM**

WELLHEAD
 Top of Casing Elevation: _____ [MSL]
 Wellhead Type: FLUSH/STICKUP
 Locking Cap: Y/N Key #: _____
 Christy Box Bolt Size: _____

CASING
 Type: PVC Schedule 20(40) 80
 Steel: Stainless/Carbon
 Other: _____
 Diameter: 2 (in) cm
 Interval: 0 to 19 ft/m bgs

SCREEN
 Type: PVC Schedule 20(40) 80
 Steel: Stainless/Carbon
 Other: _____
 Diameter: 2 (in) cm
 Interval: 19 to 19 (ft) m bgs
 Slot Type: 0.020

END CAP
 Cap: Y/N Silt Trap: Y/N
 Interval: 19 to 19.2 ft/m bgs

BOREHOLE FILL
 Grout Type: PORELAND/BENTONITE
 Interval: 0 to 12 ft/m bgs
 Seal Type: BENTONITE
 Interval: 12.5 to 13.5 (ft) m bgs
 Sand Pack Type: #3
 Interval: 13.5 to 19 (ft) m bgs
 Backfill: Y/N Type: _____
 Interval: _____ to _____ ft/m bgs
 Well T.D.: 19 (ft) m bgs
 Borehole Diameter: 8 (in) cm

COMMENTS

SIGNATURE OF RECORDER

Comments	ft	USGS	Borehole	Casing	Details
	1				
	2				
	3				
	4				
	5				
	6				
	7				
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				

BLANK

#3 SAND

TD

Handwritten Signature

Boring ID: 5 Page 1 of

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: 351100

SITE ADDRESS: 2051 VERSAILLES AVE

DATE: 5/26/94 to

CONTRACTOR: KUIK HANG

RIG TYPE: BG1

DRILLING METHOD: HSA

SAMPLING METHOD: SPLIT SPOON

DRILLER:

ASSISTANT: GEORGE

GEOLOGIST(S): JEFFREY BARTLETT

SIGNATURE: Jeffrey Bartlett

Depth (ft)	Sample Interval (ft)	Blow Count	Instrument Reading	Lithological Description		USCS Soil Symbol	Remarks
				Moisture Content (%)	Grain Size / Details		
1	0.4	28/50	0/-	10YR 3/2 SC (SOL)	~25% CLAY		HIGH BREATHING ZONE / SOIL.
2	(4")						CONCRETE RUBBLE FRAGMENTS
3	0.6	17/2/25	0/0	10YR 3/1 CL	DRY/DAMP. VELY STIFF (10% SAND)		0" IN AUGER
4	0.8	7/15/21	0/0.2	10YR 5/2 ML	(25% SAND) SLIPY DAMP. NO ODOR.		0 IN AUGER
5	1.1	8/12/20	0/40	10YR 5/1 ML	DAMP STIFF STRONG PETROL ODOR.		UP TO 30% SAND AT BASE ROOTS
6	1.5	6/12/18	100/0	SAMPLE 5 (LIKE GASOLINE AS ABOVE MORE MOTTLING & ROOTS)			1 MOTTLING
7	1.5	9/9	-/5	AS ABOVE BUT WET IN LOWER 0.5' (SAMPLE 6 FROM 9-9.5)			9 ppm IN AUGER NO MOTTLING ROOTS
8	1.5	5/9/3	0/0.2	5Y 4/2 ML	(BOROSIL ON SC.) SATURATED SOFT. SC ZONE IN CENTER. NO ODOR		UPPER 0.5 HAS RESPONSE LOWER = ?
9	1.1	7/7/19	0/0	10YR 5/2 SLS	SATURATED. LOOSE NO ODOR.		LESS TO NO ODOR DEEPER
10	1.1	17/50	0/0	10YR 5/2 SP	FINE SAND NO ODOR SATURATED LOOSE		11 IN AUGER DRIER AT BASE
11	1.0	20/50/5	0/0	10YR 5/2 SP	FINE TO MEDIUM SAND NO ODOR, SATURATED LOOSE		STIFF ML AT BASE 5 IN AUGER
12	0.4	5/5/1	0/0	AS ABOVE			8 ppm IN AUGER.
13	0.4	5/5/1	0/0	AS ABOVE			2 ppm IN AUGER
14	0.4	5/5/1	0/0	AS ABOVE			2 IN AUGER
15	0.8	21/50/31	0/0	UPPER 0.5 FT AS ABOVE. LOWER 0.3 FT 10YR 5/3 CL LENSES WITH SP			LENSE OF CL
16							
17							
18							
19							
20							

21
22

TD AT 20 FT BG

MONITOR WELL CONSTRUCTION FORM

ENTRIX

CLIENT: MAPES
 SITE ADDRESS: ZOO, VERSAILLES
 DATE: 5/26 WELL ID: MW-5 Project Number: 351180
 CONTRACTOR: KALHAUG
 DRILLER/INSTALLER: _____
 INSPECTOR: _____ Page 1 of _____

WELL DESCRIPTION | **WELL DIAGRAM**

WELLHEAD | Comments | Uses | Borehole | Casing | Details

Top of Casing Elevation: _____ [MSL]
 Wellhead Type: FLUSH/STICKUP
 Locking Cap: Y/N Key #: _____
 Christy Box Bolt Size: _____

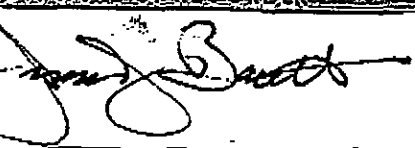
CASING
 Type: PVC Schedule 20/40/80
 Steel: Stainless/Carbon
 Other: _____
 Diameter: 2 in/cm
 Interval: 0 to 12 ft/m bgs

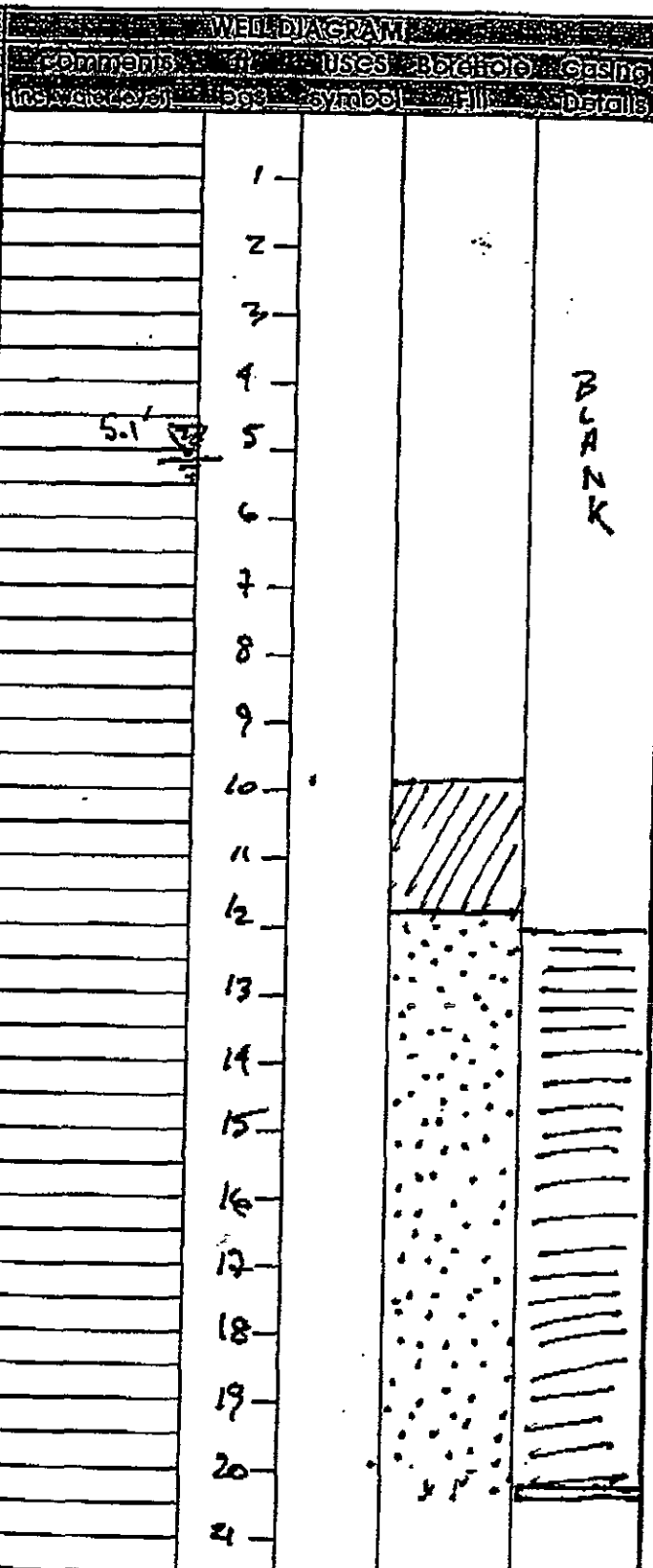
SCREEN
 Type: PVC Schedule 20/40/80
 Steel: Stainless/Carbon
 Other: _____
 Diameter: 2 in/cm
 Interval: 20.5 to 12 ft/m bgs
 Slot Type: D.O.C.O.

END CAP
 Cap: Y/N Silt Trap: Y/N
 Interval: 20 to 20.5 ft/m bgs

BOREHOLE FILL
 Grout Type: PORTLAND + BENTONITE
 Interval: 0 to 10 ft/m bgs
 Seal Type: BENTONITE
 Interval: 10 to 12 ft/m bgs
 Sand Pack Type: #3
 Interval: 12 to 20 ft/m bgs
 Backfill: Y/N Type: _____
 Interval: _____ to _____ ft/m bgs
 Well T.D.: 20 ft/m bgs
 Borehole Diameter: 8 in/cm

COMMENTS

SIGNATURE OF RECORDER




Boring ID: 6 Page of

SOIL BORING LOG

ENTRIX

CLIENT: MAPES

Project #: 35100

SITE ADDRESS: 2001 URSALLES AVE

DATE: 5/26 to

CONTRACTOR:

RIG TYPE: M61

DRILLING METHOD: USA

SAMPLING METHOD: SPLIT SPOON

DRILLER:

ASSISTANT: GEORGE

GEOLOGIST(S): JEREMY BARTLET

SIGNATURE: Jeremy Bartlett

Sample No.	Sample Interval/Recovery	Blow Count	Instrument Reading	Lithological Description (Moisture, grain size, etc.)	USCS Soil Symbol	Remarks
1	0-1	28/50 (4")	0/0	10 YR 4/4 GC Dry (SOIL)	10-9-1	HAZ: BREATHING ZONE / SOIL (9:30 START)
2				LOOSE (CONCRETE RUBBER IN CATCHER)		
3	0-4	17/19/24	0/0	10 YR 4/4 ML (40% SILT)	10-11-1	DRY
4				STIFF NO ODOR		
5	0-5	27/30/50 (4")	0/0	10 YR 2/4 CL V. STIFF DRY/MOIST	10-12-1	DRIVER STICKING / JAMMING POOR / BLOW COUNTS
6				NO ODOR (V. BLACK)		
7	1-5	6/12/7	0/0	AS ABOVE (15% FINE SAND)	10-13-1	GRADUAL TRANSITION OVER 0.5'
8				NO ODOR		
9	1-5	8/5/23	-/0	2.5 YR 5/2 ML SOME ROOTS STIFF	10-14-1	TRANSITION RAPID OVER 3 CM
10				AS ABOVE		
11	1-2	2/12/33	0/0	5 Y 5/1 SP MOIST NO ODOR	10-15-1	SAMPLE 4 AT CONTACT / ROOTS & IRON STAINS
12				LOOSE/SOFT		
13	1-3	10/17/24	0/0	5 Y 5/1 SC SATURATED NO ODOR	10-16-1	IRON STAINS & ROOTS UPPER 0.5'
14				2.5 YR 5/2 ML MOIST SOFT/FIRM		
15	1-1	8/16/31	0/0	10 YR 6/1 SP FINE TO MEDIUM SAND NO ODOR	10-17-1	ROOTS UPPER 0.5' → SC
16				LOOSE/SOFT DAMP TO WET		
17	1-1	5/2/20	0/0	10 YR 3/3 SN FINE SAND MOIST	10-18-1	LOWER 0.5 IS MEDIUM SAND/SC
18				SOFT NO ODOR LOWER IS CONDENSED (ALL BORDERS ON SC)		
19	0-8	5/1/17	0/0	10 YR 5/1 SC NO ODOR	10-19-1	COMMON IRON STAINING
20				DAMP GET INTO 10 YR SP 5/3		
21	1-1	5/2/20	0/0	5 Y NO ODOR WET/SATURATED	10-20-1	SOME SC / POSSIBLE SKIPPED
22				10 YR 5/3 SP FINE SAND WET		
23	0-8	5/1/17	0/0	NO ODOR, SOFT & LOOSE	10-21-1	COMPLETE IRON STAINING
24				10 YR 5/4 SP SW SATURATED		
25				NO ODOR		
26	1-0	24/30 3"	0/0	10 YR 5/3 SW SATURATED	10-22-1	
27				NO ODOR FROM MEDIUM POINT		
28				LOOSE		

MONITOR WELL CONSTRUCTION FORM **ENTRIX**

CLIENT: MAR'S MWS-CO
 SITE ADDRESS: 2000 VERSAILLES
 DATE: 5/20/99 WELL ID: MWS-6 Project Number: 351105
 CONTRACTOR: KWIK-DRILL
 DRILLER/INSTALLER: _____
 INSPECTOR: _____ Page 1 of 1

WELL DESCRIPTION	WELL DIAGRAM			
WELLHEAD	Comments	USGS	Boresite	Casing
Top of Casing Elevation: _____ [MSL] Wellhead Type: <u>FLUSH/STICKUP</u> Locking Cap: <u>Y/N</u> Key #: _____ Christy Box Bolt Size: _____	(Inch/ft/deg)	bgs	symbol	Fill
CASING				
Type: <u>PVC</u> Schedule <u>20/40/80</u> Steel: <u>Stainless/Carbon</u> Other: _____ Diameter: <u>2</u> (in) cm Interval: <u>0</u> to <u>60</u> (ft/m) bgs				
SCREEN				
Type: <u>PVC</u> Schedule <u>20/40/80</u> Steel: <u>Stainless/Carbon</u> Other: _____ Diameter: <u>2</u> (in) cm Interval: <u>20</u> to <u>10</u> (ft/m) bgs Slot Type: <u>0.020</u>				
END CAP				
Cap: <u>Y/N</u> Silt Trap: <u>Y/N</u> Interval: <u>20</u> to <u>20.2</u> ft/m bgs				
BOREHOLE FILL				
Grout Type: _____ Interval: _____ to _____ ft/m bgs Seal Type: _____ Interval: _____ to _____ ft/m bgs Sand Pack Type: <u>#3</u> Interval: <u>20</u> to <u>10</u> (ft/m) bgs Backfill: <u>Y/N</u> Type: _____ Interval: _____ to _____ ft/m bgs Well T.D.: _____ ft/m bgs Borehole Diameter: _____ in/cm				
COMMENTS				
SIGNATURE OF RECORDER				
<u>[Signature]</u>				
		1		
		2		
		3		
		4		
		5		
		6		
		7		
		8		
		9		
		10		
		11		
		12		
		13		
		14		
		15		
		16		
		17		
		18		
		19		
		20		

BLANK

Basalt

#3 SAND

0.20 Slot

END CAP

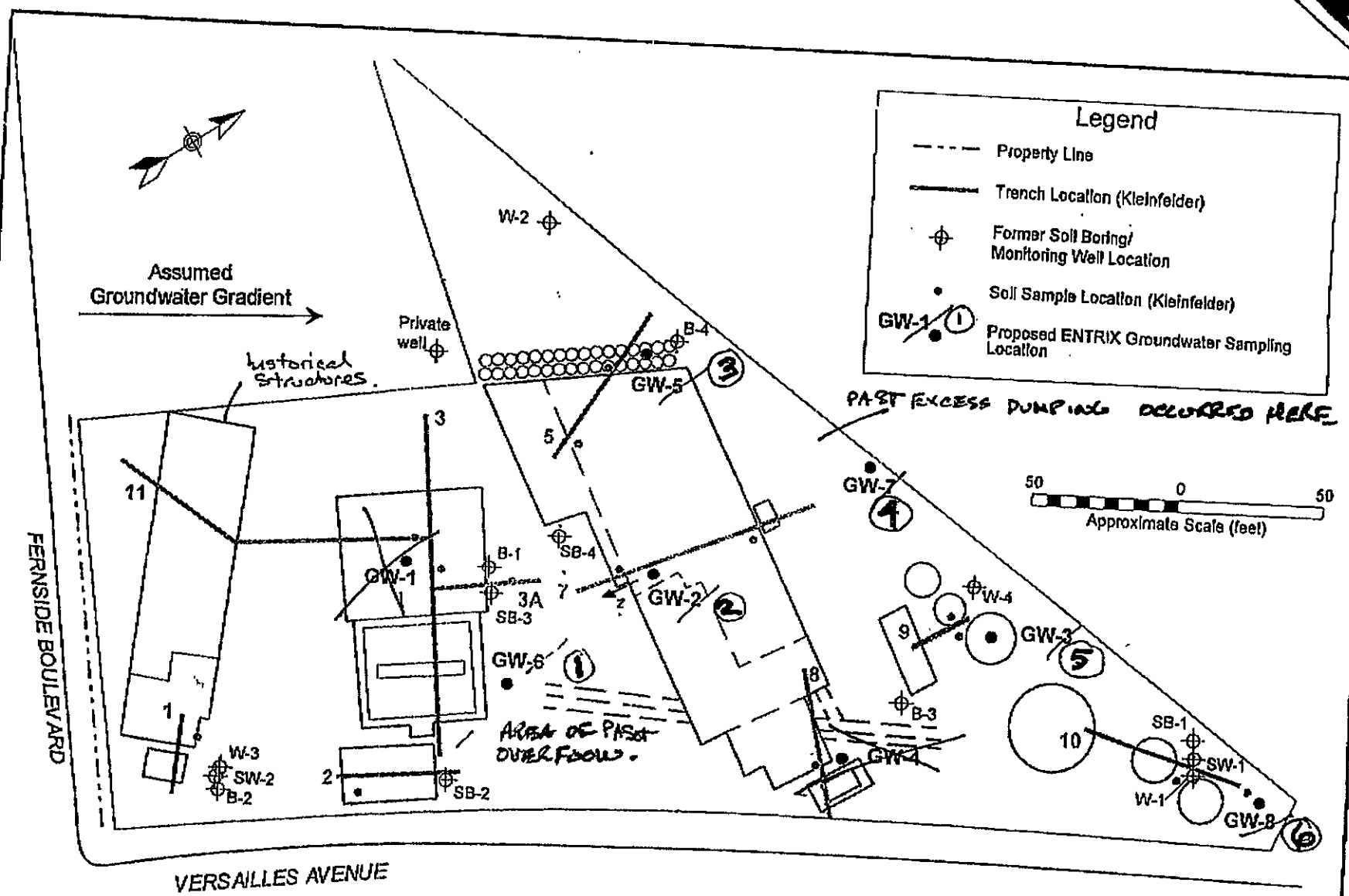


Figure 1. Proposed Groundwater Sampling Locations