



Camp Dresser & McKee, Inc.  
 18881 Von Karman Avenue, Suite 650  
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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-39  
 PROJECT NAME Playa Vista DATE DRILLED 03/09/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 26.80 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 27.29 ft. MSL DEPTH TO WATER NM  
 LOGGED BY A. Fajardo (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0					0			SANDY CLAY, WITH GRAVEL: grayish brown.		
					5					
					10	CL				
					15					
0					20			CLAY: dark gray.	20.0	
					25					
0					30					
					35	CL				
					40					

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PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-39  
 PROJECT NAME Playa Vista DATE DRILLED 03/09/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0					45					
					50					
					52.0				52.0	
					55			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.		
					60	GP				
					65					
					70				70.0	
								Total depth is 70 feet bgs.		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-77  
 PROJECT NAME Playa Vista DATE DRILLED 03/08/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 16.50 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 19.21 ft. MSL DEPTH TO WATER NM  
 LOGGED BY A. Fajardo (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0					0			SILTY SAND: brown, with gravel.		
					5	SM				
					10			CLAY: dark grey.	9.0	← Portland Cement with 5% Bentonite Grout (0-51 ft bgs)
					15	CL				← 2" Diam. Sch 40, PVC Blank (0-65 ft bgs)
					20					
					21.0			SANDY SILT: olive brown.	21.0	
					23.0	ML			23.0	
100					25			CLAY: gray, some silt.		
					30					
					35					
					40					

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PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-77  
 PROJECT NAME Playa Vista DATE DRILLED 03/08/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
260					45	CL				
260					58.0			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	58.0	
					65	GP				
					70.0			Total depth is 70 feet bgs.	70.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-82  
 PROJECT NAME Playa Vista DATE DRILLED 3/10/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 11.60 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 15.18 ft. MSL DEPTH TO WATER NM  
 LOGGED BY E. Schinsing GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	SM		SILTY SAND, LITTLE CLAY: light brown to brown (5YR4/2), well graded sand, moist.		<p>← Portland Cement with 5% Bentonite Grout (0-56 ft bgs)</p> <p>← 2" Diam. Sch 40, PVC Blank (0-64 ft bgs)</p>
					10	CL		CLAY WITH SAND AND GRAVEL: brown (5YR4/2); slightly plastic.	10.0	
					15			SAND, TRACE SILT: green olive (5YR5/3), fine sand, micaceous, very wet.	15.0	
					20	SM				
					25			SANDY CLAY: grayish brown, subrounded, coarse sand; very wet.	25.0	
					30	CL		CLAY, LITTLE SAND: gray, slightly plastic; very wet.	30.0	
					35					
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS

BORING/WELL NUMBER MMW-82

PROJECT NAME Playa Vista

DATE DRILLED 3/10/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	CL				
					50					
					55					
					60			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	59.0	
					65	GP				
								Total depth is 69 feet bgs.	69.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-103  
 PROJECT NAME Playa Vista DATE DRILLED 03/08/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 14.90 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 20.70 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Lopez GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	ML	(FILL) SANDY SILT: brown (10YR4/3), very fine sand.			
					10				13.0	
					15	ML	SILT: grayish black (2.5/5GY), slightly plastic, soft.			
					20			CLAYEY SAND: grayish black (2.5/5GY).		20.0
					25					
					30					
					35					
					40	SC				

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS

BORING/WELL NUMBER MMW-103

PROJECT NAME Playa Vista

DATE DRILLED 03/08/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45					
					50					
					55			SAND/GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were to fluid and/or loose to be collected by the split spoon sampler.	55.0	<p>Portland Cement with 5% Bentonite Grout (0-48 ft bgs)</p> <p>2" Diam. Sch 40, PVC Blank (0-60 ft bgs)</p> <p>Bentonite Pellets (57-64 ft bgs)</p> <p>#3 Lonestar Sand (64-70 ft bgs)</p> <p>2" Diam. Sch 40, PVC, 10-slot (65-70 ft bgs)</p>
					60					
					65	SP GP				
					70			Total depth is 70 feet bgs.	70.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10610-27775-NEWELLS	BORING/WELL NUMBER	MMW-112
PROJECT NAME	Playa Vista	DATE DRILLED	03/08/2000
LOCATION	Playa Vista Area D	CASING TYPE/DIAMETER	2" Sch 40 PVC
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	2" Sch 40 PVC/10 slot
SAMPLING METHOD	Cuttings	GRAVEL PACK TYPE	#3 Lonestar Sand
GROUND ELEVATION	13.20 ft. MSL	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	15.59 ft. MSL	DEPTH TO WATER	NM
LOGGED BY	ATF (Group Delta)	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0					0			CLAYEY SAND: brown.		
					5	SC				
					8.0			CLAY: dark gray.	8.0	<p>← Portland Cement with 5% Bentonite Grout (0-47 ft bgs)</p> <p>← 2" Diam. Sch 40, PVC Blank (0-60 ft bgs)</p>
					10					
					15	CH				
					20					
					22.0			SANDY SILT: olive brown.	22.0	
					25	ML				
					25.0			CLAY: gray, some silt.	25.0	
					30					
					35					
					40	CL				

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-112  
 PROJECT NAME Playa Vista DATE DRILLED 03/08/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
40					45					
					50					
					55			POORLY GRADED GRAVEL: The lithology was determined by the driller by the rough drilling conditions. As the augers were recovered from the hole, well rounded gravel from 1/2" to 1 1/2" were transported to the surface in a thick clay matrix that was likely to have been collected as the augers were withdrawn. Samples were to fluid and/or loose to be collected by the split spoon sampler.	52.0	<ul style="list-style-type: none"> <li>Portland Cement with 5% Bentonite Grout (0-47 ft bgs)</li> <li>Bentonite Grout (47-57 ft bgs)</li> <li>2" Diam. Sch 40, PVC Blank (0-60 ft bgs)</li> <li>#3 Lonestar Sand (57-65 ft bgs)</li> <li>2" Diam. Sch 40, PVC, 10-slot (60-65 ft bgs)</li> </ul>
					60	GP				
20					65			Total depth is 65 feet bgs.	65.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-153  
 PROJECT NAME Playa Vista DATE DRILLED 02/28/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 21.1 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 20.79 ft. MSL DEPTH TO WATER NM  
 LOGGED BY E. Schinsing GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0/ 0.0					5	SP		(FILL) SILTY SAND, LITTLE CLAY: grayish brown (2.5Y3/2), very fine to medium sand, wet.		<p>Portland Cement with 5% Bentonite Grout (0-63 ft bgs)</p> <p>2" Diam, Sch 40, PVC Blank (0-74 ft bgs)</p>
0.0/ 0.0					10			CLAY, LITTLE SAND: grayish brown (2.5Y3/2), non plastic, wet.	10.0	
0.0/ 0.0					15	CL				
3.0/ 0.0					20					
1.2/ 0.0					25	SC		CLAYEY SAND: gray (5Y4/2), fine to medium sand, very fluid, slight H <sub>2</sub> S odor.	25.0	
No Reading					30			Decrease in sand, increase in clay. Color change to grayish brown (2.5Y 4/2), medium to coarse sand, subrounded to rounded, high sphericity; pyrite and mica observed, saturated.	30.0	
0.0/ 0.0					35					
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-153  
 PROJECT NAME Playa Vista DATE DRILLED 02/28/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0/ 0.0										
0.0/ 0.0					45					
2.5/ 0.0					50	SC				
0.0/ 0.0					55					
0.0/ 0.0					60					
					65					
					69.0					<p>Portland Cement with 5% Bentonite Grout (0-63 ft bgs)</p> <p>2" Diam, Sch 40, PVC Blank (0-74 ft bgs)</p>
					70			GRAVEL: very coarse, 1/2-1" sub-rounded gravel, quartzitic in clay matrix as described from, cutting returned from auger bit during withdraw. Samples were too fluid and/or loose to be collected by the split spoon sampler.		
					75	GM				<p>Bentonite Pellets (63-73 ft bgs)</p> <p>#3 Lonestar Sand (73-79 ft bgs)</p>
					78.0					
					79.0	SP		SAND: driller noted softer drilling conditions. Actual samples could not be collected.		<p>2" Diam, Sch 40, PVC 10-slot (74-79 ft bgs)</p>

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10610-27775-NEWELLS	BORING/WELL NUMBER	MMW-175
PROJECT NAME	Playa Vista	DATE DRILLED	02/28/2000
LOCATION	Playa Vista Area D	CASING TYPE/DIAMETER	2" Sch 40 PVC
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	2" Sch 40 PVC/10 slot
SAMPLING METHOD	Cuttings	GRAVEL PACK TYPE	#3 Lonestar Sand
GROUND ELEVATION	20.10 ft. MSL	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	20.07 ft. MSL	DEPTH TO WATER	NM
LOGGED BY	E. Schinsing	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0/ 0.0					5	SM		SILTY SAND, TRACE CLAY: reddish brown (5YR4/3), very fine to fine, subrounded, angular, very moist.		<p>Cement with 5% Bentonite Grout (0-62 ft bgs)</p> <p>2" Diam. Sch 40, PVC Blank (0-74 ft bgs)</p>
0.0/ 0.0				10			SAND: brown (10YR3/3), medium to coarse, subrounded.	10.0		
0.0/ 0.0				15	SP					
0.0/ 0.0				20			CLAY, SOME SILT: dark brown (10YR3/3), very soft, non plastic, wet, trace pyrite.	20.0		
13.1/ 0.0				25	CL					
4.0/ 0.0				30			Some yellow staining.	30.0		
4.0/ 0.0				35			CLAYEY SAND: grayish brown (5Y 4/2), coarse sand, angular to subrounded.	35.0		
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-175  
 PROJECT NAME Playa Vista DATE DRILLED 02/28/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0/ 0.0										
0.0/ 0.0					45					
0.0/ 0.0					50	SC				
15.0/ 0.0					55					
28.0/ 0.0					60					
14.0/ 0.0					65					
					70			GRAVEL AND SAND: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler. Rounded to subrounded gravel was observed on auger upon withdraw.	68.0	2" Diam. Sch 40, PVC Blank (0-74 ft bgs)
					75	GP SP				Bentonite Pellets (62-72 ft bgs)
										#3 Lonestar Sand (72-79 ft bgs)
									79.0	2" Diam. Sch 40, PVC, 10-slot (74-79 ft bgs)
								Total depth is 79 feet bgs.		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-207  
 PROJECT NAME Playa Vista DATE DRILLED 03/07/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 17.80 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 17.61 ft. MSL DEPTH TO WATER NM  
 LOGGED BY SHR (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	SM	(FILL) SILTY SAND: brown.		5.0	<p>← Portland Cement with 5% Bentonite Grout (0-45 ft bgs)</p> <p>← 2" Diam, Sch 40, PVC Blank (0-57 ft bgs)</p>
					10		SAND / SILTY SAND: gray.		14.0	
					15	CL	CLAY, SOME SILT: gray.		16.0	
					20		SAND: gray.		29.0	
					25	SP			33.0	
					30	CL	CLAY: dark gray.		33.0	
					35		SILT: gray, micaceous.		40.0	
					40	ML				

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS

BORING/WELL NUMBER MMW-207

PROJECT NAME Playa Vista

DATE DRILLED 03/07/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	CL		CLAY, SOME SILT: greenish gray.		<p>Portland Cement with 5% Bentonite Grout (0-48 ft bgs)</p> <p>2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs)</p> <p>Bentonite Grout (51-63 ft bgs)</p> <p>#3 Lonestar Sand (63-70 ft bgs)</p> <p>2" Diam, Sch 40, PVC 10-slot (65-70 ft bgs)</p>
					55	CL		H <sub>2</sub> S odor.	55.0	
					62.0	GP		GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	62.0	
					70			Total depth is 70 feet bgs.	70.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-211  
 PROJECT NAME Playa Vista DATE DRILLED 3/7/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 17.78 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 17.63 ft. MSL DEPTH TO WATER NM  
 LOGGED BY E. Schinsing GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								(FILL) SANDY SILT: brown; fine to medium sand.		
					5	ML		SILT, LITTLE CLAY: red brown; slightly plastic	5.0	← Portland Cement with 5% Bentonite Grout (0-50 ft bgs)
					10	SP		SAND: reddish-brown; poorly graded; subrounded to rounded; wet.	10.0	← 2" Sch. 40, PVC Blank (0-61 ft bgs)
					15	ML		SILT: black; firm; slightly moist.	15.0	
					20	CL		CLAY, LITTLE SILT: black, slightly plastic, dry to moist, micaceous, pyrite present.	20.0	
					25					
					30					
					35			CLAY: gray, moist to wet.	35.0	
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-211  
 PROJECT NAME Playa Vista DATE DRILLED 3/7/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45.0	CL			45.0	
					50.0	SP		SAND WITH CLAY: gray; poorly graded; subangular to subrounded; very wet		
					56.0				56.0	
					60.0	GP		GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.		
					65.0					
					67.0			Total depth is 67 feet bgs.	67.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-226  
 PROJECT NAME Playa Vista DATE DRILLED 1/28/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 27.40 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% bentonite  
 TOP OF CASING 29.89 ft. MSL DEPTH TO WATER NM  
 LOGGED BY M. Hoffman GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS MMW-226 is located on top of an approximately 20 to 25 feet tall berm of fill material (surcharge).

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5			(FILL) SILT: very dark brown (7.5YR2.5/2), soft, moist, loose.		<p>← Portland Cement with 5% Bentonite Grout (0-67 ft bgs)</p> <p>← 2" Diam, Sch 40, PVC Blank (0-77 ft bgs)</p>
				10						
				15						
				20						
					25			(FILL) SAND: brown (7.5YR5/4), very fine to fine, subrounded to rounded, moderate to high sphericity.	25.0	
				30				(FILL) SILT: very dark brown (7.5YR2.5/2), soft, moist, loose.	30.0	
				35				CLAY: very dark gray (3/N), slightly plastic, soft.	35.0	
					40	CL			40.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS

BORING/WELL NUMBER MMW-226

PROJECT NAME Playa Vista

DATE DRILLED 1/28/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45.0	CL		Color change to gray (3/N).	45.0	<p>Portland Cement with 5% Bentonite Grout (0-67 ft bgs)</p> <p>2" Diam, Sch 40, PVC Blank (0-77 ft bgs)</p> <p>Bentonite Pellets (67-76 ft bgs)</p> <p>#3 Lonestar Sand (76-84 ft bgs)</p> <p>2" Diam, Sch 40, PVC 10-slot (77-82 ft bgs)</p>
					50.0	CL		Color change to very dark gray (5/N).	50.0	
					50.0			CLAYEY SAND: gray (5/N), saturated.	50.0	
					60.0	SC			60.0	
					72.0				72.0	
					75.0			POORLY GRADED SAND/GRAVEL: Conclusion drawn from the experience of the driller. The sand is too fluid to be collected with the split spoon. Coarse sand is mixed with clay on the bottom augers. The clay is likely to have been collected by the augers on the way out of the hole. Coarse sand and fine gravel (1/4" to 1/2" diameter, angular to rounded, low to moderate sphericity) were circulated from the casing during development.	75.0	
					80.0	SP GP			80.0	
					83.6			Total Depth is 83.6 feet bgs.	83.6	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-244  
 PROJECT NAME Playa Vista DATE DRILLED 02/29/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 20.10 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 20.06 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Lopez GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	CL		(FILL); SANDY CLAY: brown (10YR6/4), fine to medium sand, slightly plastic.		
					10			CLAY: dark brown, soft to firm, plastic, slight organic odor, moist.	10.0	<p>← Portland Cement with 5% Bentonite Grout (0-59 ft bgs)</p> <p>← 2" Diam, Sch 40, PVC Blank (0-70 ft bgs)</p>
					15					
					20	CL				
					25					
					27.0			Very soft, saturated.	27.0	
					30	CL				
					35			Color change to dark gray.	35.0	
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-244  
 PROJECT NAME Playa Vista DATE DRILLED 02/29/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	CL				
					50	CL				
					55					
					60	CL		Little fine sand.	60.0	
					65			POORLY GRADED SAND/GRAVEL: The sand and gravel interval was determined by the driller since the lithology is too saturated to be sampled by the split spoon.	65.0	
					70	GP				
					75			Total depth is 75 ft bgs.	75.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-272  
 PROJECT NAME Playa Vista DATE DRILLED 1/28/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 10.75 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% bentonite  
 TOP OF CASING 14.33 ft. MSL DEPTH TO WATER NM  
 LOGGED BY M. Hoffman GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					0	SP		(FILL) SAND: gray (2.5Y5/1), very fine to fine, subrounded to angular sand, moderate to high sphericity.		
					5	CL		CLAY: very dark grayish brown (2.5Y3/2), soft.	5.0	← Portland Cement with 5% Bentonite Grout (0-48 ft bgs)
					10	CL		Color change to very dark gray (3/N); slightly plastic, soft.	10.0	← 2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs)
					15	CL		Strong sulfur odor.	15.0	
					20	CL		Color change to gray (5/N); moderate sulfur odor.	20.0	
					25	CL			25.0	
					30					
					35	SC				
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-272  
 PROJECT NAME Playa Vista DATE DRILLED 1/28/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	SC		Increase in clay, decrease in sand.	45.0	<p>Portland Cement with 5% Bentonite Grout (0-48 ft bgs)</p>
					50	CL		CLAY WITH SAND: gray (5/N), very fine to fine sand, slightly plastic, soft.	50.0	<p>2" Diam, Sch 40, PVC Blank (0-61.5 ft bgs)</p>
					55			POORLY GRADED SAND/GRAVEL: The sand and gravel interval was determined by the driller since the lithology is so saturated to be sampled by the split spoon.	55.0	<p>Bentonite Pellets (48-59 ft bgs)</p>
					60	SP GP			60.0	<p>#3 Lonestar Sand (59-66.5 ft bgs)</p>
					65				65.0	<p>2" Diam, Sch 40, PVC 10-slot (61.5-66.5 ft bgs)</p>
					68.0			Total Depth is 68 ft bgs.	68.0	<p>Slough Bottom</p>

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-276  
 PROJECT NAME Playa Vista DATE DRILLED 1/27/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 12.41 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% bentonite  
 TOP OF CASING 15.57 ft. MSL DEPTH TO WATER NM  
 LOGGED BY M. Hoffman GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					0		(FILL) SANDY SILT: very dark grayish brown (10YR3/2); very fine to fine sand.	2.0	<p>Portland Cement with 5% Bentonite Grout (0-45 ft bgs)</p> <p>2" Diam, Sch 40, PVC Blank (0-57 ft bgs)</p>	
					2.5		(FILL) SAND: brown (10YR5/3), very fine to fine, angular to rounded, low to high sphericity.	5.0		
	10 15 20	18			5		CLAY: black (2.5/N); slightly plastic, firm.			
	3 5 7	18			10	CL				
	3 7 11	18			15	ML	SILT: dark gray (2.5Y4/1); slightly plastic, soft, micaceous.	15.0		
	3 5 5	18			20		SILT, LITTLE SAND: dark gray (2.5Y4/1), very fine to fine sand, trace sea shells.	20.0		
	3 4 9	18			25	ML				
	3 7 11	18			30					
					35		POORLY GRADED SAND WITH SILT: dark gray (2.5Y4/1); too fluid to be sampled by split spoon.	35.0		
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-276  
 PROJECT NAME Playa Vista DATE DRILLED 1/27/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	SP SM				
					51.0				51.0	
					55.0	GP		<p><b>POORLY GRADED GRAVEL:</b> The lithology was determined by the driller by the rough drilling conditions. As the augers were recovered from the hole, well rounded gravel from 1/2" to 1 1/2" were transported to the surface in a thick clay matrix that was likely to have been collected as the augers were withdrawn. Samples were to fluid and/or loose to be collected by the split spoon sampler.</p> <p><b>POORLY GRADED SAND:</b> The change in lithology was determined by the driller by the increased smoothness in the drilling. As the augers were recovered from the hole, coarse sand was transported to the surface in a thick clay matrix that was likely to have been collected as the augers were withdrawn.</p>	55.0	
					60	SP			62.0	
		0						<p>A split spoon sample was attempted several times at 62 feet bgs, however, the sediment was too fluid and/or loose to be collected by the split spoon.</p> <p>Total Depth is 62 ft bgs.</p>		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-319  
 PROJECT NAME Playa Vista DATE DRILLED 3/8/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 11.60 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite & Volclay  
 TOP OF CASING 13.63 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Basilio (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	SM		SILTY SAND: brown.		
					10	CL		SANDY CLAY: dark gray.	9.0	 ← Portland Cement with 5% Bentonite Grout (0-34 ft bgs) ← 2" Diam. Sch 40, PVC Blank (0-54 ft bgs)
					15			CLAY, SOME SILT: gray; medium plasticity, soft.	14.0	
					30	CL				
					35					 ← Volclay Grout (34-48 ft bgs)
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-319  
 PROJECT NAME Playa Vista DATE DRILLED 3/8/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45					
					47.0				47.0	
					50			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.		
					55	GP				
								Total depth is 60 feet bgs.	60.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-331  
 PROJECT NAME Playa Vista DATE DRILLED 03/07/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 10.50 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 13.15 ft. MSL DEPTH TO WATER NM  
 LOGGED BY E. Schinsing GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	SM		SILTY SAND: light grey to brownish grey, fine sand, very moist.		<p>← Cement with 5% Bentonite Grout (0-47 ft bgs)</p> <p>← 2" Diam. Sch 40, PVC Blank (0-59 ft bgs)</p>
					10			CLAY, SOME SILT: very dark grayish brown, moist, slight organic odor.	10.0	
					25	CL				
					35			SILTY SAND: saturated.	35.0	
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-331  
 PROJECT NAME Playa Vista DATE DRILLED 03/07/2000

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	SM			45.0	<ul style="list-style-type: none"> <li>Bentonite Pellets (47-57 ft bgs)</li> <li>2" Diam. Sch 40, PVC Blank (0-59 ft bgs)</li> </ul>
					50			WELL GRADED SAND WITH GRAVEL: dark gray and white, fine to coarse sand, rounded gravel, saturated.		<ul style="list-style-type: none"> <li>#3 Lonstar Sand (57-64 ft bgs)</li> <li>2" Diam. Sch 40, PVC, 10-slot (59-64 ft bgs)</li> </ul>
					55	SW				
					60			Total depth is 60 feet bgs.	60.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-362  
 PROJECT NAME Playa Vista DATE DRILLED 03/07/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 10.40 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 13.25 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Basilio (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_

REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					0			SAND: yellowish brown, fine sand.		
					5	SP				
					5			SILTY SAND: brown.	5.0	Cement with 5% Bentonite Grout (0-47 ft bgs)
					10	SM			10.0	
					10			SANDY CLAY: dark gray.		
					15	CL				
					17			CLAY: gray.	17.0	
					20	CL				
					24			Color change to light gray.	24.0	2" Diam. Sch 40, PVC Blank (0-59 ft bgs)
					25				25.0	
					30	CL				
					35			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	35.0	
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-362  
 PROJECT NAME Playa Vista DATE DRILLED 03/07/2000

*Continued from Previous Page*

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	GP				
					50					
					55				55.0	<ul style="list-style-type: none"> <li>← Bentonite Pellets (47-57 ft bgs)</li> <li>← 2" Diam. Sch 40, PVC Blank (0-59 ft bgs)</li> <li>← #3 Lonstar Sand (57-64 ft bgs)</li> <li>← 2" Diam. Sch 40, PVC, 10-slot (59-64 ft bgs)</li> </ul>
								Total depth is 55 feet bgs.		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10610-27775-NEWELLS	BORING/WELL NUMBER	MMW-509
PROJECT NAME	Playa Vista	DATE DRILLED	03/17/2000
LOCATION	Playa Vista Area D	CASING TYPE/DIAMETER	2" Sch 40 PVC
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	2" Sch 40 PVC/10 slot
SAMPLING METHOD	Cuttings	GRAVEL PACK TYPE	#3 Lonestar Sand
GROUND ELEVATION	11.25 ft. MSL	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	13.90 ft. MSL	DEPTH TO WATER	NM
LOGGED BY	R. Lopez	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					0			(FILL) CLAY, SOME SILT, TRACE SAND AND GRAVEL: reddish brown, slight plastic, firm to soft, damp, fine gravel and coarse sand.		
					5	CL				
					7.0			CLAY: dark brownish gray, soft, plastic (increasing moisture and softness with depth), damp to moist.		Portland Cement with 5% Bentonite Grout (0-51 ft bgs)
					10	CL				
					15			Color change to grayish brown, very soft, saturated, slight odor.		
					20	CL				
					22.0			SAND, SOME GRAVEL: dense, saturated (very few cuttings).		2" Diam. Sch 40, PVC Blank (0-60 ft bgs)
					25.0	SP				
					25	CL		CLAY: dark brownish gray, very soft, saturated, shell materials present, organic odor.		
					30			Color change to dark brownish gray.		
					35	CL				
					40	CL				

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-509  
 PROJECT NAME Playa Vista DATE DRILLED 03/17/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					42.0			POORLY GRADED SAND: saturated.	42.0	<p>← Bentonite Pellets (49-59 ft bgs)</p> <p>← #3 Lonestar Sand (59-65 ft bgs)</p> <p>← 2" Diam. Sch 40, PVC, 10-slot (60-65 ft bgs)</p>
					45	SP				
					50					
					51.0	CL		CLAY: dark brownish gray, very soft, saturated, shell material present, organic odor.	51.0	
					55.0				55.0	
					55			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.		
					60	GP				
					65			Total depth is 65 ft bgs.	65.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10610-27775-NEWELLS	BORING/WELL NUMBER	MMW-676
PROJECT NAME	Playa Vista	DATE DRILLED	3/9/2000
LOCATION	Playa Vista Area D	CASING TYPE/DIAMETER	2" Sch 40 PVC
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	2" Sch 40 PVC/10 slot
SAMPLING METHOD	Cuttings	GRAVEL PACK TYPE	#3 Lonestar Sand
GROUND ELEVATION	27.10 ft. MSL	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	27.01 ft. MSL	DEPTH TO WATER	NM
LOGGED BY	R. Basilio (Group Delta)	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	CL		CLAY WITH SAND AND GRAVEL: dark reddish brown, coarse sand, angular gravel, plastic, damp.	5.0	<p>Portland Cement with 5% Bentonite Grout (0-62 ft bgs)</p> <p>2" Diam. Sch 40, PVC Blank (0-74 ft bgs)</p>
					10	CL		CLAY, TRACE SAND AND GRAVEL: dark brown, plastic, soft, cohesive.	13.0	
					15	CL		CLAY WITH SAND: very dark brown, slightly plastic, cohesive, damp, soft.	15.0	
					20	SP		POORLY GRADED SAND: light yellow brown, mostly fine sand.	20.0	
					23	SC		CLAYEY SAND: brown, slightly cohesive, very moist; poorly graded, fine sand.	23.0	
					25	SP		POORLY GRADED SAND WITH CLAY: light yellow brown, fine sand, saturated.	27.0	
					29	CL		CLAY: very dark brown, soft, plastic, slight organic odor.	29.0	
					30	CL		Color change to very dark grayish brown to black, soft plastic, slight organic odor.	32.0	
					35	CL		Color changes to dark grey, very soft, very sticky, saturated.	40.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-676  
 PROJECT NAME Playa Vista DATE DRILLED 3/9/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45			Color changes to gray, soft, wet.		
					50					
					55	CL				
					60					
					65					
					68.0				68.0	<ul style="list-style-type: none"> <li>Portland Cement with 5% Bentonite Grout (0-62 ft bgs)</li> <li>2" Diam. Sch 40, PVC Blank (0-74 ft bgs)</li> <li>Bentonite Pellets (62-72 ft bgs)</li> </ul>
					70			POORLY GRADED GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were to fluid and/or loose to be collected by the split spoon sampler.		
					75	GP				
					80.0				80.0	<ul style="list-style-type: none"> <li>#3 Lonestar Sand (72-79 ft bgs)</li> <li>2" Diam. Sch 40, PVC, 10-slot (74-79 ft bgs)</li> <li>Sluff (79-80 ft bgs)</li> </ul>
								Total depth is 80 feet bgs.		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER	10610-27775-NEWELLS	BORING/WELL NUMBER	MMW-735
PROJECT NAME	Playa Vista	DATE DRILLED	3/1/2000
LOCATION	Playa Vista Area D	CASING TYPE/DIAMETER	2" Sch 40 PVC
DRILLING METHOD	Hollow Stem Auger	SCREEN TYPE/SLOT	2" Sch 40 PVC/10 slot
SAMPLING METHOD	Cuttings	GRAVEL PACK TYPE	#3 Lonestar Sand
GROUND ELEVATION	21.26 ft. MSL	GROUT TYPE/QUANTITY	Portland Cement/5% Bentonite
TOP OF CASING	21.24 ft. MSL	DEPTH TO WATER	NM
LOGGED BY	R. Lopez	GROUND WATER ELEVATION	
REMARKS			

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					5	CL		SANDY CLAY: well-graded; nonplastic due to sand content; soft; slightly cohesive		
					10	SC		CLAYEY SAND: dark reddish brown, medium to fine sand, poorly graded; non-cohesive.	9.0	<p>Portland Cement with 5% Bentonite Grout (0-54 ft bgs)</p> <p>2" Diam. Sch 40, PVC Blank (0-65 ft bgs)</p>
					15	CL		CLAY: brown; plastic to slightly plastic; dry to damp	10.0	
					20	SP		POORLY GRADED SAND: brown; trace silt; dry.	15.0	
					25	SC		CLAYEY SAND: dark brown	19.0	
					30	CL		CLAY: dark grayish brown to dark brown; plastic; firm to soft; no odor.	20.0	
					35	CL		Color change to black; soft; highly organic; slight odor; increasing moisture with depth.	22.0	
					40	CL		Color change to dark gray; moist, very soft. Trace sand.	33.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-735  
 PROJECT NAME Playa Vista DATE DRILLED 3/1/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	CL				
					50					
					55					
					60			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	60.0	
					65	GP				
					70				70.0	
								Total depth is 70 feet bgs.		

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-738  
 PROJECT NAME Playa Vista DATE DRILLED 3/9/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 20.40 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 20.33 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Basilio (Group Delta) GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (Inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0					0			CLAYEY SAND: brown, moist.		
					5	SC				
20					10			CLAY: grayish brown, moist, firm.	9.0	
					10	CL				
40					15			SILTY SAND: yellowish brown, moist, fine to medium grained sand.	14.0	
					15	SM				
40					20			SANDY CLAY: brown.	19.0	
					20					
20					25					
					25	CL				
0					30			CLAY, SOME SILT: gray, wet, soft, medium plasticity.	30.0	
					30					
0					35					
					35					
0					40					
					40					

← Portland Cement with 5% Bentonite Grout (0-47 ft bgs)  
 ← 2" Diam. Sch 40, PVC Blank (0-64 ft bgs)

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS

BORING/WELL NUMBER MMW-738

PROJECT NAME Playa Vista

DATE DRILLED 3/9/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0						CL				
0					45					
0					50					
20					55			GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sampler.	55.0	
40					60	GP				
								Total depth is 65 feet bgs.	65.0	

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-921  
 PROJECT NAME Playa Vista DATE DRILLED 3/2/2000  
 LOCATION Playa Vista Area D CASING TYPE/DIAMETER 2" Sch 40 PVC  
 DRILLING METHOD Hollow Stem Auger SCREEN TYPE/SLOT 2" Sch 40 PVC/10 slot  
 SAMPLING METHOD Cuttings GRAVEL PACK TYPE #3 Lonestar Sand  
 GROUND ELEVATION 16.66 ft. MSL GROUT TYPE/QUANTITY Portland Cement/5% Bentonite  
 TOP OF CASING 16.47 ft. MSL DEPTH TO WATER NM  
 LOGGED BY R. Lopez GROUND WATER ELEVATION \_\_\_\_\_  
 REMARKS \_\_\_\_\_

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		(FILL) CLAY, TRACE SAND: dark reddish brown; nonplastic.		
					5	CL		SANDY CLAY: dark brownish gray; very strong organic odor; construction debris (e.g. broken up asphalt).	4.0	<p>← Portland Cement with 5% Bentonite Grout (0-48 ft bgs)</p> <p>← 2" Diam. Sch 40, PVC Blank (0-60 ft bgs)</p>
					10	SP		POORLY GRADED SAND, TRACE SILT: dark yellowish brown becoming darker with depth to a dark brownish gray; fine to medium sand; dry to slightly damp.	9.0	
					15					
					20	CL		CLAY: black; plastic; damp; strong organic odor.	16.0	
					25			Color change to dark gray; slightly organic; very moist.	23.0	
					30	CL		Increase in water content.	30.0	
					35			No odor; no organic debris	35.0	
					40					

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# BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10610-27775-NEWELLS BORING/WELL NUMBER MMW-921  
 PROJECT NAME Playa Vista DATE DRILLED 3/2/2000

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. BGL)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
					45	CL				
					50			POORLY GRADED GRAVEL: The lithology was determined by the driller by the rough drilling conditions. Samples were too fluid and/or loose to be collected by the split spoon sample.	50.0	<p>Portland Cement with 5% Bentonite Grout (0-48 ft bgs)</p> <p>Bentonite Pellets (48-59 ft bgs)</p> <p>2" Diam. Sch 40, PVC Blank (0-60 ft bgs)</p>
					55					
					60	GP				
					65				65.0	<p>#3 Lonestar Sand (59-65 ft bgs)</p> <p>2" Diam. Sch 40, PVC, 10-slot (60-65 ft bgs)</p>
								Total depth is 65 feet bgs.		

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