SFUND RECORDS CTR
2067744

"Wallin, Sharon"
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01/12/2005 02:44 PM

To Christopher Lichens/R9/USEPA/US@EPA, tperina@ch2m.com, cmclaugh@demaximis.com, Chuck McLaughlin <chuckrmc@earthlink.net>
cc "Chamberlin, David" <ChamberlinDC@cdm.com>
bcc
Subject Revised Phase 1a Addendum Report - Part 3 (Lith. Logs and Table 3-1)

History: This message has been forwarded.

Attached are new and revised lith. logs and Table 3-1 (well construction details).

PZ-2.pdf B-3.pdf B-4.pdf GP-1.pdf GP-2.pdf GP-3.pdf GP-3A.pdf GP-4.pdf GP-5.pdf GP-6.pdf GP-7.pdf GP-8.pdf
OW-8B REV.pdf PZ-1.pdf Table 3-1.xls

CDM
18581 Teller Avenue, Suite 200
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(949) 752-5452
(949) 752-1307 (FAX)

BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a
PROJECT NAME Omega Chemical
LOCATION 12511 Putnam St, Whittier, CA
DRILLING METHOD Sonic
SAMPLING METHOD Continuous Core
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY T. Titus
BORING/WELL NUMBER B-2/PZ-2
DATE DRILLED 11/7/03
CASING TYPE/DIAMETER 2" Diameter Sch 40 PVC
SCREEN TYPE/SLOT 2" Diameter Sch 40 PVC / 0.020"
GRAVEL PACK TYPE Lapis Lustre #2/12
GROUT TYPE/QUANTITY Portland Cement / 5% Bentonite
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)
REMARKS Well is on west side of Putnam St., north of Washington Blvd.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								Concrete is 7" thick	0.6
								Roadbase	1.0
								SILT WITH SAND: reddish brown; 85% silt; 10% sand, very fine grained, rounded; 5% clay; medium density, moist, no odor.	
		60			5				
						ML			
11		60			10				
								SILT AND SAND: reddish brown; 65% silt; 30% sand, very fine grained, round, poorly graded; 5% gravel, fine grained, round; medium density, moist, no odor. SILT WITH SAND AND CLAY: reddish brown; 60% silt; 20% sand, very fine grained, round, poorly graded; 20% clay; low plasticity, medium density, moist, no odor. SILT WITH CLAY: reddish brown; 90% silt; 10% clay; high density, moist, no odor.	
12		60			15				
									18.0
						ML		SILT AND SAND WITH GRAVEL: reddish brown; 50% silt; 40% sand, very fine to coarse grained, subround to round, well graded; 10% gravel, fine to coarse grained, subround, well graded; trace of cobbles, subround to round, maxium diameter of 0.5 inches; medium density,	
					20				20.0

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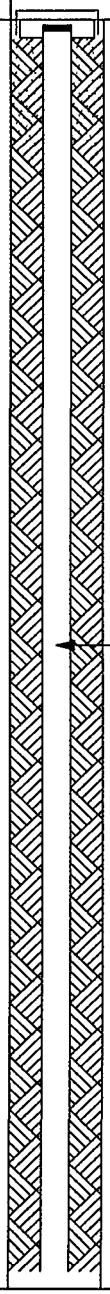
WELL DIAGRAM



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW Phase1a **BORING/WELL NUMBER** B-2/PZ-2
PROJECT NAME Omega Chemical **DATE DRILLED** 11/7/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
13		60						moist, no odor. SILT AND CLAY: reddish brown; 60% silt, 40% clay; moderate plasticity, high density, moist, no odor.		
								SILT WITH SAND AND CLAY: reddish brown; 60% silt; 20% sand, very fine grained, round, poorly graded, 20% clay; high density, moist, no odor.		
23		60			25					Portland Cement / 5% Bentonite Grout
						ML				
19		60			30			SILT AND SAND: reddish brown; 70% silt; 30% sand, very fine to fine grained, round, poorly graded; medium density, moist, no odor.		
								SILT WITH SAND: reddish brown; 90% silt; 10% sand, very fine grained, round, poorly graded; high density, moist, no odor.		
199		60			35					
									37.5	
						SM		SAND AND SILT: tan; 60% sand, very fine to fine grained, subround to round, poorly graded; 40% silt; moist, no odor.		
									40.0	
104		60			40			SILT WITH SAND AND CLAY: reddish brown, 80% silt; 10% sand, very fine grained, round, poorly graded, 10% clay, high density, moist, no odor.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1 GW Phase1a **BORING/WELL NUMBER** B-2/PZ-2
PROJECT NAME Omega Chemical **DATE DRILLED** 11/7/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						ML				
55		30			45					
								SAND AND SILT· tan; 60% sand, very fine to fine grained, round, poorly graded; 40% silt, dry, no odor.	46 0	
						SM				
133		60			50					
								SAND WITH SILT: reddish brown; 80% sand, very fine to fine grained, round, poorly graded, 20% silt, moist, no odor.	52 0	
17		60			55					Uncoated Hydrated Bentonite Chips
10		60			60			SAND light brown; 100% sand, very fine to fine grained, round, poorly graded; slightly cemented, dry, no odor.		
						SP				
20		48			65					

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PROJECT NUMBER 10500-37240-T1 GW Phase1a **BORING/WELL NUMBER** B-2/PZ-2
PROJECT NAME Omega Chemical **DATE DRILLED** 11/7/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U S C S	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
8 0		36						SAND olive, 100% sand, fine grained, subround to round, poorly graded, wet, no odor		
								SAND olive, 100% sand, fine to medium grained, subround to round, poorly graded, wet, no odor	70 0	
30		36			70	CL		CLAY AND SILT yellowish brown, 70% clay, 30% silt, high plasticity, high density, moist, no odor		#2/12 Lapis Lustre Sand; 2" Diameter, SCH 40 PVC, 0 020" Slotted Casing
3 0		60			75					
									77 0	
						ML		SILT AND SAND WITH GRAVEL AND CLAY yellowish brown, 50% silt, 30% sand, fine grained, subround to round, 10% gravel, fine to coarse grained, subround to round, 10% clay, medium density, moist, no odor		
0 0		60			80					
									81 0	
						SM		SAND WITH SILT, GRAVEL, AND CLAY yellowish brown, 50% sand, fine to coarse grained, subround to round, well graded, 20% silt, 20% gravel, fine to coarse grained, subround to round, well graded, 10% clay, moist to wet, no odor	82 0	
						GW GM		GRAVEL, SILT, AND SAND brown, 40% gravel, fine to coarse grained, subround to round, well graded, 30% sand, fine to coarse grained, round to subround, well graded, 30% silt, trace of cobbles, maximum diameter of 6 inches, high density, moist, no odor		
1 0		60			85				85 0	
								Total Depth is 85 feet below ground surface (bgs) Groundwater was encountered at approximately 68 feet bgs		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a
BORING/WELL NUMBER B-3
PROJECT NAME Omega Chemical
DATE DRILLED 11/4/03
LOCATION 12511 Putnam St, Whittier, CA
CASING TYPE/DIAMETER NA
DRILLING METHOD Sonic
SCREEN TYPE/SLOT NA
SAMPLING METHOD Continuous Core
GRAVEL PACK TYPE NA
GROUND SURFACE ELEVATION (FT MSL) NA
GROUT TYPE/QUANTITY Portland Cement / 5% Bentonite
TOP OF CASING ELEVATION (FT MSL) NA
STATIC WATER LEVEL (FT BELOW TOC) NM
LOGGED BY T. Titus
GROUND WATER ELEVATION (FT MSL)
REMARKS Well is on west side of Putnam St., north of Washington Blvd.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete is 7" thick	0.6	
								Roadbase	1.0	
								SILT WITH CLAY: reddish brown; 90% silt; 10% clay; dry, no odor.		
2.0		60			5					No Well Was Constructed.
6.9		24						SILT AND CLAY: reddish brown; 70% silt; 30% clay; low plasticity, high density, dry, no odor.		
								SILT: reddish brown; 95% silt; 5% gravel, coarse grained, subangular; trace of cobbles, maximum 1 inch diameter; medium density, dry, no odor.		
14		36			10	ML		SILT AND CLAY: reddish brown; 70% silt; 30% clay; low plasticity, low density, moist, no odor.		
55		24								
								SILT AND CLAY: reddish brown; 70% silt; 30% clay; non-plastic, high density, dry, no odor.		
3.0		36			15			SILT: reddish brown; 95% silt; 5% clay; non-plastic, medium density, dry, no odor.		
3.0		24								
					20				20.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-3
PROJECT NAME Omega Chemical **DATE DRILLED** 11/4/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
22		36								
5.0		24						SILT WITH CLAY: reddish brown; 80% silt; 20% clay; low plasticity, low density, moist, no odor.		
9.0		36			25			SILT: reddish brown; 100% silt; high density, dry, no odor.		
6.0		24								
14		36			30	ML				
16		36								
14		24			35			SILT WITH CLAY: reddish brown; 80% silt; 20% clay; low plasticity, medium density, dry, no odor.		
19		24						SILT: brown; 100% silt; high density, dry, no odor.		
9.0		36			40			SILT WITH SAND: reddish brown; 80% silt; 20% sand, very fine to fine grained, round; low density, dry, no odor.		

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PROJECT NUMBER 10500-37240-T1.GW Phase1a **BORING/WELL NUMBER** B-3
PROJECT NAME Omega Chemical **DATE DRILLED** 11/4/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
30		36						SILT WITH CLAY: dark brown. 90% silt; 10% clay; low plasticity, high density, dry, no odor.		
									45 0	
18		24			45	SM		SAND WITH SILT: orangish brown; 90% sand, fine grained, round, poorly graded; 10% silt; dry, no odor.		
									48.0	
								SAND· tan; 100% sand, very fine to fine grained, round, poorly graded, slightly cemented, dry, no odor.		
15		42			50	SP		SAND: tan; 95% sand, very fine to fine grained, round, poorly graded; 5% gravel, coarse grained, subround; dry, no odor.		
									52.5	
						SM		SAND AND SILT: tan; 50% sand, very fine grained, round, poorly graded; 50% silt; dry, no odor.	53.0	
						SP		SAND: tan; 95% sand, very fine to fine grained, round, poorly graded; 5% gravel, coarse grained, subround; dry, no odor.		
16		48							54.5	
					55	SW		SAND WITH GRAVEL: orangish brown; 90% sand, fine to coarse grained, subround to round, well graded; 10% gravel, fine to coarse grained, subround to round; dry, no odor.		
								SAND AND SILT. tan; 50% sand, very fine grained, round, poorly graded, 50% silt; slightly cemented, dry, no odor.	57.0	
20		36				SP			57.5	
						SM		SAND WITH GRAVEL AND SILT: brown; 80% sand, very fine to fine grained, round, poorly graded; 10% gravel, fine grained, subround to subangular; 10% silt; dry, no odor.	58.0	
						SW		SAND AND SILT: tan; 50% sand, very fine grained, round, poorly graded, 50% silt; dry, no odor		
								SAND WITH GRAVEL: brown; 90% sand, medium to coarse grained, subround to round, well graded; 10% gravel, fine grained, subround to round; grain size descreases with depth, dry, no odor.	59.5	
14		36			60	SM			60.5	
								SAND AND SILT: tan; 60% sand, very fine to medium grained, round, well graded; 40% silt; slightly cemented, dry, no odor.		
								SAND WITH GRAVEL: brown; 80% sand, fine to coarse grained, subround to round, well graded; 20% gravel, fine to medium grained, subround to round, well graded; dry, no odor.		
11		36				SW		SAND WITH SILT: tan; 85% sand, very fine to coarse grained, subround to round, well graded; 10% silt; 5% gravel, medium to coarse grained, subround to round; slightly cemented, dry, no odor.		
					65					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1 GW.Phase1a **BORING/WELL NUMBER** B-3
PROJECT NAME Omega Chemical **DATE DRILLED** 11/4/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						SW		SAND AND GRAVEL: brown; 70% sand, fine to coarse grained, subround to round, well graded; 30% gravel, fine to coarse grained, subround to round, well graded; dry, no odor.	67.0	
						ML		SILT: dark brown; 100% silt, high density, dry, no odor.	68.0	
						SM		SILT AND SAND: orangish brown; 60% silt, 35% sand, very fine to fine grained, subround to round, poorly graded; 5% gravel, medium to coarse grained, subround to round; high density, dry, no odor	69.5	
		84			70	SW SM		SAND, SILT, AND GRAVEL: brown; 35% sand, fine to coarse grained, subangular to round, well graded; 35% silt; 30% gravel, fine to coarse grained, subangular to round, well graded; trace of cobbles, round, maximum diameter of 2 inches; high density, moist, no odor.	70.0	
						SM		SAND AND SILT: brown; 60% sand, fine to coarse grained, subangular to round, well graded; 40% silt; trace of gravel, fine grained, subangular to round; moist, no odor.	73.0	
5.0		60			75	ML		SILT AND CLAY: brown; 55% silt, 30% clay; 5% gravel, fine to medium grained, round; high plasticity, high density, moist, no odor.	75.0	
						ML		SILT AND SAND WITH GRAVEL: brown; 50% silt; 40% sand, very fine to fine grained, subround to round, poorly graded; 10% gravel, medium to coarse grained, subround to round, poorly graded; high density, moist, no odor.	78 0	
11		60			80	ML		SILT AND SAND WITH GRAVEL: yellowish brown; 50% silt; 40% sand, very fine to fine grained, subround to round, poorly graded; 10% gravel, medium to coarse grained, subround to round, poorly graded; high density, wet, no odor.	83.5	
						ML		SILT AND CLAY: yellowish brown; 70% silt; 30% clay; trace of sand, fine to medium grained, subround; high plasticity, high density, wet, no odor.	85.0	
2.0		60			85			Total Depth is 85 feet below ground surface (bgs). Groundwater was encountered at 67.4 feet bgs.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a
PROJECT NAME Omega Chemical
LOCATION 12511 Putnam St, Whittier, CA
DRILLING METHOD Sonic
SAMPLING METHOD Continuous Core
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY T. Titus
BORING/WELL NUMBER B-4
DATE DRILLED 11/6/03
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Portland Cement / 5% Bentonite
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)
REMARKS Well is on west side of Putnam St., north of Washington Blvd.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete is 7" thick	0.6	
								Roadbase	1.0	
								SILT: reddish brown; 90% silt; 5% sand, medium to coarse grained, rounded; 5% clay; high density, dry, no odor.		
		60			5					No Well Was Constructed.
						ML				
4.0		60			10					
								SILT WITH CLAY: reddish brown; 80% silt; 20% clay; non-plastic, medium density, dry, no odor.		
3.0		60			15					
						ML		SILT AND GRAVEL: orange; 70% silt; 30% gravel, fine to coarse grained, subround, well graded; trace cobbles, maximum diameter of 1 inch; high density, dry, no odor.	16.0	
								SILT WITH SAND: reddish brown; 90% silt; 10% sand, very fine to medium sand, subround; medium density, dry, no odor.	17.0	
					20					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-4
PROJECT NAME Omega Chemical **DATE DRILLED** 11/6/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
2.0		60				ML				
									24.0	
								SILT AND CLAY WITH SAND: reddish brown; 40% silt; 40% clay; 20% sand, very fine to fine grained, round, poorly graded; moderate plasticity, medium density, dry, no odor.		
5.0		60			25			SILT AND CLAY: reddish brown; 60% silt; 40% clay; moderate plasticity, medium density, dry, no odor.		
						ML				
3.0		60			30					
									31.0	
								SILT WITH SAND: brown; 90% silt; 10% sand, very fine to fine grained, round; high density, dry, no odor.		
						ML				
9.0		60			35					
									36.0	
								CLAY AND SILT: reddish brown; 60% clay; 40% silt; high plasticity, medium density, moist, no odor.		
						CL				
									39.0	
						SM		SAND AND SILT: reddish brown; 70% sand, very fine to fine grained, round, poorly graded; 30% silt; low density, moist, no odor.		
									40.0	
17		60			40			SILT WITH CLAY: reddish brown; 85% silt; 10% clay; 5% sand, very fine to fine grained, round; high density, dry, no odor.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-4
PROJECT NAME Omega Chemical **DATE DRILLED** 11/6/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
25		30			45					
26		60			50	ML		SILT AND SAND: reddish brown; 60% silt, 40% sand, very fine to fine grained, round, poorly graded; dry, no odor.		
87		60			55					
						SM		SAND AND SILT: light brown; 70% sand, very fine to fine grained, round, poorly graded; 30% silt; slightly cemented, dry, no odor.	59.0 59 5	
24		60			60	SP		SAND WITH SILT: reddish brown; 90% sand, very fine to fine grained, round, poorly graded; 20% silt; slightly cemented, dry, no odor.		
24		48			65			SAND: light brown; 95% sand, medium grained, round, poorly graded; 5% silt; moist, no odor.	64.5	
						SM		SAND AND SILT: tan; 80% sand, very fine to fine grained, round, poorly graded, 20% silt; slightly cemented, dry, no odor.	65.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW Phase1a **BORING/WELL NUMBER** B-4
PROJECT NAME Omega Chemical **DATE DRILLED** 11/6/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								SAND: light brown; 100% sand, fine to medium grained, round, poorly graded; slightly cemented, moist, no odor.		
9.0		48						SAND: reddish brown; 95% sand, fine to medium grained, round, poorly graded; 5% silt, moist, no odor.		
					70	SP				
									75.0	
21		84			75			SILT AND SAND WITH CLAY: orangish brown, 40% silt; 35% sand, very fine to fine grained, subround to round; 20% clay; 5% gravel, fine to medium grained, subround to round; low plasticity, medium density, moist, no odor.		
						ML		SILT AND SAND WITH CLAY: orangish brown; 55% silt; 30% sand, very fine to fine grained, subround to round; 10% clay; 5% gravel, medium to coarse grained, subround to round; non-plastic, high density, moist, no odor.		
									80 0	
5.0		60			80	SW		SAND WITH GRAVEL: brown, 80% sand, fine to coarse grained, subround to round, well graded; 20% gravel, fine to coarse grained, subround to round, well graded, trace of cobbles, maximum diameter of 1 inch; wet, no odor.	80.5	
						ML		SILT WITH SAND: yellowish brown; 80% silt, 15% sand, fine grained, round, poorly graded, 5% gravel, fine grained, round, high density, moist, no odor.		
								SILT WITH SAND AND GRAVEL: yellowish brown, 70% silt; 15% sand, fine to coarse grained, subround to round, well graded; 10% gravel, fine to coarse grained, subround to round, well graded; trace of cobbles, maximum diameter of 2 inches; high density, moist, no odor.		
									85.0	
1.0		60			85			Total Depth is 85 feet below ground surface (bgs). Groundwater was encountered at approximately 68 feet bgs.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2 OSS FIELD
PROJECT NAME Omega Chemical
LOCATION 12504 East Whittier Blvd , Whittier CA
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY R Douglas
REMARKS

BORING/WELL NUMBER GP-1
DATE DRILLED 10/27/03
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) 77 00
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U S C S	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete thickness is 6 inches	0 5	
					5	CL		SILTY CLAY very dark greyish brown (10 YR 3/2), 95% silt - clay, 5% gravel, coarse grained, subangular to subround, low plasticity, soft, dry to moist, no odor	8 0	No well was constructed
						SP		SAND WITH GRAVEL yellowish brown (10 YR 5/4), 80% sand, fine to medium grained, subangular to angular, 20% gravel, coarse grained, subangular to angular, dry, no odor	9 0	
1 4/0 7		48			10			SILTY CLAY very dark greyish brown (10 YR 3/2), 95% silt - clay, 5% gravel, coarse grained, subangular to subround, low plasticity, soft, dry to moist, no odor UV = Numerous grains and streaks - short wave		
2 1/0 7		48			15	CL		SILTY CLAY brown (10 YR 4/3), 95% silt - clay, 5% gravel, coarse grained, subangular to subround, low plasticity, soft, moist, no odor UV = Numerous grains - short wave		
1 4/0 7		60			20					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-1
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								UV = Isolated streaks and grains - short wave.		
									21.0	
						SP		SAND WITH GRAVEL: yellowish brown (10 YR 5/4); 80% sand, fine to medium grained, subangular to angular; 20% gravel, coarse grained, subangular to angular; dry, no odor	21.5	
								SILTY CLAY: brown (10 YR 4/3); 100% silt - clay; trace of gravel, coarse grained, subangular to subround; low plasticity, soft, moist, no odor.		
1.4/0.7		60			25			UV = Isolated streak - short wave.		
						CL		SILTY CLAY: brown (10 YR 4/3), 95% silt - clay, 5% gravel, coarse grained, subangular to subround; low plasticity, soft, moist, no odor.		
								SILTY CLAY. brown (10 YR 4/3); 95% silt - clay, 5% gravel, coarse grained, subangular to subround; low plasticity, soft, moist, no odor.		
1.4/0.7		60			30			UV = Isolated grains - short wave only.		
									31.0	
						SP		SAND WITH GRAVEL: yellowish brown (10 YR 5/4); 80% sand, fine to medium grained, subangular to angular; 20% gravel, coarse grained, subangular to angular; dry, no odor.	31.5	
						CL		SILTY CLAY: brown (10 YR 4/3); 95% silt - clay; 5% gravel, coarse grained, subangular to subround; low plasticity, soft, moist, no odor.	33.0	
						SP			33.5	
						CL		SAND WITH GRAVEL: yellowish brown (10 YR 5/4); 80% sand, fine to medium grained, subangular to angular; 20% gravel, coarse grained, subangular to angular; dry, no odor.	34.0	
						SP			34.5	
1.4/0.7		60			35			SILTY CLAY: brown (10 YR 4/3); 95% silt - clay; 5% gravel, coarse grained, subangular to subround; low plasticity, soft, moist, no odor.		
								SAND WITH GRAVEL: yellowish brown (10 YR 5/4); 80% sand, fine to medium grained, subangular to angular; 20% gravel, coarse grained, subangular to angular; dry, no odor.		
						CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, no odor.		
								UV = Isolated grains - short wave only		
1.4/0.7		60			40			UV = Streaks with long and short wave.		
									41.0	
						SP		SAND: yellowish brown (10 YR 5/4); 100% sand, fine to medium grained, poorly graded; dry to moist, no odor.		
									42.0	
						CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, no odor.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2 OSS FIELD **BORING/WELL NUMBER** GP-1
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U S C S	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								SILT brown (10 YR 4/3), 100% silt, soft, moist, no odor	43 0	
1 4/0 7		60			45	ML		UV = Few grains - short wave		
								CLAY brown (10 YR 4/3), 100% clay, stiff, low to moderate plasticity, moist, no odor	47 0	
2 9/0 7		60			50	CL		UV = Few grains - short wave		
								CLAY brown (10 YR 4/3), 100% clay, very stiff, moist, no odor		
2 9/0 7		36			55			UV = Nothing observed		
						SP		SAND WITH GRAVEL yellowish brown (10 YR 5/4), 80% sand, fine to medium grained, subangular to angular, 20% gravel, coarse grained, subangular to angular, dry, no odor	56 0 56 5	
						CL		CLAY WITH SILT brown (10 YR 4/3), 80% clay, 20% silt, stiff, moist, no odor		
5 1/0 7		60			60			UV = Few grains - short wave		
						ML		SILT WITH SAND yellowish brown (10 Y 5/4), 70% silt, soft, 30% sand, no odor	61 0	
								CLAY WITH SILT yellowish brown (10 YR 6/7), 80% clay, 20% silt, stiff, moist, no odor	62 0	
5 1/0 7		60			65			UV = Grains and streaks - short wave		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-1
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		CLAY WITH SILT: yellowish brown (10 YR 6/7); 80% clay; 20% silt; stiff, moist, PCE odors.		
14.5/0.7		60			70			UV = Streaks and specks - short wave.		
								CLAY WITH SILT: yellowish brown (10 YR 6/7); 80% clay; 20% silt; stiff, moist, mild chlorinated odor.		
29.1/0.7		60			75			UV = Streaks and grains - short wave.		
						ML		SILT WITH GRAVEL: brown (10 Y 4/3); 60% silt, soft; 25% gravel, coarse grained, subangular; 15% sand, fine grained; wet, mild odor.	77.0	▼
						CL		CLAY WITH SILT: yellowish brown (10 YR 6/7); 80% clay; 20% silt; very stiff, moist, mild chlorinated odor.	78.5	
2.9/0.7		48			80			UV = small grains - short wave.		
2.9/2.9		60			85			UV = Small grains - short wave.	85.0	

Total depth is 85 feet below ground surface (bgs).
Groundwater was encountered at 77 feet bgs.

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
PROJECT NAME Omega Chemical
LOCATION 12504 East Whittier Blvd., Whittier CA
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY R. Douglas
REMARKS

BORING/WELL NUMBER GP-2
DATE DRILLED 10/27/03
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) 78.50
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete thickness is 6 inches.	0.5	
						ML		CLAYEY SILT: very dark greyish brown (10 YR 3/2); 100% clayey silt; low plasticity, slightly cohesive, dry to moist, no odor.		No well was constructed.
					5			CLAYEY SILT: dark yellowish brown (10 YR 4/4); 100% clayey silt; slightly plastic, slightly cohesive, dry to moist, no odor.	8.0	
								White Rock	8.5	
						SM		SILTY SAND WITH GRAVEL: yellowish brown (10 YR 5/4); 60% fragments; 20% silt; 20% gravel, white fragments, maximum diameter to 1 inch.	9.0	
5.8/0.7		48			10			CLAYEY SILT: dark yellowish brown (10 YR 4/4); 100% clayey silt; moderate plasticity, slightly cohesive, dry to moist, no odor. UV = Numerous grains - short wave.		
						ML				
5.0/0.7		54			15			UV = Numerous grains - short wave.	16.0	
						CL		CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, no odor.		
2.9/0.7		60			20					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-2
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								UV = Isolated grains - short wave.		
						ML		SILT WITH CLAY: dark brown (10 YR 3/3); 60% silt; 30% clay; 10% sand, fine to coarse grained; trace gravel; dry to moist, no odor.	21.0	
									24.0	
5.8/2.0		60			25	CL		CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, damp, no odor. UV = Isolated grains - short wave.		
8.7/2.9		60			30			UV = Isolated grains - short wave.		
						CL		CLAY WITH SAND AND GRAVEL: brown (10 YR 4/3); 60% clay; 20% sand, coarse grained; 20% gravel, fragmented, maximum diameter is 1.5 inches; moist.	31.5 32.0	
						ML		SILT WITH CLAY: brown (10 YR 4/3); 65% silt; 25% clay; 10% sand, fragements; moderate plasticity, moist to wet, no odor.		
5.8/0.0		60			35			CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, slight odor. UV = Isolated specks - short wave. CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, no odor.	35.0	
5.8/0.0		60			40	CL		UV = Few grains - short wave.		
						CL		GRAVELLY CLAY: brown (10 YR 4/3); 70% clay; 30% gravel, subangular to angular, diameter to 1 inch, fragmented; moist, no odor. SILT WITH CLAY: brown (10 YR 4/3); 50% silt; 40% clay;	41.5 42.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-2
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						ML		10% sand, fragements; moderate plasticity, moist, no odor.		
8.7/2.9		60			45			CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, no odor.	45.0	
								UV = Numerous streaks and specks - short and long wave.		
14.5/ 0.0		60			50			UV = Streaks and grains - short wave.		
5.8/0.0					55			UV= Streaks - short wave.		
								CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, slight odor.		
2.9/0.0					60			UV = Isolated grains - short wave.		
						CL		CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, no odor.		
66.1/ 0.0		60			65			UV = Isolated grains - short wave.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-2
PROJECT NAME Omega Chemical **DATE DRILLED** 10/27/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								CLAY WITH SILT: brown (10 YR 3/3); 75% clay; 25% silt; moderate plasticity, laminations, moist, slight odor.		
30.6/ 0.0		60			70			CLAY WITH SILT: brown (10 YR 3/3); 70% clay; 20% silt; 10% fragments; moderate plasticity, laminations, moist, no odor. UV = Isolated grains - short wave. CLAY WITH SILT: brown (10 YR 3/3); 85% clay; 15% silt; trace of gravel; very stiff, moderate plasticity, laminations, moist, moderate chlorinated hydrocarbon odor.		
0.0/0.0		36			75			UV = Isolated grains and streaks - short wave.		
10.2/ 0.0								CLAY WITH SILT: brown (10 YR 3/3); 85% clay; 15% silt; trace of gravel; very stiff, moderate plasticity, laminations, moist, strong chlorinated hydrocarbon odor.		
0.0/0.0						CL		UV = Abundant specks and streaks - short wave.	78.5	▼
0.0/0.0		60			80			CLAY WITH SAND: brown (10 YR 4/3); 70% clay; 20% sand, very fine to coarse grained, subround to subangular, poorly graded; 10% silt; trace gravel, fine grained; wet, slight odor.	79.5	
						CL		CLAY WITH SILT: brown (10 YR 3/3); 85% clay; 15% silt; trace of gravel; very stiff, moderate plasticity, laminations, moist, no odor. UV = Isolated grains - short wave.		
0.0/0.0		60			85			UV = Grains - short wave.	85.0	

Total depth is 85 feet below ground surface (bgs).
Groundwater was encountered at 78.5 feet bgs.

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
PROJECT NAME Omega Chemical
LOCATION 12504 East Whittier Blvd., Whittier CA
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY R. Douglas
REMARKS

BORING/WELL NUMBER GP-3
DATE DRILLED 10/28/03
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) NA
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete is 10 inches thick.	0.8	
		36				GP		GRAVEL: light grayish green (10 Y 8/1); 90% gravel, medium to coarse grained, angular, poorly graded; 10% silt in matrix; dry.		No well was constructed.
		0			5				7.0	
10.2		42			10	CL		CLAY: brown (10 YR 4/3); 100% clay; moderate plasticity, soft, moist, slight odor.		
5.1		60			15			CLAY: brown (10 YR 4/3); 100% clay; moderate plasticity, medium stiffness, moist, moderate odor.		
		0				GP		GRAVEL: light grayish green (10 Y 8/1); 90% gravel, medium to coarse grained, angular, poorly graded; 10% silt in matrix; dry.	17.0	
						CL		CLAY: brown (10 YR 4/3); 100% clay; moderate plasticity, medium stiffness, moist, moderate odor.	18.0	
						GP		GRAVEL: light grayish green (10 Y 8/1); 90% gravel, medium to coarse grained, angular, poorly graded; 10% silt in matrix; dry.	18.5	
					20				20.0	

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NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-3
PROJECT NAME Omega Chemical **DATE DRILLED** 10/28/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
		36			25 30 35	CL		CLAY: brown (10 YR 4/3); 100% clay; moderate plasticity, medium stiffness, moist, moderate odor.	35.0	
								Total Depth is 35 feet below ground surface. Groundwater was not encountered.		

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
PROJECT NAME Omega Chemical
LOCATION 12504 East Whittier Blvd., Whittier CA
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY R. Douglas
REMARKS

BORING/WELL NUMBER GP-3A
DATE DRILLED 10/28/03
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC) 83.00
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
								Concrete thickness is 6 inches.	0.5	
						CL		CLAY: brown (10 YR 4/3); 100% clay; soft, moist, no odor.		
					5			CLAY: brown (10 YR 4/3); 100% clay; soft, moist, slight odor.		No well was constructed.
								CLAY: brown (10 YR 4/3); 100% clay; soft, moist, no odor.	8.0	
						CL		CLAY AND GRAVEL: brown (10 YR 4/3); 60% clay; 40% gravel, angular, maximum diameter is 1 inch; soft, moist, no odor.	8.5	
20.4/ 0.0		48			10			CLAY: brown (10 YR 4/3); 100% clay; soft, moist, no odor. UV = Abundant streaks and grains - short wave, some grains - long wave.		
10.2/ 0.0		48			15			UV = Isolated grains - short wave.		
								CLAY: brown (10 YR 4/3); 100% clay; medium stiff, moist, slight odor.		
15.3/		60			20	CL				

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-3A
PROJECT NAME Omega Chemical **DATE DRILLED** 10/28/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0								UV = Isolated grains - short wave.		
10.2/ 0.0		60			25			UV = Isolated grains - short wave.		
10.2/ 0.0		60			30			UV = No grains or streaks observed.		
						ML		SILT: brown (10 YR 4/3); 80% silt; 10% clay; 10% sand, very fine grained; very soft, moist to wet, no odor.	30.5	
								CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, no odor.	32.0	
10.2/ 0.0		30								
10.2/ 0.0		30			35			UV = No grains or streaks observed.		
25.5/ 0.0		24			40			UV = Isolated grains - short wave.		
10.2/ 0.0		36								
						ML		SILT: brown (10 YR 4/3); 80% silt; 10% clay; 10% sand, very fine grained; very soft, moist to wet, no odor.	42.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-3A
PROJECT NAME Omega Chemical **DATE DRILLED** 10/28/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, no odor.	43.0	
						ML		SILT: brown (10 YR 4/3); 80% silt; 10% clay; 10% sand, very fine grained; very soft, moist to wet, moderate odor.	44.0	
40.8/ 0.0		60			45	CL		CLAY: brown (10 YR 4/3); 100% clay; very stiff, moist, moderate odor. UV = Isolated grains.	45.0	
10.2/ 0.0		54			50			UV = Isolated grains - short wave.		
15.3/ 0.0		60			55			UV = Isolated grains and streaks.		
30.6/ 0.0		60							57.0	
						ML		SILT: brown (10 YR 4/3); 80% silt; 10% clay; 10% sand, very fine grained; very soft, moist to wet, slight to moderate odor.	58.0	
10.2/ 0.0		36			60	CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor. UV = Abundant grains and streaks - short wave.		
						ML		SILT: brown (10 YR 4/3); 80% silt; 10% clay; 10% sand, very fine grained; very soft, moist to wet, moderate odor.	61.0	
35.7/ 0.0		30				CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor.	62.0	
51/ 0.0		30			65			SILT WITH CLAY: brown (10 YR 4/3); 70% silt; 30% clay; soft, moist to wet, moderate to strong odor. UV = Abundant grains and streaks - short wave.	64.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-3A
PROJECT NAME Omega Chemical **DATE DRILLED** 10/28/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						ML				
35.7/ 0.0		24						SILT WITH CLAY: brown (10 YR 4/3); 70% silt; 30% clay; soft, moist to wet, strong odor.		
20.4/ 0.0		12			70			SILT WITH CLAY: brown (10 YR 4/3); 70% silt; 25% clay; 5% fragments; soft, moist to wet, moderate to strong odor.	70.0	
						CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor. UV = Some grains and streaks - short wave.		
10.2/ 0.0		36			75			CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, very strong odor. CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor. UV = Abundant specks and streaks.		
10.2/ 0.0		24							78.0	
						CL		CLAY WITH SAND: brown (10 YR 4/3); 60% clay; 30% sand, fine grained; 10% silt; moist.	79.0	
5.0/ 0.0		12			80	CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor.	80.0	
						ML		SILT WITH CLAY: brown (10 YR 4/3); 70% silt; 30% clay; soft, moist to wet, moderate to strong odor.	81.0	
401/ 0.0		12				CL		UV = Abundant streaks - short wave. CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, very strong odor.	83.0	▼
15.3/ 0.0		24				CL		CLAY WITH SAND: brown (10 YR 4/3); 60% clay; 20% sand, fine grained, subround to round; 10% gravel, fine grained, subround to round, maximum diameter is 0.5 inches; 10% silt; moist.	84.0	
5.1/ 0.0		24			85	CL		CLAY: brown (10 YR 4/3); 100% clay; stiff, moist, moderate odor. UV = Abundant grains and streaks.	85.0	

Total depth is 85 feet below ground surface (bgs).
Groundwater was encountered at 83 feet bgs.

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
BORING/WELL NUMBER GP-4
PROJECT NAME Omega Chemical
DATE DRILLED 1/21/04 - 1/22/04
LOCATION Omega Chemical (C&I Electric)
CASING TYPE/DIAMETER NA
DRILLING METHOD Direct Push
SCREEN TYPE/SLOT NA
SAMPLING METHOD Macrocore
GRAVEL PACK TYPE NA
GROUND SURFACE ELEVATION (FT MSL)
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
TOP OF CASING ELEVATION (FT MSL)
STATIC WATER LEVEL (FT BELOW TOC)
LOGGED BY Rosalind Douglas & Mike Hoffman
GROUND WATER ELEVATION (FT MSL)
REMARKS Well was sampled for lithology continously in 5-foot sections.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
		54						ASPHALT is 3 inches thick.	0.3	
								CLAY: very dark grayish brown (10YR 3/2); 90% clay; 5% sand, poorly graded, coarse; 5% gravel, poorly graded, fine, angular to subrounded; moist, petroleum odor. Sand and gravel decrease with depth.		
7.1/ 1.6		42			5	CL		Color change to brown (10YR 4/3), no sand or gravel.		
								Color change to dark yellowish brown (10YR 4/4) with white mottling, solvent odor.		
		60			10			5% fine sand.		
						SC		CLAYEY SAND: dark yellowish brown (10YR 4/4); 70% sand, poorly graded, fin; 30% clay; moist, solvent odor. Gravel in first 3 inches, fine to coarse, 1.5-inch maximum diameter, subrounded to rounded.	11.0 11.5	
								CLAY: dark brown (10YR 3/3); 100% clay, medium plasticity; trace fine sand; trace fine gravel, 1/2-inch diameter; moist, hard, solvent odor.		
5.7/ 1.6		60			15	CL				
4.4/ 1.6		48	OC-SB-GP6-2-01220-		20	GP		GRAVEL: 1.5-inch maximum diameter, subrounded to rounded.	20.0 20.2	
								No longer any sand or gravel.		
6.4/ 1.6		60			25	CL				
						SW		SAND WITH GRAVEL: yellowish brown (10YR 5/4); 80% sand, well graded, fine to coarse; 20% gravel, poorly graded, fine, 1/2-inch maximum diameter, angular to subangular; moist, solvent odor.	29.5 29.8	
13.9/ 1.6		12			30	CL		CLAY: dark brown (10YR 3/3); 100% clay, medium plasticity, moist, solvent odor.		
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-4
PROJECT NAME Omega Chemical **DATE DRILLED** 1/21/04 - 1/22/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
3.0/ 0.6		60	OC-SB-GP6-3[illegible]-012204					CLAY: dark brown (10YR 3/3); 100% clay, medium plasticity, moist, solvent odor.		
10/ 0.6		18			40	CL				
2.3/		30	OC-SB-GP6-4[illegible]-012204		45					
						CL		CLAY: dark brown (10YR 3/3); 60% clay, 40% silt; low plasticity; trace sand; moist, solvent odor is getting stronger with depth.	49.0 50.0	
2.3/ 0.0		60			50					
5.7/ 0.6		24			55					
19/ 0.6		30			60	CL				
35.6/ 0.6		18	OC-SB-GP6-6[illegible]-012204		65					
10.2		60			70			Veins of white mineral present.		
					75			Trace fine (1/2-inch maximum), angular gravel from 73.5 to 74 feet bgs.	75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-4
PROJECT NAME Omega Chemical **DATE DRILLED** 1/21/04 - 1/22/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
4.3		32						CLAY: dark brown (10YR 3/3); 100% clay, medium plasticity, moist, solvent odor.		
		30			80	CL				
					85			Total depth of borehole is 85 feet bgs.	85.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
PROJECT NAME Omega Chemical
LOCATION Omega Chemical (C&I Electric)
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL)
TOP OF CASING ELEVATION (FT MSL)
LOGGED BY R. Douglas
REMARKS *Well was sampled for lithology continously in 5-foot sections.*

BORING/WELL NUMBER GP-5
DATE DRILLED 1/20/04
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC)
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
		42				ML		ASPHALT is 4 inches thick.	0.3	
								SILT WITH SAND (FILL): very dark grayish brown (10YR 2/2) and yellowish brown (10YR 5/4); 70% silt, 15% sand, fine to coarse; 15% gravel and fragments, poorly graded, fine, 1/2-inch maximum diameter, angular; hard, dry.	2.5	
								SILT: very dark grayish brown (10YR 2/2); 80% silt, 20% clay, nonplastic to low plasticity, dry, hard, slight odor.		
5.0		42			5	ML		Color change to dark yellowish brown (10YR 4/4).		
3.7		42			10					
						SM		SILTY SAND: yellowish brown (10YR 5/4); 85% sand, poorly graded, fine; 15% silt; moist, solvent odor.	12.0	
						SP			14.0	
9.8		60	OC-SB-GP6-1[illegible]-01200[illegible]		15			SAND WITH GRAVEL: yellowish brown (10YR 5/4); 80% sand, well graded, fine to coarse; 20% gravel and fragments, fine to coarse, 1-inch maximum diameter, subrounded to rounded; dry, solvent odor.	14.5	
								CLAY: dark brown (10YR 3/3); 100% clay, low to medium plasticity; moist, strong solvent odor.		
9.1		60			20					
7.8		60			25	CL				
								Some gravel from 27 to 28 ft bgs, fine to coarse, 1-inch maximum diameter, subrounded.		
36		60	OC-SB-GP6-3[illegible]-01200[illegible]		30					
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-5
PROJECT NAME Omega Chemical **DATE DRILLED** 1/20/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
22.1/ 0.3		60						CLAY: dark brown (10YR 3/3); 100% clay, low to medium plasticity; moist, strong solvent odor.		
								Color change to dark yellowish brown (10YR 3/4).		
5.7/ 0.3		30			40					
5.0/ 0.3		48			45	CL				
9.8/ 0.3		24	OC-SB-GP6-5-01200		50					
5.7/ 0.6		24			55			Color change to dark yellowish brown (10YR 4/4) with mottling.		
						ML		SILT WITH GRAVEL: dark yellowish brown (10YR 4/4) with mottling; 80% silt; 20% gravel, fine to coarse, 1-inch maximum diameter, subrounded to rounded moist, strong solvent odor.	58.0 59.0	
19/ 0.6		30			60	CL		CLAY: strongly mottled, dark yellowish brown (10YR 3/4) and dark grayish brown (2.5Y 4/2); 100% clay, low to medium plasticity; trace coarse sand and fine gravel, rounded; moist, strong solvent odor.		
24.1/ 0.3		24	OC-SB-GP6-6-01200		65					
						SP		SAND: yellowish brown (10YR 5/6); 100% sand, poorly graded, fine, moist, solvent odor.	68.0 68.5	
11.8/ 0.3		42	OC-SB-GP6-573-01200 (Dup)		70	CL		CLAY: brown (7.5Y 4/4); 100% clay, low plasticity, moist, solvent odor.		
						ML		SILT WITH SAND: dark yellowish brown (10YR 4/4); 60% silt, 20% sand, fine to medium, trace coarse; 20% gravel, fine to coarse, 1-inch maximum diameter, rounded; moist,	73.0 74.0	
					75					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-5
PROJECT NAME Omega Chemical **DATE DRILLED** 1/20/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
9.8/ 0.3		36						solvent odor.		
						CL		CLAY: brown (10YR 4/3); 100% clay, low plasticity, hard, moist, solvent odor.		
					80					
23.4/ 0.3		36								
									83.0	▽
						CL		CLAY WITH GRAVEL: brown (10YR 4/3); 70% clay, low to medium plasticity; 20% gravel, poorly graded, fine, 1/2-inch maximum diameter, subrounded to rounded; 10% fine sand; moist, solvent odor.	85.0	
					85			Total depth of borehole is 85 feet bgs.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD
BORING/WELL NUMBER GP-6
PROJECT NAME Omega Chemical
DATE DRILLED 1/22/04
LOCATION Omega Chemical (C&I Electric)
CASING TYPE/DIAMETER NA
DRILLING METHOD Direct Push
SCREEN TYPE/SLOT NA
SAMPLING METHOD Macrocore
GRAVEL PACK TYPE NA
GROUND SURFACE ELEVATION (FT MSL)
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
TOP OF CASING ELEVATION (FT MSL)
STATIC WATER LEVEL (FT BELOW TOC)
LOGGED BY Mike Hoffman
GROUND WATER ELEVATION (FT MSL)
REMARKS Well was sampled for lithology continously in 5-foot sections.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
1.0		48						ASPHALT is 4 inches thick.	0.3	
								SILT: black (10YR 2/1); 100% silt, nonplastic, horizontal partings, moist, hard.		
0.6		60			5			Color change to dark yellowish brown (10YR 4/4).		
						ML				
0.4		60	OC-SB-GP6-1-01220 (Phys)		10					
1.2		60			15			CLAY: dark yellowish brown (10YR 4/4); 100% clay, medium plasticity, moist, hard.	15.0	
								Color change to dark yellowish brown (10YR 3/4).		
1.1		42	OC-SB-GP6-2-01220 (Chem)		20			Color change back to dark yellowish brown (10YR 4/4).		
1.2		18	OC-SB-GP6-3-01220 (Phys)		25	CL				
5.5		30			30					
					35	SC			34.5 35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-6
PROJECT NAME Omega Chemical **DATE DRILLED** 1/22/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
6.2		60				CL		CLAYEY SAND: dark yellowish brown (10YR 4/4); 80% sand, poorly graded, fine to medium, subangular to subrounded; 20% clay, nonplastic; moist. CLAY: dark yellowish brown (10YR 4/4); 100% clay, medium plasticity, moist, hard.		
					40				40.0	
7.1		24	OC-SB GP6-4 012204 (Phys)			CL		SANDY CLAY: dark yellowish brown (10YR 4/4); 70% clay, medium plasticity; 30% sand, poorly graded, fine, subangular to subrounded; moist, hard. CLAY: dark yellowish brown (10YR 4/4); 100% clay, medium plasticity, moist, hard.	40.5	
					45					
5.6		24	OC-SB GP6-5 012204 (Chem)					Color change to dark yellowish brown (10YR 3/4).		
						CL				
					50					
11.2		30								
					55					
25.8		24	OC-SB GP6-6 012204 (Phys)							
									58.0	
						CL		CLAY WITH GRAVEL: dark yellowish brown (10YR 3/4); 80% clay, medium plasticity; 20% gravel, poorly graded, fine, 3/4-inch maximum diameter, angular to subangular; moist, hard.	59.0	
					60					
38.8		30				CL		CLAY: dark yellowish brown (10YR 3/4); 100% clay, medium plasticity, moist, hard.		
									63.0	
						ML		SILT: dark yellowish brown (10YR 3/4); 100% silt, medium plasticity, moist, hard.	64.0	
					65			CLAY: dark yellowish brown (10YR 3/4); 100% clay, medium plasticity; trace gravel, poorly graded, fine, 1/4-inch maximum diameter, angular to subrounded; moist, hard.		
46.7		30	OC-SB GP6-7 012204 (Chem)							
						CL				
		36			70					
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T2.OSS.FIELD **BORING/WELL NUMBER** GP-6
PROJECT NAME Omega Chemical **DATE DRILLED** 1/22/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
634		24	OC-SB-GP6-8 01220 (Phys)					CLAY: dark yellowish brown (10YR 3/4); 100% clay, medium plasticity; trace gravel, poorly graded, fine, 1/4-inch maximum diameter, angular to subrounded; moist, hard.		
28.4		48			80	CL				
					85			Total depth of borehole is 85 feet bgs.	85.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.PHASE1A
PROJECT NAME Omega Chemical
LOCATION Terra Pave
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL)
TOP OF CASING ELEVATION (FT MSL)
LOGGED BY Mike Hoffman
REMARKS Well was sampled for lithology continously in 5-foot sections.

BORING/WELL NUMBER GP-7
DATE DRILLED 1/21/04
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC)
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
20.4		30						ASPHALT is 3 inches thick.	0.3	
								SILT WITH SAND: very dark brown (10YR 2/2); 85% silt, nonplastic; 15% sand, poorly graded, fine, subangular to subrounded; horizontal partings, moist, hard.		
3.4		36			5	ML		Color change to dark yellowish brown (10YR 4/4).		
2.3		42			10				11.5	
						SP		SAND: dark yellowish brown (10YR 4/4); 90% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 10% gravel, poorly graded, fine, 3/4-inch maximum diameter, angular to subangular; trace silt; moist.	13.0	
1.6		60			15	ML		SILT WITH SAND: dark yellowish brown (10YR 4/4); 85% silt, nonplastic; 15% sand, poorly graded, fine, subangular to subrounded; horizontal partings, moist, hard.	17.0	
						SP		SAND WITH GRAVEL: dark yellowish brown (10YR 4/4); 80% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 20% gravel, poorly graded, fine, 3/4-inch maximum diameter, angular to subangular; trace silt; moist.	17.5	
						ML			20.0	
2.0		60			20	CL		SILT WITH GRAVEL: dark yellowish brown (10YR 4/4); 85% silt, nonplastic; 15% gravel, poorly graded, fine, 1/2-inch maximum diameter, angular to rounded; horizontal partings, moist, hard.	21.0	
						SP		CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.	21.5	
3.3		60			25	CL		SAND WITH GRAVEL: dark yellowish brown (10YR 4/4); 80% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 20% gravel, poorly graded, fine, 3/4-inch maximum diameter, angular to subangular; trace silt; moist.		
								CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.		
1.7		36			30					
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.PHASE1A **BORING/WELL NUMBER** GP-7
PROJECT NAME Omega Chemical **DATE DRILLED** 1/21/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
6 6		60						CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.		
10.0		18			40					
12 7		36	OC-SB-GP7-4-012104		45	CL				
19.0		60			50					
1.5		24			55				57 0	
						SP		SAND: dark yellowish brown (10YR 4/4); 90% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 10% gravel, poorly graded, fine, 3/4-inch maximum diameter, angular to subangular; trace silt; moist	60.0	
122		24	OC-SB-GP7-6-012104		60			CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.		
57.8		18	OC-SB-GP7-6-012104		65	CL				
32.6		30			70					
					75				75.0	

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NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.PHASE1A **BORING/WELL NUMBER** GP-7
PROJECT NAME Omega Chemical **DATE DRILLED** 1/21/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
12.1		24						CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.		
9.7		36			80	CL				
					85			Total depth of borehole is 85 feet bgs.	85.0	

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.PHASE1A
PROJECT NAME Omega Chemical
LOCATION Terra Pave
DRILLING METHOD Direct Push
SAMPLING METHOD Macrocore
GROUND SURFACE ELEVATION (FT MSL)
TOP OF CASING ELEVATION (FT MSL)
LOGGED BY Mike Hoffman
REMARKS Well was sampled for lithology continously in 5-foot sections.

BORING/WELL NUMBER GP-8
DATE DRILLED 1/21/04
CASING TYPE/DIAMETER NA
SCREEN TYPE/SLOT NA
GRAVEL PACK TYPE NA
GROUT TYPE/QUANTITY Hydrated Bentonite Chips
STATIC WATER LEVEL (FT BELOW TOC)
GROUND WATER ELEVATION (FT MSL)

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
0.0		36						ASPHALT is 3 inches thick.	0.3	
								SILT WITH SAND: dark yellowish brown (10YR 4/4); 85% silt, nonplastic; 15% sand, poorly graded, fine, subangular to subrounded; horizontal partings, moist, hard.		
0.8		48			5	ML		Color change to very dark brown (10YR 2/2).		
					10				10.0	
1.3		30				SP		SAND WITH GRAVEL: light yellowish brown (10YR 6/4); 85% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 15% gravel, poorly graded, fine, 1/2-inch maximum diameter, angular to subangular; moist.	11.5	
						ML		SILT WITH SAND: very dark brown (10YR 2/2); 85% silt, nonplastic; 15% sand, poorly graded, fine, subangular to subrounded, horizontal partings, moist, hard.	15.0	
1.3		60			15	SP		SAND WITH GRAVEL: light yellowish brown (10YR 6/4); 85% sand, poorly graded, fine to medium, trace coarse, subangular to subrounded; 15% gravel, poorly graded, fine, 1/2-inch maximum diameter, angular to subangular; moist	18.0	
								CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard.		
2.2		30			20					
7.5		60			25	CL				
2.1		60			30					
					35				35.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.PHASE1A **BORING/WELL NUMBER** GP-8
PROJECT NAME Omega Chemical **DATE DRILLED** 1/21/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
11.6		60						CLAY: dark yellowish brown (10YR 4/4); 100% clay, nonplastic, moist, hard		
5.3		24			40					
2.6		48			45	CL				
46.5		60	OC-SB-GP8-50-012104		50					
2.7		12	OC-SB-GP8-60-012104		55					
0.7		18			60	SP		SAND. brown (10YR 4/3); 100% sand, poorly graded, fine, subangular to subrounded; moist.	60 0	
12.5		12	OC-SB-GP7-65-012104		65			Hit refusal, total depth of borehole is 66 feet bgs.	66 0	

NEWGINT OMEGA.GPJ NEWGINT.GDT 2/18/04

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a
PROJECT NAME Omega Chemical
LOCATION 12511 Putnam St, Whittier, CA
DRILLING METHOD Mud Rotary
SAMPLING METHOD Mud Rotary Cuttings
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY W.F. Grove

BORING/WELL NUMBER OW-8B REV
DATE DRILLED 8/16/04
CASING TYPE/DIAMETER Sch 40, PVC / 4"
SCREEN TYPE/SLOT 4" Stainless Steel Wire Wrap / 0.020"
GRAVEL PACK TYPE Monterey #2/12
GROUT TYPE/QUANTITY Portland Cement/5% Bentonite
STATIC WATER LEVEL (FT BELOW TOC) NM
GROUND WATER ELEVATION (FT MSL)

REMARKS The lithology at OW-08 (10' north), was used from 0-71'. The geophysical log and cuttings were used from 71' to the total depth of 143'.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								CONCRETE is 7 inches thick.	0.6
								ROADBASE	1.0
						CL		SILTY CLAY: brown (7.5YR4/3); 70% clay with minor rock fragments to 3-inch diameter (probable fill), very slightly plastic, firm, hard to dig, moist; 30% silt; moist, no odor.	2.0
								SILT: light brown (7.5YR6/4); nonplastic, soft, moist to damp, no odor.	
	5,6, 7	18			5				
	3,4, 5	18							
0	9,10, 11,12	23				ML			
					10				
	8,10, 12	18							
	7,9, 11	17							
0	50,50	17							14.0
						CL		CLAY: brown (7.5YR4/2); very slightly plastic, hard, firm, no staining or odor.	15.0
	21,40, 50	17			15			SILTY CLAY: brown (7.5YR4/2); very slightly plastic, firm, moist; 30% silt; gravel/clay lens - trace gravel to 20 mm through out	
	17,21, 25	18							
0	16,22, 25,30	23				CL			
					20				
	12,17, 21	18							21.0
	13,18, 24	17						CLAY: brown (7.5YR4/2); very slightly plastic, hard, moist; less than 10% silt.	
2/0	22,29, 50,	18				CL			
					25				
	15,16, 20	17							26.0
						SW		SAND: brown (7.5YR4/3); fine to coarse, well graded, subangular to subrounded, moist; grading to very fine to fine, poorly graded, subrounded at 27 feet, no odor.	27.0
	15,22, 29	18				ML			28.0
4/0	18,20, 25,30	23				CL		SILT: brown (7.5YR4/3); nonplastic, soft, no staining or odor.	
					30			CLAY: brown (7.5YR4/3); very slightly plastic, hard; trace coarse sand to 5 mm; trace light brown clay in voids and cracks, no staining or odor.	30.5
	41,50	14						SILTY CLAY: brown (7.5RY4/3); very slightly plastic, firm/hard, moist; 30% silt; trace coarse sand; no staining or odor.	
	25,26, 31	18							
4/0	18,23, 26,30	18				CL			
					35				

WELL DIAGRAM

- Concrete (0-2 ft bgs)
- 12" x 3/8" mild steel conductor casing (0-91.4 ft bgs)
- 4" sch 40 pvc, blank casing (0-116 ft bgs)
- Portland cement w/ 5% bentonite gel grout (2 - 110 ft bgs)

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** OW-8B REV
PROJECT NAME Omega Chemical **DATE DRILLED** 8/16/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
	14,17, 22	18								
	16,19, 26	17							37.0	
	20,24, 29,40	20				ML		SILT: brown (7.5YR4/3); nonplastic to very slightly plastic, soft to medium; interbedded with 3-inch thick clay stringers.	40.0	
18/0	23,27, 41	18			40			SILTY CLAY: brown (7.5YR4/3); very slightly plastic, firm to hard, moist; trace gravel to 5 mm; no staining or odor		
	20,25, 32	14				CL				
	22,25, 27,27	22							44.5	
10/0	8,12, 15	17			45	ML		SILT. brown (7.5YR4/3); nonplastic, medium soft, moist; trace clay; no staining or odor.		12" x 3/8" mild steel conductor casing (0-91.4 ft bgs)
	12,15, 21	16						SANDY SILT: light brown (7 5YR6/4); soft, moist; 35% very fine sand, poorly graded, subrounded; no staining or odor.	47.0	
	19,23, 26,28	20								
18/2	17,21, 27	17			50	ML				4" sch 40 pvc, blank casing (0-116 ft bgs)
	15,20, 24	17								
4/2	29,50, 50,	18							54.0	
	19,24, 28	16			55			SAND: light brown (7.5YR6/4), clean sand, very fine to fine, poorly graded, subrounded, moist, no staining or odor.		Portland cement w/ 5% bentonite gel grout (2 - 110 ft bgs)
	17,20, 25	14								
4/2	50,50	12				SP				
	37,50	12			60					
	42,50	14								
2/0	50,50	12				SP		SAND: light brown (7.5YR6/4); clean sand, very fine to medium, poorly graded, subrounded, moist, no staining or odor.	63.0	
	29,50	15			65			SAND: light brown (7.5YR6/4); clean sand, very fine to medium, poorly graded, subrounded, saturated, no staining or odor. Groundwater encountered at 65 ft bgs.	65.0	
	28,50	14								
28/0	18,21, 25,30	22				SP				
	20,23, 28	16			70			The lithology above 71 feet is from soil boring OW-8 from split spoon sampling. The lithology below 71 feet is from OW-8B, a mud rotary hole.	71.0	
				G		CL		CLAY AND SILT: yellowish brown; 70% clay; 30% silt; high plasticity, high density, moist, no odor.		
					75				75.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1 GW.Phase1a **BORING/WELL NUMBER** OW-8B REV
PROJECT NAME Omega Chemical **DATE DRILLED** 8/16/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						CL		CLAY AND SILT: yellowish brown; 70% clay; 30% silt; high plasticity, high density, moist, no odor.	78.0	
						ML		SANDY SILT: yellowish brown; 50% silt; 30% sand, fine grained, subround to round; 10% gravel, fine to coarse grained, subround to round; 10% clay; medium density, moist, no odor.	79.0	
						SM			80.0	Portland cement w/ 5% bentonite gel grout (2 - 110 ft bgs)
					80	GM		SILTY SAND WITH GRAVEL: yellowish brown; 50% sand, fine to coarse grained, subround to round, well graded, 20% silt; 20% gravel, fine to coarse grained, subround to round, well graded; 10% clay; moist to wet, no odor SILTY GRAVEL WITH SAND: brown; 40% gravel, fine to coarse grained, subround to round, well graded; 30% sand, fine to coarse grained, round to subround, well graded; 30% silt; trace of cobbles, maximum diameter of 6 inches; high density, moist, no odor.		4" sch 40 pvc, blank casing (0-116 ft bgs)
					85				87.0	
						CL		CLAY WITH SAND. brown; 85% clay, medium plasticity; 15% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded.		
					90				92.0	12" x 3/8" mild steel conductor casing (0-91 4 ft bgs)
						CH		CLAY: brown; 95% clay, medium to high plasticity; 5% sand, poorly graded, medium, subangular to subrounded; trace silt.		
				G	95					
					100				102 0	
						CL		CLAY: brown; 80% clay, 10% silt, medium plasticity; 10% sand, poorly graded, fine to medium, subangular to subrounded.		
					105				108.0	
						CH		CLAY: brown; 95% clay, high plasticity; 5% sand, poorly graded, fine to medium, subangular to subrounded.	110.0	
					110	CL		CLAY WITH SAND. brown; 85% clay, medium plasticity; 15% sand, poorly graded, fine to medium, subangular to subrounded; trace silt.		Plaster sand (110-111.3 ft bgs)
						ML		SANDY SILT: brown; 55% silt, 10% clay, low plasticity; 35% sand, fine to medium, subangular to subrounded.	113.0	
					115				115.0	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1 GW Phase1a **BORING/WELL NUMBER** OW-8B REV
PROJECT NAME Omega Chemical **DATE DRILLED** 8/16/04

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	DEPTH (ft bgs)	U S C S	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
						ML		SANDY SILT brown, 55% silt, 10% clay, low plasticity, 35% sand, fine to medium, subangular to subrounded	119 0	No 2/12 Monterey sand (111 3 - 128 feet bgs)
					120	SM		SILTY SAND light brown and brown, 80% sand, poorly graded, fine to medium, subangular to rounded, 20% silt, nonplastic	122 0	4" stainless steel, 0 010" wire wrap screen (116 - 126 ft bgs)
					125	SP SM		SAND WITH SILT light brown, 95% sand, poorly graded, fine to medium, mostly fine, subangular to rounded, 5% silt, nonplastic	129 0	
				G	130	CL		CLAY light brown, 90% clay, medium plasticity, 10% sand	131 0	
						SP SM		SAND WITH SILT light brown, 95% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded, 5% silt, nonplastic	132 0	
						CL		CLAY light brown, 90% clay, medium plasticity, 10% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded	135 0	
					135	SP		SAND light brown, 100% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded	140 0	Hydrated bentonite chips (128 - 143 ft bgs)
					140	CL		CLAY light brown, 90% clay, medium plasticity, 10% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded	141 0	
						SP		SAND light brown, 100% sand, poorly graded, fine to medium, mostly fine, subangular to subrounded	143 0	

Total depth is 143 feet bgs

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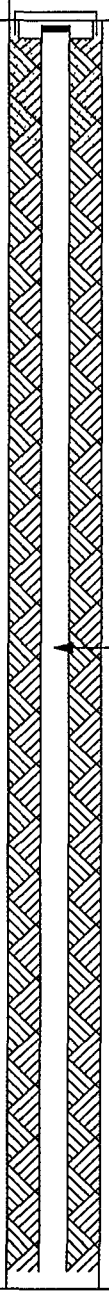
BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a
PROJECT NAME Omega Chemical
LOCATION 12511 Putnam St, Whittier, CA
DRILLING METHOD Sonic
SAMPLING METHOD Continuous Core
GROUND SURFACE ELEVATION (FT MSL) NA
TOP OF CASING ELEVATION (FT MSL) NA
LOGGED BY T. Titus
BORING/WELL NUMBER B-1/PZ-1
DATE DRILLED 11/5/03
CASING TYPE/DIAMETER 2" Diameter Sch 40 PVC
SCREEN TYPE/SLOT 2" Diameter Sch 40 PVC / 0.020"
GRAVEL PACK TYPE Lapis Lustre #2/12
GROUT TYPE/QUANTITY Portland Cement / 5% Bentonite
STATIC WATER LEVEL (FT BELOW TOC) 67.40
GROUND WATER ELEVATION (FT MSL)
REMARKS Well is on west side of Putnam St., north of Washington Blvd.

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH
								Concrete is 7" thick	0.6
								Roadbase	1.0
								SILT: brown; 95% silt; 5% gravel, coarse grained, subround to round; trace of cobbles, round, maximum diameter of 1 inch; medium density, dry, no odor.	
		60			5				
0.0		60			10	ML			
								SILT WITH CLAY: reddish brown; 90% silt; 10% clay; trace of gravel, medium to coarse grained, round; non-plastic, high density, moist, no odor.	
4.0		60			15				
					20				20.0



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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-1/PZ-1

PROJECT NAME Omega Chemical **DATE DRILLED** 11/5/03

Continued from Previous Page

PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
6.0		60						SILT WITH CLAY: reddish brown; 80% silt; 20% clay; trace of gravel, medium to coarse grained, round; low plasticity, low density, moist, no odor.		
5.0		60			25			SILT WITH SAND: reddish brown; 80% silt; 20% sand, very fine to fine grained, round; trace gravel, medium to coarse grained, round; trace of cobbles, round, maximum diameter of 2 inch; low density, moist, no odor.		Portland Cement / 5% Bentonite Grout
								SILT WITH CLAY: reddish brown; 90% silt; 10% clay; trace of gravel, medium to coarse grained, subround; high density, moist, no odor.		
7.0		60			30			SILT WITH CLAY: reddish brown; 90% silt; 10% clay; trace of very fine to fine sand; non-plastic, medium density, moist, no odor.		
37		60			35					
44		60			40	ML		SILT WITH SAND: reddish brown; 80% silt; 20% sand, very fine to fine grained, round; trace of gravel, fine to medium grained, subround to subangular; medium to high density, dry, no odor.		

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-1/PZ-1
PROJECT NAME Omega Chemical **DATE DRILLED** 11/5/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
									43.0	
25		30			45	ML				
									49 0	
34		60			50	SM		SAND AND SILT: reddish brown; 50% sand, very fine to fine grained, round, poorly graded; 50% silt; low density, dry, no odor		
								SAND AND SILT WITH GRAVEL: tan; 60% sand, very fine to coarse grained, subround to round, well graded; 30% silt, 10% gravel, fine to coarse grained, subround to round; trace of cobbles, round, maxium 1 inch diameter; slightly cemented, low density, dry, no odor.		
12		60			55				55.5	
						ML		SILT WITH GRAVEL: reddish brown; 90% silt; 10% gravel, fine to coarse grained, subround; moderate density, dry, no odor	56 0	
						SM		SAND AND SILT: tan; 50% sand, very fine to coarse grained, subround to round, well graded; 50% silt; dry, no odor.	56.5	
						SW		SAND: reddish brown; 95% sand, very fine to coarse grained, subround to round, well graded; 5% gravel, fine to medium grained, subround to round; slightly cemented, dry, no odor.		Uncoated Hydrated Bentonite Chips
20		48							59.5	
					60			SAND WITH SILT. reddish brown; 90% sand, very fine to fine grained, round, poorly graded; 10% silt; slightly cemented, dry, no odor.		
8.0		36				SP		SAND: reddish brown; 100% sand, fine to medim grained, round, poorly graded, dry, no odor.		
11		36			65					

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-1/PZ-1
PROJECT NAME Omega Chemical **DATE DRILLED** 11/5/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
8.0		24				SM		SAND WITH SILT: tan; 70% sand, very fine to fine grained, round, poorly graded; 30% silt; slightly cemented, dry, no odor.	66.0	
						CL		CLAY AND SILT: brown; 60% clay; 40% silt; high density, dry, no odor.	68.0	
						SW		SAND WITH SILT: reddish brown; 80% sand, very fine to coarse grained, subround, well graded; 20% silt; dry, no odor.	68.5	
						SM		SAND AND SILT: tan; 70% sand, very fine to fine, round, poorly graded; 30% silt; low density, dry, no odor.	69.0	
						SW		SAND WITH SILT: reddish brown; 80% sand, very fine to coarse grained, subround, well graded; 20% silt; dry, no odor	69.5	
					70	SM		SAND AND SILT. tan; 70% sand, very fine to fine, round, poorly graded; 30% silt; slightly cemented, dry, no odor.	70 0	#2/12 Lapis Lustre Sand
5.0		60				ML		SAND AND SILT WITH CLAY; brown; 50% sand, medium to coarse grained, subround to round, well graded; 40% silt; 10% clay; trace of gravel, fine to coarse grained, subround to round; wet, no odor.	72.5	
						CL		SILT AND SAND: brown; 60% silt, 40% sand, fine to medium grained, subround, poorly graded; wet, no odor.	73.0	
					75	ML		CLAY: brown; 100% clay; high plasticity, high density, moist, no odor.	74.0	
9.0		48						SILT WITH CLAY: brown; 90% silt; 10% clay, trace of gravel, fine to coarse grained, subround; high density, moist, no odor.		
								SILT AND CLAY WITH SAND: orangish brown; 60% silt; 30% clay; 10% sand, very fine to fine grained, round; low plasticity, high density, moist, no odor.		
								SILT WITH CLAY: orangish brown; 75% silt; 20% clay; 5% gravel, fine to coarse grained, subround to round, low plasticity, high density, moist, no odor		2" Diameter, SCH 40 PVC, 0.020" Slotted Casing
					80	SM		SAND AND SILT orangish brown; 60% sand, very fine to fine grained, round, poorly graded, 40% silt; moist, no odor.	79.0	
37		72								
						SW		SAND AND SILT WITH GRAVEL: orangish brown; 50% sand, fine to coarse grained, round to angular, well graded; 30% silt; 20% gravel, fine to coarse grained, round to anagular, well graded; wet, no odor.	84.0	
					85	SM		SAND AND SILT: orangish brown; 70% sand, very fine to fine grained, subround to round, poorly graded, 30% silt; wet, no odor.	84.5	
						SW		SAND WITH SILT AND GRAVEL: brown; 60% sand, fine to coarse grained, subround to round, well graded; 20% silt; 20% gravel, fine to coarse grained, subround to round, well graded; trace cobbles, maximum diameter of 2 inches; wet, no odor	86.0	
								GRAVEL, SILT, AND SAND: brown; 40% gravel, fine to	87.5	

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BORING/WELL CONSTRUCTION LOG

PROJECT NUMBER 10500-37240-T1.GW.Phase1a **BORING/WELL NUMBER** B-1/PZ-1
PROJECT NAME Omega Chemical **DATE DRILLED** 11/5/03

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PID (ppm)	BLOW COUNTS	RECOVERY (inches)	SAMPLE ID.	EXTENT	DEPTH (ft. bgs)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH	WELL DIAGRAM
16		96			90	GW GM		coarse grained, subangular to subround, well graded; 30% sand, medium to coarse grained, subround to subangular, well graded; 30% silt; trace of cobbles, maximum diameter of 3.5 inches; high density, dry, no odor.	90.0	

Total Depth is 90 feet below ground surface (bgs).
Groundwater was encountered at 67.4 feet bgs.

Table 3-1
Omega Chemical Superfund Site
Well Construction Details

Well No.	Casing Dia. (inches)	Boring diameter (inches)	TD drilled (feet bgs)	Blank Casing Type	Screen Type	Screened Interval (feet bgs)	Slot Size (inch)	Filter Pack Gradation	Filter Pack Interval	Date Drilled	TD Cased (feet bgs)	Northing feet	Easting feet	GS Elevation (feet msl)	Reference Point Elev. (feet msl)	Reference Point (casing)
OW1	4	10	80	MS	SS/WW	62.5-77.5	0.020	#2/12	59-77.5	Jun-96	80	4101351.3	4274702.0	207.79	210.3	top PVC
OW1b*	4	10	130	MS	SS/WW	110-120	0.020	#2/12	99-130	Jun-99	120	4101331.7	4274666.4	205.18	204.98	top PVC
OW2	4	10	85	MS	SS/WW	60-80	0.020	#2/12	55-85	Jun-99	80	4101362.0	4274396.2	201.04	200.1	top PVC
OW3	4	10	85	MS	SS/WW	63-83	0.020	#2/12	55-85	Jun-99	83	4101113.0	4274538.0	196.88	196.33	top of steel
OW4a	4	10	80	MS	SS/WW	49.8-69.8	0.020	#2/12	44.7-75.7	Mar-01	75	4100784.2	4273942.3	182.73	182.47	top of steel
OW4b	4	10	132	MS	SS/WW	112-122.3	0.020	#2/12	109.5-132	Mar-01	127.2	4100782.7	4273932.3	182.63	182.22	top of steel
OW5	4	10	52	MS	SS/WW	30-50	0.020	#2/12	25-51	Aug-01	50	4100291.9	4272058.3	152.68	151.96	top of PVC
OW6	4	10	61.5	MS	SS/WW	38-58	0.020	#2/12	36-59	Mar-01	58	4100352.7	4273577.3	170.94	170.54	top of steel
OW7	4	10	92	MS	SS/WW	70.9-90.9	0.020	#2/12	65-92.5	Mar-02	90.9	4101548.4	4274850.7	213.34	212.01	top of steel
OW8	4	10	81	MS	SS/WW	60.4-80.0	0.020	#2/12	55-81	Mar-02	80	4101239.5	4274466.7	199.03	198.42	top of steel
OW8b*	4	10	143	PVC	SS/WW	116-126	0.010	#2/12	111.3-128	Aug-04	126	4101250.4	4274461.4	199.27	198.65	top of PVC
PZ1	2	6	90	PVC	PVC/slot	68-88	0.020	#2/12	62.5-88	Nov-03	88	4101198.5	4274490.2	198.41	198.04	top of PVC
PZ2	2	6	85	PVC	PVC/slot	64-84	0.020	#2/12	59.2-84	Nov-03	84	4101284.3	4274441.7	199.83	199.29	top of PVC

bgs - feet below ground surface
msl - feet above Mean Sea Level
GS - Ground Surface
TD - Total Depth

Dia. - Diameter
SS - stainless steel
WW - continuous wire wrap
MS - Mild Steel

PVC - polyvinylchloride
slot - slotted PVC

Note: northing and easting data per California Coordinate System NAD27
* Wells OW1b and OW8b also include 12-inch diameter mild steel conductor casing to 90 and 91.4 feet bgs, respectively.

UTM Coordinates Zone 11, NAD 83 (meters) as follows:

	Northing	Easting
OW1	3759242.1	403554.4
OW1b	3759236.3	403543.4
OW2	3759246.6	403461.2
OW3	3759170.1	403503.4
OW4a	3759072.3	403320.6
OW4b	3759071.9	403317.6
OW5	3758929.8	402744.6
OW6	3758942.3	403207.7
OW7	3759301.6	403600.4
OW8	3759209.0	403482.2
OW8b	3759212.3	403480.6
PZ1	3759196.4	403489.2
PZ2	3759222.7	403474.8