APPENDIX A
BORING LOGS/WELL CONSTRUCTION DETAILS

MONTEREY COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH
A CERTIFIED UNIFIED PROGRAM AGENCY
☒ 1270 Natividad Rd., Rm. 301, Salinas CA 93906 (831) 755-4505
☐ 1200 Aguajito Rd., Monterey CA 93940 (831) 647-7654
☐ 1180 Broadway, King City CA 93930 (831) 385-8350

MONITORING WELL PERMIT

PERMIT NO: HZ-1176 VEW1

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

CONDITIONS:

SITE PLAN SHALL BE TO SCALE.

NOTIFY THE HEALTH DEPARTMENT 48 HOURS PRIOR TO THE TIME YOU EXPECT TO START WORK ON CONSTRUCTION OR DESTRUCTION OF ANY TYPE OF WELL.

COMPLETE DESTRUCTION IS REQUIRED FOR ALL WELLS INCLUDING SOIL BORING, SPARGING AND EXTRACTION WELLS (PER CA WATER WELL BULLETIN 74-81 SUPPLEMENT 74-90 AND THE MONTEREY COUNTY HEALTH DEPARTMENT REQUIREMENTS FOR THE DESTRUCTION OF MONITORING WELLS AND EXPLORATORY BORINGS)

DATE ISSUED: **12/10/03** ***EXPIRATION DATE:*** **12/10/04**

ISSUED BY: _____
Bruce Welden, R.E.H.S., R.E.A.
Hazardous Materials Specialist

(Rev. 11/13/01)

MONTEREY COUNTY HEALTH DEPARTMENT
DIVISION OF ENVIRONMENTAL HEALTH
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MONITORING WELL PERMIT

PERMIT NO: HZ-1171 MW6

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

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DATE ISSUED: **12/10/03** ***EXPIRATION DATE:*** **12/10/04**

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☐ 1180 Broadway, King City CA *93930 (831) 385-8350*

MONITORING WELL PERMIT

PERMIT NO: HZ-1172 MW7

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

CONDITIONS:

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MONITORING WELL PERMIT

PERMIT NO: HZ-1177 MW8

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

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MONITORING WELL PERMIT

PERMIT NO: HZ-1173 MW9

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

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MONITORING WELL PERMIT

PERMIT NO: HZ-1174 MW10

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
OWNER: Daniel T. O'Brien 229 Pajaro St., Ste 301 Salinas, CA 93901 ***PHONE:*** (831) 424-3637	***DRILLING CONTRACTOR:*** West HazMat Drilling Corp. 1016 E. Katella Ave. Anaheim, CA 92805 ***PHONE:*** (714) 939-6759 ***LICENSE NO:C-57 819548***

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MONITORING WELL PERMIT

PERMIT NO: HZ-1175 MW11

☒ – MONITORING WELL ☒ – CONSTRUCTION

☐ – VAPOR EXTRACTION WELL ☐ – DESTRUCTION

SITE LOCATION: *1031 Industrial Way, Salinas, CA*
APN #: *003-571-006*

SITE CONTACT PERSON: Daniel O'Brien ***PHONE:*** (831) 424-3637	***CONSULTANT:*** Ground Zero Analysis, Inc. 1714 Main St. Escalon, CA 95320 ***PHONE:*** (209) 838-9888
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Hazardous Materials Specialist

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GROUND ZERO ANALYSIS

LOG OF BORING VW-1

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/19/03, 1/23/04 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE RG 6795
DRILLING COMPANY WEST HAZMAT/ CASCADE DRILLER METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 10 IN DEPTH DRILLED 36 FT DEPTH TO WATER : INITIAL – FT STATIC – FT
CASING TYPE PVC DIAMETER 4 IN SCHEDULE 40 INTERVAL 0 FT TO 16 FT
SCREEN TYPE PVC DIAMETER 4 IN SLOT SIZE 0.100 IN INTERVAL 16 FT TO 36 FT
FILTER PACK TYPE PEA GRAVEL INTERVAL 14 FT TO 36 FT
SURFACE SEAL TYPE NEAT CEMENT OVER BENTONITE INTERVAL 0 FT TO 14 FT
COMMENTS: PILOT BORING DRILLED AND ABANDONED 12/19/03, WELL INSTALLED 01/23/04 PAGE 1 OF 1

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0'–0.5' CONCRETE
					0.5'–14.5' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M–H DRY STGTH; N DLTNCY; M–H TGHNESS; M–H PLAST; M DENSE; BRN, NO ODOR, DRY.
	2				
	4		LPEVW1–5		
		1.5	6 9 17	CL	
	6				
	8				
			LPEMV1–10		
	10	2.4	8 12 13		
	12				
	14		LPEVW1–15		
		982	7 8 9		14.5'–21/24.5' POORLY GRADED SAND (SP); >95% F, A–SA, P GRDD SND; <5% FNS; M DENSE; BRN, M–STRNG PETRO ODOR, DRY.
	16			SP	
	18				
			LPEVW1–20		
	20	1365	10 10 12		
					21/24.5'–26/29.5' WELL GRADED SAND (SW); >95% FN–CRS, A–SR, W GRDD SND; <5% FNS; M DENSE; BRN, M–STRNG PETRO ODOR; DRY.
	22				
	24		LPEVW1–25		
		898	11 12 14	SW	
	26				26/29.5'–31/35.5' WELL GRADED SAND (SW); >95% F–CRS; A–SR W GRDD SND; <5% F, SA–SR, GRVL; <5% FNS; M DENSE; BRN, M–S PETRO ODOR.
	28				
			LPEVW1–30		
	30	1418	7 7 8	SW	
					31/35.5'–36.5' CLAYEY SAND W/ GRAVEL (SC); 50–60% FN–CRS, A–SR, W GRDD SND; 20–25% FN, SA–SR, W GRDD GRVL; 20–25% FNS; M DENSE; BRN, M PETRO ODOR, ODOR, DRY.
	32				
	34				
			LPEVW1–36		
		846	9 11 17	SC	
	36				
	38				
	40				

REGISTERED GEOLOGIST
JOHN P. LANE
No. 6795
STATE OF CALIFORNIA

GROUND ZERO ANALYSIS

LOG OF WELL MW6

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/19/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER DOUG WARMER METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 10 IN DEPTH DRILLED 72.5 FT DEPTH TO WATER : INITIAL – FT STATIC 60 FT
CASING TYPE PVC DIAMETER 4 IN SCHEDULE 40 INTERVAL 0 FT TO 52 FT
SCREEN TYPE PVC DIAMETER 4 IN SLOT SIZE 0.010 IN INTERVAL 52 FT TO 72 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 4-6, 24-26, 50-72 FT
SURFACE SEAL TYPE #8 BENTONITE & 3/8" BENTONITE CHIPS INTERVAL 0-4, 6-24, 26-50 FT
COMMENTS: VAPOR PROBES @ 5&25 BGS; AMS STAINLESS STEEL VAPOR TIP AND 1/4" TUBING PAGE 1 OF 2

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0-0.5' CONCRETE
					0.5'-11/14.5' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; H DRY STGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; HARD-V STIFF; BRN, NO ODOR, DRY.
	2				
	4		LPEMW6-5 11 22 24		
		0.5		CL	
	6				
	8				
			LPEMW6-10 12 12 13		
	10	1.4			
					11/14.5'-21/24.5' POORLY GRADED SAND (SP); >95% FN, A-SA, P GRDD SND; <5% FNS; DENSE-V DENSE; BRN, STRNG PETRO ODOR, DRY.
	12				
	14		LPEMW6-15 17 28 31		
		3300			
	16				
				SP	
	18				
			LPEMW6-20 11 14 21		
	20	1063			
					21/24.5'-26/29.5' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; DENSE; BRN, M PETRO ODOR, DRY.
	22				
	24		LPEMW6-25 12 20 31		
		10		SW	
	26				26/29.5'-36/39.5' WELL GRADED SAND W/ GRAVEL (SW); 75-80% FN-CRS, A-SR, W GRDD SND; 20-25% FN, SA-SR, W GRDD GRVL; <5% FNS; V DENSE; BRN, M PETRO ODOR, DRY.
	28				
			LPEMW6-30 23 50		
	30	50			
	32				
				SW	
	34		LPEMW6-35 16 27 33		
	36	55			36/39.5'-72' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; V STIFF-HARD; BRN/GRY, S-M PETRO ODOR, DRY-MST.
	38				
			LPEMW6-40 7	CL	
	40				

GROUND ZERO ANALYSIS

LOG OF WELL MW6

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		100	8 11		36/39.5'-72' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; HARD-V STIFF; BRN/ GRY, S-M PETRO ODOR, DRY-MST.
	42				
	44	24	LPEMW6-45 11 22 24		
	46				
	48				
	50	146	LPEMW6-50 11 16 33		
	52				
	54	1080	LPEMW6-55 9 10 12		
	56			CL	
	58				
	60	290	LPEMW6-60 6 7 9		▼
	62				
	64	3.0	LPEMW6-65 6 8 18		
	66				
	68				
	70		31 50 27		NO RECOVERY
	72	2.4	50 LPEMW6-72		
	74				
	76				
	78				
	80				

REGISTERED GEOLOGIST
JOHN P. LANE
No. 6795
STATE OF

GROUND ZERO ANALYSIS

LOG OF WELL MW7

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/17/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER TED NICHOLS METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 10 IN DEPTH DRILLED 70 FT DEPTH TO WATER : INITIAL 61 FT STATIC 59.7 FT
CASING TYPE PVC DIAMETER 4 IN SCHEDULE 40 INTERVAL 0 FT TO 50 FT
SCREEN TYPE PVC DIAMETER 4 IN SLOT SIZE 0.010 IN INTERVAL 50 FT TO 70 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 48 FT TO 70 FT
SURFACE SEAL TYPE NEAT CEMENT OVER BENTONITE INTERVAL 0 FT TO 48 FT
COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
	2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40	0.5, 0.6, 0.6, 4.4, 0.3, 0.5, 0.3	9 11 14; 11 14 16; 14 17 18; 29 39 50; 18 25 34; 26 50 ⊠; 12 22 31	CL; SP; SW; SW; SW; CL	0.5'-15' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STGTH; N-SLW DLTNCY; M TGHNESS; M PLAST; VERY STIFF; BRN, NO ODOR, DRY.
					15'-16.5' POORLY GRADED SAND (SP); >95% FN, A-SA, P GRDD SND; <5% FNS; DENSE; BRN, NO ODOR, DRY.
					16.5'-21.5/25' WELL GRADED SAND W/ GRAVEL (SW); 60-65% FN-CRS, A-SR, W GRDD SND; 35-40% FN-CRS, SA-SR, W GRDD GRVL, 1-2% COBBLES; <5% FNS; VERY DENSE; BRN, NO ODOR, DRY.
					21.5/25'-31.5/35' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; V DENSE; BRN, NO ODOR, DRY.
					31.5/35'-36.5/40' WELL GRADED SAND W/ GRAVEL (SW); 75-80% FN-M, A-SR, W GRDD SND; 20-25% FN-CRS, SA-SR, W GRDD SND; <5% FNS; V DENSE; BRN, NO ODOR, DRY.
					36.5/40'-51.5/55' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; VERY STIFF; BRN, NO ODOR, DRY-MST.

GROUND ZERO ANALYSIS

LOG OF WELL MW7

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		0.3	8 12 19		36.5/40'-51.5/55' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; VERY STIFF; BRN, NO ODOR, DRY-MST.
	42				
	44				
	46	0.6	8 11 15	CL	
	48				
	50	5	LPEMW7-50 7 9 16		
	52				51.5/55'-56.5/60' SILT (ML); <5% FN, A, SND; >95% FNS; N DRY STGTH; R DLTNCY; L TGHNESS; N PLAST; VERY STIFF; BRN/ GRY, SL ODOR, DRY-MST.
	54				
	56	209	LPEMW7-55 7 9 13	ML	
	58				56.5/60'-65' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; MED DENSE; GRY, SL-M ODOR, WET.
	60	260	LPEMW7-60 7 9 12	SW	▼ ▽
	62				
	64				
	66	0.3	LPEMW7-65 5 10 10	CL	65'-71.5' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; STIFF-V STIFF; BRN, NO ODOR, DRY-MST.
	68				
	70	0.1	LPEMW7-70 10 11 14		
	72				
	74				
	76				
	78				
	80				

REGISTERED GEOLOGIST
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No. 6795
STATE OF CALIFORNIA

GROUND ZERO ANALYSIS

LOG OF WELL MW8

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/17/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER TED NICHOLS METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 8 IN DEPTH DRILLED 72 FT DEPTH TO WATER : INITIAL 63 FT STATIC 62.5 FT
CASING TYPE PVC DIAMETER 2 IN SCHEDULE 40 INTERVAL 0 FT TO 52 FT
SCREEN TYPE PVC DIAMETER 2 IN SLOT SIZE 0.010 IN INTERVAL 52 FT TO 72 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 50 FT TO 72 FT
SURFACE SEAL TYPE NEAT CEMENT OVER BENTONITE INTERVAL 0 FT TO 50 FT
COMMENTS: PAGE 1 OF 2

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0'-0.5' CONCRETE
					0.5'-1.16' ROAD BASE
	2				1.16'-15' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; HARD; BRN, NO ODOR, DRY.
	4				
	6	0.1	16 19 22		
	8			CL	
	10	0.1	14 25 31		
	12				
	14				
	16	0.1	16 19 25	ML	15'-16.5/20' SILT (ML); <5% FN, SND; >95% FNS; N DRY STRGTH; R DLTNCY; L TGHNESS; N PLAST; HARD; BRN, NO ODOR, DRY.
	18				16.5/20'-21.5/25' POORLY GRADED SAND (SP); >95% FN, A-SA, P GRDD SND; <5% FNS; VERY DENSE; BRN, NO ODOR, DRY.
	20	0.1	18 30 50	SP	
	22				21.5/25'-26.5/30' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FN-CRS, SA-SR, GRVL; <5% FNS; V DENSE; BRN, NO ODOR, DRY.
	24				
	26	0.1	26 50 ⊠	SW	
	28				26.5/30'-45' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; DENSE-V DENSE; BRN, NO ODOR, DRY.
	30	0.2	50 ⊠		
	32				
	34			SW	
	36	0.2	29 50 ⊠		
	38				
	40				

GROUND ZERO ANALYSIS

LOG OF WELL MW8

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		0.2	15, 19, 24	SW	26.5/30'-45' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; V DENSE-DENSE; BRN, NO ODOR, DRY.
	42				
	44				
			14, 16, 18	CL	45'-56.5/60' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; HARD; BRN, NO ODOR, MST.
	46	0.2			
	48				
	50		LPEMW8-50 15, 24, 35		
		0.2			
	52				
	54		LPEMW8-55 15, 12, 21		
	56	0.2			56.5/60'-65' SILTY CLAY (CL/ML); <5% FN, A, SND; >95% FNS; M DRY STRGTH; SLW DLTNCY; M TGHNESS; M PLAST; HARD; BRN, NO ODOR; MST-WET.
	58				
	60		LPEMW8-60 19, 23, 27		
		0.2			
	62			CL/ML	
	64				
			LPEMW8-65 10, 12, 16	SW	65'-66.5/70' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; MED DENSE; BRN, NO ODOR, WET.
	66	0.6			
	68				66.5/70'-72' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; HARD; BRN, NO ODOR, DRY-MST.
	70		LPEMW8-72 18, 24, 36, 23, 50	CL	
		0.3			
	72	0.4		CL?	
	74				
	76				
	78				
	80				

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GROUND ZERO ANALYSIS

LOG OF WELL MW9

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/16/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER TED NICHOLS METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 8 IN DEPTH DRILLED 72 FT DEPTH TO WATER : INITIAL 62.8 FT STATIC 61.5 FT
CASING TYPE PVC DIAMETER 2 IN SCHEDULE 40 INTERVAL 0 FT TO 52 FT
SCREEN TYPE PVC DIAMETER 2 IN SLOT SIZE 0.010 IN INTERVAL 52 FT TO 72 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 4-6, 24-26, 50-72, FT
SURFACE SEAL TYPE #8 BENTONITE & 3/8" BENTONITE CHIPS INTERVAL 0-4, 6-24, 26-50, FT
COMMENTS: VAPOR PROBES @ 5'&25'; AMS STAINLESS STEEL PROBE TIP W 1/4" TUBING PAGE 1 OF 2

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0-0.5' CONCRETE
					0.5'-1.16' BASEROCK
	2				1.16'-11.5/15' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M PLAST; V STIFF; BRN, NO ODOR, DRY.
	4				
	6	0.2	9, 14, 17	CL	
	8				
	10	0.3	10, 12, 21		
	12				11.5/15'-16.5/20' POORLY GRADED SAND (SP); >95% FN, A, P GRDD SND; <5% FNS; V DENSE; BRN, NO ODOR, DRY.
	14				
	16	0.3	15, 21, 38	SP	
	18				16.5/20'-31.5/35' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FN-CRS, SA-SR, GRVL; <5% FNS; V DENSE; BRN, NO ODOR, DRY.
	20	0.1	17, 30, 50		
	22				
	24				
	26	0.1	53, 50/2	SW	
	28				
	30	0.1	50/6		
	32				31.5/35'-36' WELL GRADED SAND W/ CLAY & GRAVEL (SW-SC); 60-75% FN-CRS, A-SR, W GRDD SND; 20-30% FN-CRS, A-SR, W GRDD GRVL, 5-10% FNS; DENSE; BRN, NO ODOR, DRY.
	34			SW-SC	
	36	0.1	18, 20, 26	CL	36'-36.5' SANDY LEAN CLAY (CL); 15-20% SND; <5% F-CRS, A-SR, W GRDD GRVL; 80-85% FNS; M-H DRY STRGTH; SLW DLTNCY; M-H TGHNESS; M-H PLAST; DENSE; BRN, NO ODOR, DRY-MST.
	38			CL	36.5'-56.5/60' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; HARD; BRN, NO ODOR, DRY.
	40				

GROUND ZERO ANALYSIS

LOG OF WELL MW9

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		0.2	16 19 27		36.5'-56.5/60' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; HARD-V STIFF; BRN, NO ODOR, DRY-MST.
	42				
	44				
	46	0.2	16 18 23		
	48			CL	
	50	0.1	LPEMW9-50 11 16 27		
	52				
	54	0.3	LPEMW9-55 14 16 21		
	56				56.5/60'-65' SILTY CLAY (CL/ML); <5% FN, A, SND; >95% FNS; M DRY STRGTH; SLW DLTNCY; M TGHNESS; M PLAST; HARD; BRN, NO ODOR, MST-WET.
	58				
	60	0.1	LPEMW9-60 10 17 31	CL/ML	
	62				
	64				
	66	0.3	LPEMW9-65 12 16 24	SW	65'-70.25' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; DENSE; BRN, NO ODOR, WET.
	68				
	70	0.3	LPEMW9-72 12 21 30	CL	70.25'-73' LEAN CLAY (CL); <5% F, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; HARD-V STIFF; BRN, NO ODOR, DRY.
	72	0.3	12 17 28		
	74				
	76				
	78				
	80				

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GROUND ZERO ANALYSIS

LOG OF WELL MW10

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/15/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER TED NICHOLS METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 8 IN DEPTH DRILLED 72 FT DEPTH TO WATER : INITIAL 63.5 FT STATIC 58.8 FT
CASING TYPE PVC DIAMETER 2 IN SCHEDULE 40 INTERVAL 0 FT TO 52 FT
SCREEN TYPE PVC DIAMETER 2 IN SLOT SIZE 0.010 IN INTERVAL 52 FT TO 72 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 50 FT TO 72 FT
SURFACE SEAL TYPE NEAT CEMENT OVER BENTONITE INTERVAL 0 FT TO 50 FT
COMMENTS: ABOVE GROUND MONUMENT PAGE 1 OF 2

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0-0.3' CONCRETE
					0.3-1.16' ROADBASE
	2				1.16'-11.5/15' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; STIFF-HARD; BRN, NO ODOR, DRY.
	4				
	6	0.1	5 5 4	CL	
	8				
	10	1.1	14 18 22		
	12				11.5/15'-16.5/20' SILT (ML); <5% FN, A, SND; >95% FNS; N DRY STRGTH; R DLTNCY; L TGHNESS; N PLAST; HARD; BRN, NO ODOR; DRY.
	14				
	16	0.9	12 14 21	ML	
	18				16.5/20'-21.5/25' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; DENSE; BRN, NO ODOR, DRY.
	20	0.8	15 18 19	SW	
	22				21.5/25'-26.5/30' POORLY GRADED SAND (SP); >95% FN, A-SA, SND, <5% FNS; MED DENSE; BRN, NO ODOR, DRY.
	24				
	26	1.4	14 10 19	SP	
	28				26.5/30'-31.5/35' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FNS; V DENSE; WHT, NO ODOR, DRY.
	30	0.5	29 50/5	SW	
	32				31.5/35'-36.5/40' WELL GRADED SAND (SW); >95% FN-CRS, A-SR, W GRDD SND; <5% FN, SA, GRVL; <5% FNS; MED DENSE; BRN, NO ODOR, DRY.
	34				
	36	0.7	15 18 21	SW	
	38				36.5/40'-66.5/70' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; V STIFF; BRN, NO ODOR, DRY-WET.
	40			CL	

GROUND ZERO ANALYSIS

LOG OF WELL MW10

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		1.2	9 12 18		36.5/40'-66.5/70' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; V STIFF; BRN, NO ODOR, DRY-WET.
	42				
	44				
	46	0.7	12 13 19		
	48				
	50	0.5	LPEMW10-50 8 11 16		
	52				
	54				
	56	0.5	LPEMW10-55 10 14 17	CL	
	58				
	60	0.6	LPEMW10-60 9 12 21		
	62				
	64				
	66	1.3	LPEMW10-65 6 10 9		
	68				66.5/70'-72' FAT CLAY (CH); <5% FN, A, SND; >95% FNS; H-VH DRY STRGTH; N DLTNCY; H TGHNESS; H PLAST; V STIFF; BRN, NO ODOR, WET.
	70	0.8	LPEMW10-72 8 14 18	CH	
	72	0.6	8 11 14		
	74				
	76				
	78				
	80				

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GROUND ZERO ANALYSIS

LOG OF WELL MW11

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365
DATE DRILLED 12/19/03 LOGGED BY SEAN GARVEY REVIEWED BY JOHN LANE, RG 6795
DRILLING COMPANY WEST HAZMAT DRILLER DOUG WORLER METHOD HOLLOW STEM AUGER
BORE HOLE DIAMETER 2 IN DEPTH DRILLED 80 FT DEPTH TO WATER : INITIAL 70 FT STATIC 60.7 FT
CASING TYPE PVC DIAMETER 2 IN SCHEDULE 40 INTERVAL 0 FT TO 60 FT
SCREEN TYPE PVC DIAMETER 2 IN SLOT SIZE 0.010 IN INTERVAL 60 FT TO 80 FT
FILTER PACK TYPE 2/12 SAND INTERVAL 4-6, 24-26, 58-80 FT
SURFACE SEAL TYPE #8 BENTONITE 3/8" BENTONITE CHIPS INTERVAL 0-4, 6-24, 26-58 FT
COMMENTS: VAPOR PROBES @ 5'&25'; AMS STAINLESS STEEL PROBE TIP WITH 1/4" TUBING PAGE 1 OF 2

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
					0-0.3' CONCRETE
					0.3'-1.16' ROAD BASE
	2				1.16'-10.5/14' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N-SLW DLTNCY; M-H TGHNESS; M-H PLAST; V STIFF; BRN, NO ODOR, MST.
	4				
		1.3	12, 14, 17	CL	
	6				
	8				
	10		10, 10, 10		
		0.5			10.5/14'-15.5/19' SILT (ML); 5-10% FN, A, SND; >90% FNS; N DRY STRGTH; R DLTNCY; L TGHNESS; N PLAST; V STIFF; BRN, NO ODOR, DRY.
	12				
	14				
		0.5	9, 11, 12	ML	
	16				15.5/19'-21/24.5' WELL GRADED SAND (SW); >95% FN-M, A-SA, W GRDD SND; <5% FNS; M DENSE-DENSE; BRN, NO ODOR, DRY.
	18				
	20	0.8	11, 15, 18	SW	
	22				21/24.5'-34.5' WELL GRADED SAND (SW); >95% FN-CRS, A-SA, W GRDD SND; <5% FNS; DENSE-M DENSE; BRN, NO ODOR, DRY.
	24				
		1.2	13, 18, 24		TRACE GRAVEL 24.5-26'
	26				
	28			SW	
	30		8, 11, 15		
		0.9			
	32				
	34				
		1.0	8, 12, 16	SW	34.5'-35.5/39' WELL GRADED SAND W/ GRAVEL (SW); 60-65% FN-CRS, A-SR, W GRDD SND; 35-40% FN, SA-SR, W GRDD GRVL, <5% FNS; M DENSE; BRN, NO ODOR, DRY.
	36				35.5/39'-40.5/44' POORLY GRADED SAND (SP); >95% FN, A-SA, W GRDD SND; <5% FNS; M DENSE; BRN, NO ODOR, DRY-MST.
	38			SP	
	40		8		

GROUND ZERO ANALYSIS

LOG OF WELL MW11

PROJECT PURE ETCH LOCATION 1031 INDUSTRIAL SALINAS, CA PROJECT NO. 365

COMMENTS:

WELL DETAIL	DEPTH (FT.)	PID (PPM)	SAMPLE ID BLOWCOUNT	U.S.C. LOG	DESCRIPTION
		0.9	13 17	SP	35.5/39'-40.5/44' POORLY GRADED SAND (SP); >95% FN, A-SA, W GRDD SND; <5% FNS; M DENSE; BRN, NO ODOR, DRY-MST.
	42				40.5/44'-65' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; STIFF-V STIFF; BRN, NO ODOR, DRY-MST.
	44	0.8	7 7 8		
	46				
	48				
	50	1.8	10 10 11		
	52			CL	
	54	1.2	8 9 9		
	56				
	58				
	60	1.6	LPEMW11-60 11 12 17		
	62				
	64	1.8	LPEMW11-65 10 11 13	SW	65'-65.5' WELL GRADED SAND (SW); >95% F-CRS, A-SR, W GRDD SND; <5% FNS; M DENSE; BRN, NO ODOR, MST-WET.
	66				65.5'-71/74.5' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; STIFF-V STIFF; BRN, NO ODOR, DRY-MST.
	68			CL	
	70	1.1	LPEMW11-70 10 12 21		
	72				71/74.5'-76/79.5' CLAYEY SAND (SC); 75-80% FN-CRS, A-SR, W GRDD SND; 20-25% FNS; V DENSE; BRN, NO ODOR, WET.
	74	1.0	LPEMW11-75 19 24 31	SC	
	76				76/79.5'-81' LEAN CLAY (CL); <5% FN, A, SND; >95% FNS; M-H DRY STRGTH; N DLTNCY; M-H TGHNESS; M-H PLAST; STIFF; BRN, NO ODOR, MST-WET.
	78				
	80	2.3	LPEMW11-80 7 7 8	CL	
	82				

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