

FACSIMILE from



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SUBJECT: SVE Results

As discussed final results on SVE Pilot Test.  
We plan to do a follow up soil gas sampling  
on UR-1 thru UR-5. Are you interested in  
splitting and if so when are you available.

Thx  
JW

## GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)  
 CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702365  
 PROJECT # : 22797  
 PROJECT NAME : SVI PILOT TEST

SAMPLE ID #	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
01	VR-1 INITIAL	AIR	2/27/97	NA	2/28/97	200
02	VR-1 SECOND	AIR	2/27/97	NA	2/28/97	200
03	VR-1 THIRD	AIR	2/27/97	NA	2/28/97	200
PARAMETER	DET. LIMIT	UNITS	01	02	03	
BENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
BROMODICHLORMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
BROMOFORM	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
BROMOMETHANE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20	
CARBON TETRACHLORIDE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	4.4	
CHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
CHLOROETHANE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
CHLOROFORM	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
CHLOROMETHANE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20	
DIBROMOCHLOROMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
1,2-DIBROMOETHANE (EDB)	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
1,2-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
1,3-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
1,4-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
1,1-DICHLOROETHANE	0.03	MG/M <sup>3</sup>	< 6.0	< 6.0	< 6.0	
1,2-DICHLOROETHANE (EDC)	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
1,1-DICHLOROETHENE	0.02	MG/M <sup>3</sup>	360	310	310	
cis-1,2-DICHLOROETHENE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
trans-1,2-DICHLOROETHENE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20	
1,2-DICHLOROPROPANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
cis-1,3-DICHLOROPROPENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
trans-1,3-DICHLOROPROPENE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
ETHYLBENZENE	0.05	MG/M <sup>3</sup>	95	120	110	
METHYL-N-BUTYL ETHER	0.25	MG/M <sup>3</sup>	< 50	< 50	< 50	
METHYLENE CHLORIDE	0.20	MG/M <sup>3</sup>	< 40	< 40	< 40	
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
TETRACHLOROETHENE	0.05	MG/M <sup>3</sup>	180	180	180	
TOLUENE	0.05	MG/M <sup>3</sup>	2000 A	2000 A	2400 A	
1,1,1-TRICHLOROETHANE	0.10	MG/M <sup>3</sup>	2700 A	3500 A	3100 A	
1,1,2-TRICHLOROETHANE	0.02	MG/M <sup>3</sup>	5.2	6.7	7.0	
TRICHLOROETHENE	0.05	MG/M <sup>3</sup>	8600 A	13000 A	11000 A	
TRICHLOROFUOROMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0	
VINYL CHLORIDE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10	
TOTAL XYLENES	0.05	MG/M <sup>3</sup>	380	380	350	
TRICHLOROTRIFLUOROETHANE	0.20	MG/M <sup>3</sup>	< 40	< 40	< 40	
SURROGATE:						
BROMOCHLOROMETHANE (%)			95	84	83	
SURROGATE LIMITS	( 73 - 117 )					
TRIFLUOROTOLUENE (%)			88	82	86	
SURROGATE LIMITS	( 60 - 117 )					

CHEMIST NOTES: SAMPLE ID # 01 HAD VERY LITTLE SAMPLE TO WORK WITH  
 A - SAMPLES ANALYZED USING ALTERNATE METHOD 8240 TO INCREASE LINEAR RANGE

GAS CHROMATOGRAPHY RESULTS

TEST : PURGEABLE HALOCARBONS / AROMATICS (EPA 8010/8020)  
 CLIENT : SPARTON TECHNOLOGIES AEN I.D.: 702366  
 PROJECT # : 22797  
 PROJECT NAME : SVE PILOT TEST

SAMPLE ID.#	CLIENT I.D.	MATRIX	DATE SAMPLED	DATE EXTRACTED	DATE ANALYZED	DIL. FACTOR
04	ACUVAC EMISSION	AIR	2/27/97	NA	2/28/97	200
05	VR-1 FOURTH	AIR	2/27/97	NA	2/28/97	200
06	VR-1 DAY 2 INITIAL	AIR	2/28/97	NA	2/28/97	200

  

PARAMETER	DET. LIMIT	UNITS	04	05	06
BENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
BROMODICHLORMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
BROMOFORM	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
BROMOMETHANE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20
CARBON TETRACHLORIDE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
CHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
CHLOROETHANE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
CHLOROFORM	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
CHLOROMETHANE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20
DIBROMOCHLOROMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
1,2-DIBROMOETHANE (EDB)	0.02	MG/M <sup>3</sup>	< 4.0	12	< 4.0
1,2-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
1,3-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
1,4-DICHLOROBENZENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
1,1-DICHLOROETHANE	0.03	MG/M <sup>3</sup>	< 6.0	< 6.0	< 6.0
1,2-DICHLOROETHANE (EDC)	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
1,1-DICHLOROETHENE	0.02	MG/M <sup>3</sup>	88	270	270
cis-1,2-DICHLOROETHENE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
trans-1,2-DICHLOROETHENE	0.10	MG/M <sup>3</sup>	< 20	< 20	< 20
1,2-DICHLOROPROPANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
cis-1,3-DICHLOROPROPENE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
trans-1,3-DICHLOROPROPENE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
ETHYLBENZENE	0.05	MG/M <sup>3</sup>	< 10	100	100
METHYL-T-BUTYL ETHER	0.20	MG/M <sup>3</sup>	< 50	< 50	< 50
METHYLENE CHLORIDE	0.20	MG/M <sup>3</sup>	< 40	< 40	< 40
1,1,2,2-TETRACHLOROETHANE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
TETRACHLOROETHENE	0.05	MG/M <sup>3</sup>	< 10	150	150
TOLUENE	0.05	MG/M <sup>3</sup>	48	2100 A	2100 A
1,1,1-TRICHLOROETHANE	0.10	MG/M <sup>3</sup>	< 20	2800 A	2700 A
1,1,2-TRICHLOROETHANE	0.02	MG/M <sup>3</sup>	< 4.0	8.1	8.8
TRICHLOROETHENE	0.03	MG/M <sup>3</sup>	440 E	9900 A	9800 A
TRICHLOROFLUOROMETHANE	0.02	MG/M <sup>3</sup>	< 4.0	< 4.0	< 4.0
VINYL CHLORIDE	0.05	MG/M <sup>3</sup>	< 10	< 10	< 10
TOTAL XYLENES	0.05	MG/M <sup>3</sup>	< 10	310	320
TRICHLOROTRIFLUOROETHANE	0.20	MG/M <sup>3</sup>	< 40	< 40	< 40

SURROGATE:  
 BROMOCHLOROMETHANE (%) 94 88 88  
 SURROGATE LIMITS (73 - 117)  
 TRIFLUOROTOLUENE (%) 83 83 88  
 SURROGATE LIMITS (89 - 117)

CHEMIST NOTES: SAMPLE ID # 04 HAD A SMALL HOLE IN THE BAG, INSUFFICIENT SAMPLE VOLUME FOR REANALYSIS  
 A = SAMPLES ANALYZED USING ALTERNATE METHOD 8240 TO INCREASE LINEAR RANGE  
 E = ESTIMATED VALUE BEYOND LINEAR RANGE