ASCON

BORING # PNL-BA8 @ 17'

	SAMPLE #	PID	REM. %	FID	REM. %
FLUX, UNCONTROLLED SAMPLE, CONC =	SFU	63		357	
PRODUCT APPLIED					
PETRO CLEAN	SFC1	65	-3.17	362	-1.40
MICROBLAZE	SFC2	52	17.46	318	10.92
BIOSOLVE	SFC3	69	-9.52	368	-3.08
ALABASTER CS1 W/ MICROBES	SFC4	67	-6.35	342	4.20
ALABASTER CS1 W/O MICROBES	SFC5	40	36.51	183	48.74
WATER SPRAY	SFC6	21	65.57	78	78.11
> - - - - - - - RECHECK	SOURCE =	61		261	
WATER SPRAY	[redacted]	40		129	
RETEST ALABASTER		49	19.67	179	31.62
RUSULAR FORM	SFC7				
05-12-04 UNCONTROLLED PNLBA1		15		60	
ALABASTER CS1		7	53.33	27	55.00

PRETEST CALIBRATION
05-14-04 7:04
TVA-1000 ASCON

		PID	FID
AMBIENT	AIR	1.7	1.7
ZERO	AIR	-0.12	-0.91
100 ppm	ISOBUTYLENE	90.0	
100 ppm	METHANE	(-0.41)	106
1.0 %	METHANE	(-0.86)	1.17 %

POST TEST CALIBRATION
05-14-04 15:10

		PID	FID
AMBIENT	AIR	0.29	2.11
ZERO	AIR	-0.25	-0.40
100 ppm	ISOBUTYLENE	74.1	(149)
100 ppm	METHANE	(-0.01)	106
1.0 %	METHANE	(-0.03)	9891

PRETEST CALIBRATION
ASCON
TVA 1000 05-13-04

	PID	FID
AMBIENT AIR	2.2	1.5
ZERO AIR	-0.24	-0.10
100 PPM ISOBUTYLENE	98	(153)
100 PPM METHANE	(0.38)	108
RECALIBRATED	(-0.19)	95
1.0 % METHANE	(-0.23)	1.12%
		1.11%

POST TEST CALIBRATION
ASCON
05-13-04

	PID	FID
AMBIENT AIR	0.18	1.90
ZERO AIR	0.08	-0.01
100 PPM ISOBUTYLENE	80	(150)
100 PPM METHANE	(0.04)	106
1.0% METHANE	(-0.26)	1.11%

714-501-4474 CELL
LOREN

PRETEST CALIBRATION
05-12-04
ASCON 08:24
TVA-1000

	PID	FID
AMBIENT AIR	0.08	2.18
ZERO AIR	-0.01	0.44
100 ppm ISOBUTYLENE	107	(145)
100 ppm METHANE	(-0.45)	97.34
1.0% METHANE.	(-0.43)	1.08%

POST TEST
CALIBRATION
05-12-04

	PID	FID
AMBIENT AIR	-1.22	0.46
ZERO AIR	-1.29	-1.45
100 ppm ISOBUTYLENE	83.6	(150)
100 ppm METHANE	(-2.4)	101
1.0% METHANE	(-2.9)	1.17%

PRETEST CALIBRATION

05-11-04

A SCON 08:37

TVA-1000

	PID	FID
AMBIENT AIR	0.00	2.15
ZERO AIR	-0.10	0.66
100 PPM ISOBUTYLENE	109	(147)
100 PPM METHANE	(-0.43)	92.91
1.0 % METHANE	(-0.88)	1.04%

POST TEST CALIBRATION

05-11-04 16:58

	P.I.D	F.I.D
AMBIENT AIR	1.68	6.20
ZERO AIR	0.92	2.4
100 PPM ISOBUTYLENE	74.8	(144)
100 PPM METHANE	(0.60)	88.4
1.0 % METHANE	0.00	1.00%

PRETEST CALIBRATION
ASCON SITE
05-10-04

TVA - 1000 #R3986

	PID	F.D
AMBIENT AIR	0.40	1.6
ZERO AIR	-0.27	-0.08
100 PPM ISOBUTYLENE	97.7	(142)
100 PPM METHANE	(-0.08)	94.5
1.0 % METHANE	(-0.30)	1.06%

POST TEST CALIBRATION
05-10-04

	PID	F.D
AMBIENT AIR	1.09	4.06
ZERO AIR	1.06	2.34
100 PPM ISOBUTYLENE	72.01	(140)
100 PPM METHANE	(0.82)	91.3
1.0 % METHANE	(0.44)	1.00%

FOR SATURDAY DELIVERY:

MARTHA O'BRIAN
26 RANDALL DRIVE
SUFFIELD CT 06078
860-668-2577

SIGN RELEASE FOR DROP
W/O SIGNATURE.

CALL - W/ SHIPPING #
MARTHA & THAT SAMPLES
WERE SHIPPED.

CE Schmidt, Ph.D.
Environmental Consultant

ATTACHMENT A

EMISSION MEASUREMENT DATA SHEETS

Phase IV- Lagoon Testing/Control Agent Testing

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

SURFACE FLUX MEASUREMENT DATA FORM

DATE 09-26-04 SAMPLERS NWR

LOCATION ASCOM LAGOON # 1 LOCATION B

SURFACE DESCRIPTION VERY BLACK - VISCOUS PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. 2574 TYPE JEROME H_2S 63-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Yes CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 8 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER S/M PSIG START 1200 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome H_2S ~~Sample Number~~	Comments
1245	5.0	0								
1251	↓	1								
1257	↓	2								1B
1303	↓	3								
1309	↓	4					41	135		CSN PNL-LIB-SFU
1315	↓	5					42	133	.039	07003/AC00580
							43	130	.061	PNL-LIB-SFUR
		REPLICATE CANISTER							.050	01242/AC00232
1331								.050		

1331

COMMENTS: UNCONTROLLED LARGE AMOUNT OF TAR-LIKE SUBSTANCE IN THIS WASTE MATERIAL. HIGH ODOR.

~~SITE DIAGRAM~~

SEE PREVIOUS

11

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LANDFILL LAGOON # 1 LOCATION B

SURFACE DESCRIPTION VERY BLACK, VISCOUS PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 8 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SIM PSIG START 200 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.O	F.O	Jerome H_2S ~~Sample Number~~	Comments
1249	5.0	0								
1255	↓	1								1B
1301		2								
1307		3								
1313		4					42	122		INSTRUMENTS
1319		5					43	120	.055	ONLY
									.054	
								.63	.047	

COMMENTS: UNCONTROLLED
A LARGE AMOUNT OF BLACK TAR-LIKE MATERIAL IN THIS WASTE. – HIGH ODOR.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 1 LOCATION B

SURFACE DESCRIPTION VERY BLACK, VISCOUS PETROLEUM WASTE.

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA100 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 10 mph Wind at Seal, 2 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER 3M PSIG START 1000 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	JEROME H_2S ~~Sample Number~~	Comments
1340	5.0	0								
1346	↓	1								
1352		2								
1358		3								
1404		4					2.0	0.7		CANISTER
1410		5					3.3	3.7	.008	INL-LLB-SFC2
							3.2	3.2	.005	01819 / A0004182
									.004	ODOR BKG
								.004		SULFUR BKG -SFC23

COMMENTS: APPLIED RUSMAR FOAM - ~3"

~~SITE DIAGRAM~~

SEE PREVIOUS

1D

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 1 LOCATION B

SURFACE DESCRIPTION VERY BLACK, VISCOUS PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL VB3 CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 10 mph Wind at Seal, 2 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 37772 SUPPLIER S/M PSIG START 2000 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	JEROME H_2S ~~Sample~~ Number	Comments
1342	5.0	0								-29" Hg
1348	↓	1								
1354		2								
1400		3					41	113		
1406		4					43	114	.073	CANISTER
1412		5					42	114	.054	PNL-LIB SF CH1
									.042	01601/AC00326
								.050		CARB BAG
										SULFUR BAG

SFC#13

COMMENTS:

APPLIED ALABASTER CSA

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-27-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 1 LOCATION A

SURFACE DESCRIPTION DARK, GOOEY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL WASTE LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SM PSIG START 400 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	H_2S ~~Sample Number~~	Comments
7:12	5.0	0								
7:18	↓	1								
7:24	↓	2								1A
7:30	↓	3					61	137	.018	PNL-L1A-SFU
7:36	↓	4					77	124	.016	01445/AC00292
7:42	↓	5					78	110	.027	CANISTER
										ODOR BAG "
										SULFUR BAG -SFUS

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-27-04 SAMPLERS HLR

LOCATION ASCON LAGOON # 1 LOCATION A

SURFACE DESCRIPTION DARK, MOOSY, PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL WASTE LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5774 TYPE Bacharach 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YBS CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 37772 SUPPLIER S/M PSIG START 1600 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	H_2S ~~Sample Number~~	Comments
7:15	5.0	0								
7:21	↓	1								1.1
7:27		2								
733		3					48	90		INSTS
739		4					68	82		ONLY
745		5					54	68	.028	
									.031	
									.028	

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-27-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 1 LOCATION A

SURFACE DESCRIPTION DARK, GOOEY, PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL WASTE LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SIM PSIG START 850 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.D	Real-Time (ppmv) F.D	H_2S ~~Sample~~ Number	Comments
0800	5.0	0								-29"
0806		1								1A
812		2								
818		3					3.4	2.2		
824		4					3.2	2.6		CANISTER
830		5					3.4	2.7	.011	PNL-LIA-SFC2
									.004	01903/AC0055
									.003	ODOR BAG
										SULFUR BAG

COMMENTS: APPLIED RESIDUAL FOAM PRODUCT - APPROX 2" THICK.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-27-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 1 LOCATION A

SURFACE DESCRIPTION BLACK, GOOEY, PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL VBS CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UUP CC 37772 SUPPLIER S/A PSIG START 1500 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.D	F.D	H_2S ~~Sample Number~~	Comments
805	5.0	0								
811		1								1A
817		2								
823		3								
829		4					31	88		CANISTER
835		5					40	89		PNL-LIA-SF01
							40	89	.022	01300/AC00176
8:55									.029	ODOR BAG
9:00								.0277	.032	SULFUR BAG

COMMENTS: APPLIED ALABASTER CS1 PRODUCT - SOAKED THE WASTE SURFACE

CAN BLANK PNL-LIA-SF300 01449/AC00296 08:50

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 2 LOCATION B

SURFACE DESCRIPTION VERY DARK-BLACK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P= -0.1 F= -0.4 J= .000

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 3 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SIM PSIG START 1400 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.O	Real-Time (ppmv) F.O	JEROME H_2S ~~Sample Number~~	Comments
1032	5.0	0								
1038	↓	1								
1044		2								2B
1050		3					43	138		
1056		4					48	118		INSTRUMENTS
1102		5					39	107	.041	ONLY
									.039	
									.037	

COMMENTS: UNCONTROLLED.

VERY STRONG ODOR FROM THIS MATERIAL.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 2 LOCATION B

SURFACE DESCRIPTION VERY DARK-BLACK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P: -0.12, F: 0.05 J: .000

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 3 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER S/M PSIG START 500 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome H_2S ~~Sample~~ Number	Comments
1036	5.0	0								
1042	↓	1								
1048		2								2B
1054		3					110	136		
1100		4					58	120		CANISTER
1106		5					40	111		PNL-L2B-SFU
									.044	01373/SC00413
1110									.041	ODOR BAG
1112									.038	SULFUR BAG SFUS

COMMENTS: UNCONTROLLED

VERY ODOROUS MAT'L

~~SITE DIAGRAM~~

SEE PREVIOUS

UPS 1-800-742-5877

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS Hart

LOCATION ASCON LAGOON # 2 LOCATION B

SURFACE DESCRIPTION VERY DARK, STICKY, PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE Jerome H_2S 631-x ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 4 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SIM PSIG START 1350 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome H_2S ~~Sample~~ Number	Comments
11:12	5.0	0								
11:18	↓	1								2B
11:24		2								
11:30		3								
11:36		4					28	95		CANISTER
11:42		5					35	105		PNL-L2B-SFC1
							35	98	.041	00531/SC00549
11:50									.037	COOR BAG "
11:53									.033	SULFUR BAG, SCS
11:59										SULFUR → PPL " " SCJSR

COMMENTS: APPLIED ALABASTER
CSI - PRODUCT

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION AXON LAGOON # 2 LOCATION B

SURFACE DESCRIPTION VERY DARK BLACK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. 25174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC SUPPLIER SIM PSIG START PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P10	F10	Jerome H_2S ~~Sample Number~~	Comments
11:42	5.10	0								-29" Hg
11:48		1								
11:54		2								
12:00		3					2.6	2.7		CANISTER
12:06		4					2.3	1.7		PNL-LZD-SFC2
12:12		5					1.7	1.0		01168 / AC00161
									.016	
12:19									.003	ODOR BAG
12:22									.003	SULFUR BAG SFC25

COMMENTS: RISMAN FOAM

~~SITE DIAGRAM~~

SEE PREVIOUS

END CLEANING (OB. - BEAMY)

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 2 LOCATION A

SURFACE DESCRIPTION THICK, VERY STICKY, BLACK PETROLEUM WASTE.

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. 8874 TYPE BRUEL & K. ID NO. 630-1275

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', 15 mph Wind at Seal, 2 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SM PSIG START 900 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.D	F.D	Jerome H_2S ~~Sample Number~~	Comments
1449	5.0	0								
1455	↓	1								2A
1501		2								
1507		3								
1513		4					99	245		INSTRUMENT
1519	↓	5					99	236	.027	DRIFT
							92	219	.024	
									.027	

COMMENTS:

UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

LH

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 2 LOCATION A

SURFACE DESCRIPTION VERY TACK, VERY STICKY, BLACK PETROLEUM WASTE.

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA-1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☒ Cloudy ☐ Wind at 5', 15 mph Wind at Seal, 2 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 37772 SUPPLIER S/M PSIG START 2000 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome H_2S ~~Sample Number~~	Comments
1454	5.0	0								-22" Hg
1500	↓	1								
1506		2								2A
1512		3					2.2	615		
1518		4					2.0	626		PNL-L2A-SFU
1524		5							.064	01288/ACCOMO
									.045	ODOR BAG "
									.044	SULFUR BAG "
										"SFUS

REP. ODOR SFURO

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 2 LOCATION A

SURFACE DESCRIPTION VERY STICKY, HEAVY BLACK PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE JEROME 631-X ID NO. 631-1875

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P-13 - F-18 & S-000

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 20 mph Wind at Seal, 2 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 37772 SUPPLIER SM PSIG START 1900 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	Jerome H_2S ~~Sample Number~~	Comments
15:39	5.0	0								
15:45	↓	1								
15:51	↓	2								
15:57	↓	3								
16:03	↓	4					9	11		CANISTER
16:09	↓	5					8	9	.004	PNL-L2A-SFC2
									.004	01291/AX00037
									.004	ODOR BAG
										SULFUR BAG SFC23

COMMENTS: APPLIED RUSMAR FOAM - APPROX 3"

~~SITE DIAGRAM~~

SEE PREVIOUS

LA

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-26-04 SAMPLERS HWR

LOCATION ASCON LANDFILL, LAGOON # 2 LOCATION A

SURFACE DESCRIPTION VERY STICKY, HEAVY BLACK PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. R5174 TYPE Jerome H_2S ID NO. 63-1773

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SVM PSIG START 700 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.O	F.O	H_2S ~~Sample Number~~	Comments
15:44	5.0	0								
15:50	↓	1								2A
15:56		2								
16:02		3								01159/AC00225
16:08		4					39	95		CANISTER
16:14		5					42	98	.013	PNL-L2A-SFC1
							42	101	.015	ODOR BAG
									.016	SULFUR BAG
										SFC15

COMMENTS: APPLIED ALABASTER CSI PRODUCT UNTIL SURFACE SOAKED

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON 3 LOCATION B

SURFACE DESCRIPTION DARK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL / LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 1 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER Sim PSIG START 900 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.D	Real-Time (ppmv) F.D	JEROME H_2S ~~Sample Number~~	Comments
1024	5.0	0								
1030		1								
1036		2								
1042		3								LOB
1048		4					225	100		INSTRUMENTS
1054		5					58	92	.009	ONLY
									.009	
									.009	

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS.

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION DSCON LAGOON 3 LOCATION B

SURFACE DESCRIPTION DARK, MOIST PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA-1000 I.D. NO. _____ TYPE JEROME H_2S ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 1 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER G/M PSIG START 2000 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.O	F.O	JEROME H_2S ~~Sample Number~~	Comments
1028	5.0	0								
1034	↓	1								
1040		2								
1046		3								L3B
1052		4					74	92		CANISTER
1058		5					76	91		PNL-L3B-SFU
									.004	01180/SC00333
									.007	ODOR BAG "
									.008	SULFUR BAG SFUS

COMMENTS: UNCONTROLLED

JEROME AMBIANT = 0.003

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON 3 LOCATION B

SURFACE DESCRIPTION DARK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 3 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER Sim PSIG START 800 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) D.O	Real-Time (ppmv) F.O	JEROME H2S ~~Sample~~ Number	Comments
1106	5.0	0								-29" Hg
1112	↓	1								
1118		2								
1124		3								
1130		4					3.2	-0.5		
1136	↓	5					2.9	-0.4		PNL-L38-SFC2
									.002	00373/SC00062
									.001	CPOR BAG "
										SULFUR BAG SFC2S

COMMENTS:

APPLIED RUSSWIR FOAM.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON 3 LOCATION B

SURFACE DESCRIPTION DARK, STICKY, PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL / LAGOON

INSTRUMENT TYPE TVA-1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 1 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER Sim PSIG START 1800 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome H_2S ~~Sample Number~~	Comments
11:19	5.0	0								
11:25	↓	1								
11:31		2								
11:37		3					32	96		
11:43		4					34	96		CANISTER
11:49		5					31	94		PNL-L30-CS1
									.005	00064 / SC00132
									.007	ODOR BAG "
									.006	SULFUR BAG CS1S

COMMENTS: APPLIED ALABASTER CS2 PRODUCT PRIOR TO TEST.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 3 LOCATION A

SURFACE DESCRIPTION DARK, SEMI-FLOWING PETROLEUM WASTE - CONTAIN

CURRENT ACTIVITY FORMER LANDFILL LAGOON / MUCH BLACK, TAR-LIKE SUBSTANCE

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 2 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER SIM PSIG START 1700 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.D	Real-Time (ppmv) F.D	JEROME H_2S ~~Sample Number~~	Comments
1412	5.0	0								-29" Hg
1418	↓	1								
1424		2								3A
1430		3					15	76		
1436		4					16	81		CANISTER
1442		5					14	65		PNL-L3A-SFU
									.022	00157/SC00104
									.021	OXX BAG "
									.019	SULFUR BAG " + SFUS

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON #3 LOCATION A

SURFACE DESCRIPTION STICKY, SEMI-FLOWING HIGH-PETROLEUM WASTE*

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 3 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER S/M PSIG START 700 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P10	Real-Time (ppmv) F10	JEROME H2S ~~Sample Number~~	Comments
1415	5.0	0								BLANK SULFUR:
1421	↓	1							PNL-L200-SFUS	
1427		2								BLANK ODOR:
1433		3					14	85	PNL-L200-SFU	
1439		4					14	74	THEN	THROUGH SAMPLE LINE
1445		5					11	63		
									.028	INSTRUMENTS
									.024	ONLY
									.026	

COMMENTS: UNCONTROLLED

* THIS MATERIAL CONTAINS A GREAT DEAL OF BLACK, TAR-LIKE MATERIAL.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 3 LOCATION A

SURFACE DESCRIPTION STICKY, STILL-FLOWING, BLACK PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SIM PSIG START 600 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome ~~Sample Number~~	Comments
1452	5.0	0								-29" Hg
1458	↓	1								
1504		2								
1510		3								
1516		4					14	66		CANISTER
1522		5					14	71		PNL-L3A-SFC1
									.027	01233/SC00561
									.023	ODOR BAG "
									.023	SULFUR BAG SFC13

COMMENTS: APPLIED ALABASTER CS1

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 3 LOCATION A

SURFACE DESCRIPTION DARK, SEMI-FLOWING PETROLEUM WASTE.

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 5 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56525 SUPPLIER S/M PSIG START 1600 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	JEROME H_2S ~~Sample Number~~	Comments
1511	5.0	0								-29" Hg
1517	↓	1								
1523		2								
1529		3					2.4	19		CANISTER
1535		4					2.3	18		PNC-L3A-SFC2
1541		5					2.6	25	1003	01547/3C00491
									.002	ODOR BAG
									.001	SULFUR BAG

COMMENTS: APPLIED RUSMAR FOAM ~ 2" TO 1"

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CES/HWR

LOCATION AXON LANDFILL

SURFACE DESCRIPTION — TEFLON SHEET ON FLUX BOX LID

CURRENT ACTIVITY BACK OF RENTAL VEHICLE

INSTRUMENT TYPE TVA 1000 I.D. NO. B5174 TYPE JEROME 631-X ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph
N/A - BACK OF VEHICLE

TEMP RAIN: Yes ☐ No ☒ N/A Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

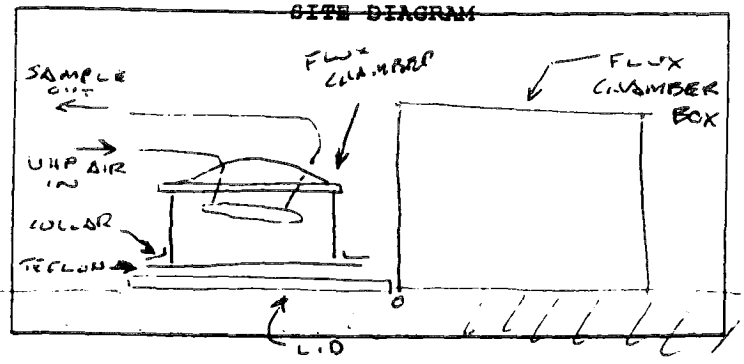
SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 114701 SUPPLIER S/M PSIG START 300 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) FID	FID	Sample Number	Comments
0812	5.0	0								
0818	↓	1								
0824		2								
0830		3								
0836		4								
0842	↓	5					-0.20	2.57	PNL15-100 SFU	
										00219/SX.00203
						JEROME =		.000		
								.000		
								.000		

COMMENTS:

SITE DIAGRAM



20 D.R BAGS
4 SULFUR BAGS

T2
UNC

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CES/HWR

LOCATION ABOV ~~LAGOON 5 TRENCH 2~~ LAGOON 4 TRENCH 3

SURFACE DESCRIPTION UNCONSOLIDATED

CURRENT ACTIVITY

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JG31X ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. ~~B~~ D PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL Y/FOIL WRAP CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 52523 SUPPLIER SM PSIG START 1800 PSIG STOP _____

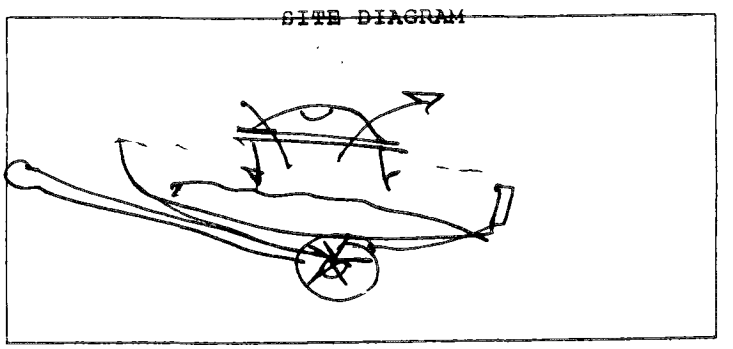
Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	(ppmv) H2S ~~Sample Number~~	Comments
1238	5.0	0								
1244		1								
1250		2								
1256		3							0.004	
1302		4							0.003	
1308		5					41	215	0.005	(PNL-LAB-SFL) NO SAMPLE HERE — OTHER PAD

COMMENTS:

MIXED MUDS/OIL
NO ADDITION OF WASTE —
RIGHT TO FOAM

JG31X ~0.0024 ppmv
AMBIENT

~~SITE DIAGRAM~~



-40.

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CES / HWR

LOCATION ASCON LANDFILL LAGOON 4, LOCATION B

SURFACE DESCRIPTION PETROLEUM DRILLING WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE Jerome H_2S ID NO. _____

INSTRUMENT BASELINE → Jerome ANB = 1004

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P- F=

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 10 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP 1905 SUPPLIER SIM PSIG START 1400 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.D	F.D	Jerome H_2S ~~Sample Number~~	Comments
1245	5.0	0								
1251	↓	1								
1257		2								
1303		3								
1309		4					44	237		PNL-LAB-SFU
1315		5					47	221		01533/SC004177
									.006	
1328									.005	ODOR BAG PNL-LAB-SFU
									.004	SULFUR BAG PNL-LAB-SFUS

COMMENTS:

LAGOON 4 LOCATION B

UN CONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

4D

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CES/HWR

LOCATION ASCON ~~LAGOON 5 TRENCH 2~~ LAGOON 4 TRENCH B

SURFACE DESCRIPTION FOAM-RUSMAR

CURRENT ACTIVITY 1-2"

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE J631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B D PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL Y-FOIL WRAP CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

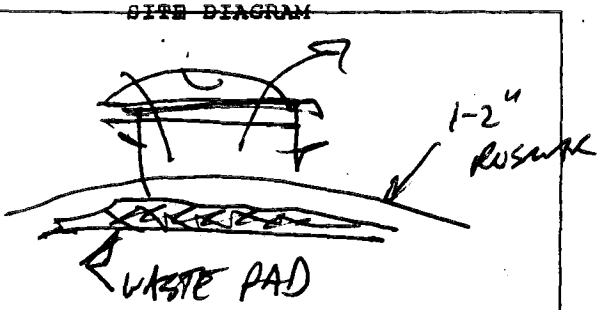
SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 8523 SUPPLIER SM PSIG START 1700 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	(ppm) H_2S ~~Sample Number~~	Comments
1321	5.0	0								
1327		1								
1333		2								
1339		3							0.000	
1345		4							0.000	PNL-LAB-SFC2
1351		5					1.8	1.7	0.000	PNL-LAB-SFC1 CES
										#00497 / SC0086
										ODOR BAG
										SULFUR BAG

COMMENTS: RUSMAR (W/OUT ADDED WASTE POST UNCONTROLLED TEST)

~~SITE DIAGRAM~~



SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CBS / HWR

LOCATION ASCON LANDFILL LAGOON #4 LOCATION B

SURFACE DESCRIPTION PETROLEUM DRILLING WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE JEROME H_2S ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 5 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP Id 09015 SUPPLIER S/M PSIG START 1100 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.O	F.O	JEROME ~~Sample~~ H_2S ~~Number~~	Comments
1334	6.0	0								
1340	↓	1								
1346		2								
1352		3								
1358		4					77	415		
1404		5					72	381		PNL LSB-SFC1
									.009	00382/3C00118
1417									.008	ODM BAG "
1419									.007	SULFUR BAG " -SFC1S

COMMENTS: ADD ALABASTER
CS1 w/o MICROBES.

NOTE = "CONTROLLED" VALUES EXCEED "UNCONTROLLED" AGAIN. PERHAPS ALABASTER CONTRIBUTING CONTAMINATION OR REACTING W/WASTE MATL

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CB3/AWR

LOCATION ASCOW LAGOON #4, TRENCH A

SURFACE DESCRIPTION UNCONTROLLED

CURRENT ACTIVITY

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE J631X ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL Y CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SM PSIG START — PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	(ppmv) H_2S ~~Sample Number~~	Comments
1442	5.0	0								
1448		1								
1454		2								
1500		3								
1506		4								CANISTER
1512		5					14	70		PNL-L4A-SFU
							15	74	.005	00193/SC00045
1521									.007	ODOR BAG "
									.007	SULFUR BAG " STUS

COMMENTS:

TRENCH 4 LOCATION A
UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

TM

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CBS / HWR

LOCATION ASCON LANDFILL LAGOON #4 LOCATION A

SURFACE DESCRIPTION

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE JEROME H_2S ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P: F:

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☐

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP SS 19015 SUPPLIER Sim PSIG START 600 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.ID	F.ID	Jerome H_2S ~~Sample Number~~	Comments
1443	5.0	0								
1449	↓	1								
1455		2								
1501		3					10	43		INSTS.
1507		4					10	42		ONLY
1513	↓	5					9	39		
									.006	4A
									.008	
									.008	

COMMENTS: 4A UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS.

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CES/KWC

LOCATION ASCON LAGOON #4, TRENCH A

SURFACE DESCRIPTION @ RUBMAR

CURRENT ACTIVITY

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE J631X ID NO. _____

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL Y/ FOIL WRAP CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SM PSIG START 1350 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	(ppmv) H_2S ~~Sample~~ Number	Comments
1534	5.0	0								
1540	↓	1								
1546		2								
1552		3								
1558		4							0.001	PNL-L4A-SFC 2
1624		5					6.3	29	0.000	~~PNL-L5A~~
									0.000	TMOL BAC
										SULFUR BAC

COMMENTS: 1"-2" RUBMAR

*DEFOAMED @ 1556 ~56-10%

~~SITE DIAGRAM~~

SAME

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CPS / HWR

LOCATION ASCON LAGOON # 4 LOCATION A

SURFACE DESCRIPTION PETROLEUM DRILLING WASTES

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME H_2S ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS JEROME = .002

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 4 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP ss 19015 SUPPLIER SM PSIG START 350 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.O	Real-Time (ppmv) F.O	Jerome H_2S ~~Sample Number~~	Comments
1535	5.0	0								
1541	↓	1								
1547		2								
1553		3					10	44		
1559		4					11	48		
1605		5					11	48		PNL14A-SFC1
									.004	00450/SC00534
16:15									.005	ODOR BAG. "
									.006	SULFUR BAG. " + SFC13

COMMENTS: APPLIED ALABASTER CO1

~~SITE DIAGRAM~~

SEE PREVIOUS.

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 5 LOCATION B

SURFACE DESCRIPTION DARK, MOIST, PETROLEUM WASTE MAT'L

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA 1000 I.D. NO. B3174 TYPE JEROME H2S ID NO. 631-1775

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P: F: J:

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☐

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

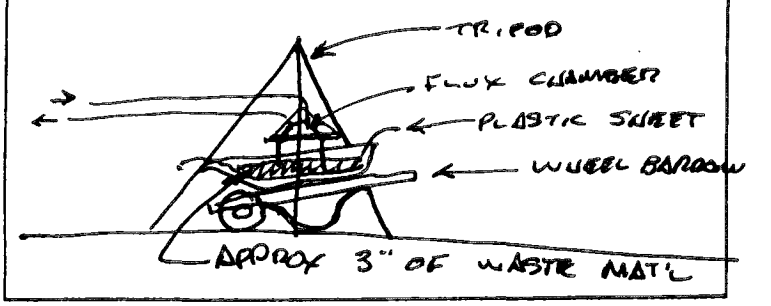
SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SIM PSIG START 1200 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	JEROME H_2S ~~Sample Number~~	Comments
826	5.0	0								-28" Hg INIT
832	↓	1								
838		2								
844		3								CANISTER
850		4					15	57		PNL-L5B-SFV
856		5					18	58	0.71	002866/SC00571
									0.63	
									0.59	

COMMENTS: UNCONTROLLED

~~SITE DIAGRAM~~



SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 5 LOCATION B

SURFACE DESCRIPTION DARK, MOIST, PETROLEUM WASTE MAT'L

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. 25174 TYPE JEROME 631-X ID NO. 631-1475

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS P: F: J: .000

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

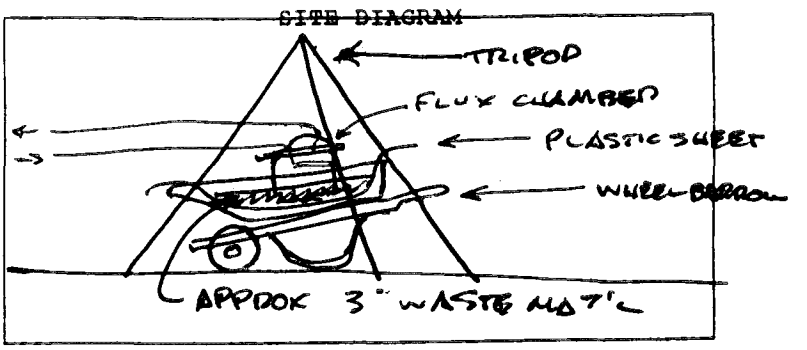
SWEEP AIR UHP lot 8795 SUPPLIER S/M PSIG START 500 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.O	F.O	Jerome ~~Sample Number~~ H_2S	Comments
827	5.0	0								
833	↓	1								
839		2								
845		3								INSTRUMENTS
851		4								ONLY
857		5					9	34		
							9	34	0.80	
							10	34	0.75	
									0.70	

COMMENTS:

UNCONTROLLED SOURCE

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LANDFILL, LAGOON 5 LOCATION B

SURFACE DESCRIPTION DARK, STICKY PETROLEUM WASTE

CURRENT ACTIVITY FORMER LAGOON

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME H_2S ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☒ No ☐ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 56523 SUPPLIER SM PSIG START 1100 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	Jerome H_2S ~~Sample Number~~	Comments
916	5.0	0								-29" Hg
924	↓	1								
930		2								
936		3					7	43		
942		4					8	45		
948		5					8	43		PNC-L5B-SFC2
									0.15	00260/SC00172
1005									.050	ODORBAG "
1001									.044	SULFUR BAG SF025

COMMENTS: RUSMAR FOAM APPLIED - APPROX 1" DISSIPATED AROUND EDGE OF CHAMBER W/IN ~ 20 MINS.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-25-04 SAMPLERS HWR

LOCATION ASCON LAGOON # 5 LOCATION B

SURFACE DESCRIPTION DARK, MOIST PETROLEUM WASTE

CURRENT ACTIVITY FORMER LANDFILL LAGOON

INSTRUMENT TYPE TVA-1000 I.D. NO. _____ TYPE Jerome H_2S ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 1 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☒ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP # 8595 SUPPLIER SIM PSIG START 250 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome ~~Sample Number~~	Comments
923	5.0	0								
929	↓	1								
935		2								
941		3								
947		4	SWAPPED OUT							
953		5	AIR CYL		HERE		30	75		PNL-LSB-SFC1
			CC56525				29	65	0.25	00591/SC00261
1000							27	63	0.25	ODOR BAG - "
1006									0.25	SULFUR BAG SFC1S

COMMENTS: APPLIED ALABASTER PRODUCT

~~SITE DIAGRAM~~

~~SITE~~ PREVIOUS

T1
UNCONTR

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CES/HWR

LOCATION ASION, LAGOON #5 TRENCH #A - APPROX 1/2 FULL BARREL

SURFACE DESCRIPTION PETROLEUM DRILLING MUD APPEARANCE

CURRENT ACTIVITY EXCAVATION

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE PROME631X ID NO. _____

INSTRUMENT BASELINE QC

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☑ REPLICATE MEASUREMENTS ☑
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☑ No ☐ _____

CHAMBER SEAL YES / FOIL DIAPER CONDENSATION: Yes ☑ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

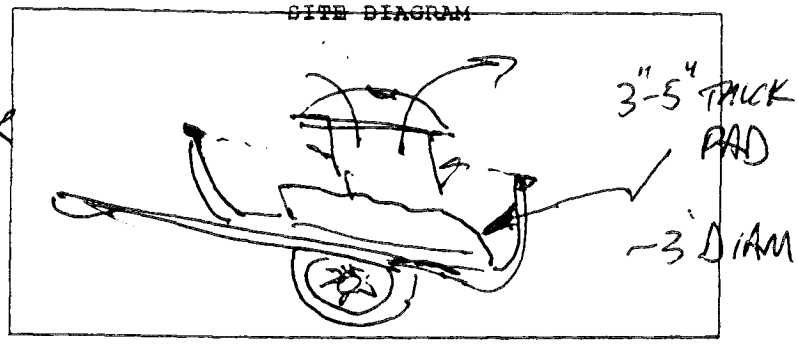
SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR VAP CC 92523 SUPPLIER SA PSIG START 2000 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	(ppm) H_2S ~~Sample Number~~	Comments
1026	5.0	0								
1032	↓	1								
1038		2								
1044		3		NA					0.000	
1050		4							0.000	
1056		5					9.3	56	0.000	PNL-LSA-SFL
										#00296/SC00140
										ODOR BAG
										H_2S BAG

COMMENTS: EXCAVATED @ 1000
IN DRUM / SEALED
WASTE PAD 3"-5", 3' DIAMETER

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CRS / WR

LOCATION ASCON LAGOON # 5, LOCATION A

SURFACE DESCRIPTION DARK SURFACE PETROLEUM DRILLING WASTES

CURRENT ACTIVITY FORMER LANDFILL

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE JEROME ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. D PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 4 mph Wind at Seal, 0 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

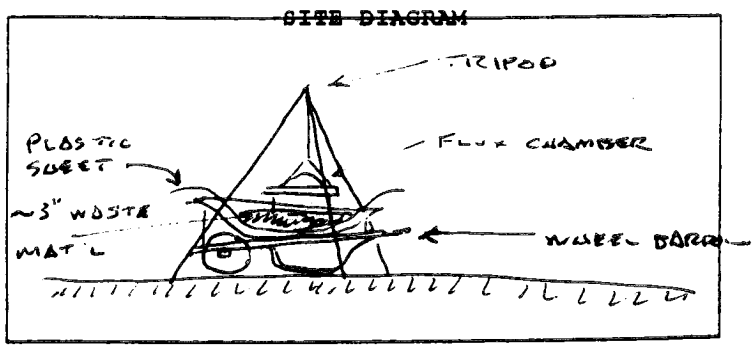
SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 14701 SUPPLIER S/M PSIG START 200 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	JEROME ~~Sample Number~~	Comments
1026	5.0	0								
1032	↓	1								
1038		2								
1044		3								INSTRUMENTS
1050		4								ONLY
1056	↓	5					7.4	51	.000	PNL-L5A-SFU
									.001	
									.001	

COMMENTS: MAT'L EXCAVATED ~10:00
UNCONTROLLED

~~SITE DIAGRAM~~



T1
C2 (RUSMAR

SURFACE FLUX MEASUREMENT DATA FORM

DATE 5/24/04 SAMPLERS CES/HWR

LOCATION IASCON LAGOON #5, TRENCH #A

SURFACE DESCRIPTION RUSMAR' 654

CURRENT ACTIVITY FOAM COVERAGE

INSTRUMENT TYPE TVA 1000 I.D. NO. _____ TYPE J631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL Y / FOIL GUARD CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP 75° RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

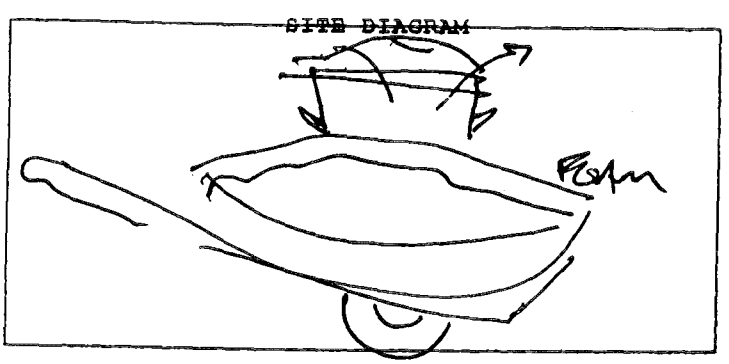
SWEEP AIR UHP CC 56523 SUPPLIER SM PSIG START 2000 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) PID	Real-Time (ppmv) FID	H_2S ~~Sample Number~~	Comments
1140	5.0	0								
1146	↓	1								
1152		2								
1158		3							0.000	
1204		4							0.000	(#126/SC00180)
1210		5	85°	85°	85°	75°	12	-0.23	0.000	PNL-LSA-SFC2
										ODOR BAGS
										SULFUR BAGS

COMMENTS: * WASTE ADDED FOR THIS TEST

1-2" RUSMAR FOAM

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CES / HWR

LOCATION ASCON LAGOON #5 LOCATION A

SURFACE DESCRIPTION DARK, SMELLY, PETROLEUM DRILLING WASTE

CURRENT ACTIVITY LAGOON ON LANDFILL SITE

INSTRUMENT TYPE TVA1000B I.D. NO. _____ TYPE JEROME 631X ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒

AMBIENT CONCENTRATIONS P: 0.7 F: -1.2

CHAMBER I.D. B PHOTO TAKEN: Yes ☒ No ☐ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 6 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP JJ ~~SE~~ 19015 SUPPLIER SCA PSIG START 2000 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.D	F.D	JEROME 631X ~~Sample~~ Number	Comments
11:12	5.0	0								
11:18	↓	1								
11:24		2								
11:30		3								CAN
11:36		4								PNL-L5A-SFC1
11:42		5					122	96	.000	004-01 / SC00405
									.000	BAG SAMPLE
									.000	PNL-L5A-SFC 1
									SULFUR	BAG PNL5A-SFC1S

COMMENTS:

APPLIED ALABASTER CS2 - W/O MICROBES

NOTE THAT "CONTROLLED" VALUES WERE HIGHER THAN "UNCONTROLLED". PERHAPS ALABASTER IS ADDING CONTAMINANTS OR REACTING W/ WASTE MAT'L.

~~SITE DIAGRAM~~

SEE PREVIOUS

SURFACE FLUX MEASUREMENT DATA FORM

DATE 05-24-04 SAMPLERS CES/HWR

LOCATION ASCON LANDFILL LAGOON #5 LOCATION A

SURFACE DESCRIPTION RETEST UNCONTROLLED SOURCE

CURRENT ACTIVITY PETROLEUM DRILLING WASTE

INSTRUMENT TYPE TVA1000 I.D. NO. _____ TYPE JEROME ID NO. _____

INSTRUMENT BASELINE _____

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS P- 0.4 F: -0.6

CHAMBER I.D. B PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', 6 mph Wind at Seal, 1 mph

TEMP _____ RAIN: Yes ☐ No ☒ Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP JJ ~~SS~~ 19015 SUPPLIER SM PSIG START 1700 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Temperature (°F) Chamber Air	Temperature (°F) Ambient Surf	Temperature (°F) Ambient Air	Real-Time (ppmv) P.D	Real-Time (ppmv) F.D	Jerome ~~Sample~~ Number	Comments
1206	5.0	0								
1212	↓	1								
1218		2								
1224		3					20	31		INSTRUMENTS
1230		4					81	32		ONLY
1236	↓	5					40	34		
									.000	5A
									.000	
									.000	

COMMENTS:

RETEST 5A UNCONTROLLED

~~SITE DIAGRAM~~

SEE PREVIOUS

PRE SAMPLE CALIBRATION
05·25·04
ASCON TVA-1000

	PID	FID
AMBIENT	-0.02	0.21
ZERO AIR	0.03	0.11
100 PPM ISOBUTYLENE	109	132
100 PPM METHANE		93
1.0 % METHANE		9290

POST SAMPLE CALIBRATION

	PID	FID
AMBIENT	0.00	0.01
ZERO AIR	0.13	-0.27
100 PPM ISOBUTYLENE	74	(114)
100 PPM METHANE	(0.32)	72
1.0 % METHANE		6100

PRETEST CALIBRATION
ASCON
05-26-04 TVA-1000

	P.D	F.D
AMBIENT	-0.06	-0.70
ZERO AIR	-0.01	0.44
100 ppm ISOBUTYLENE	130	(142)
100 ppm METHANE	(-0.06)	99
1.0% METHANE	(-0.22)	9338

POST TEST CALIBRATION

	P.D	F.D
AMBIENT	0.98	3.7
ZERO AIR	1.20	3.15
100 ppm ISOBUTYLENE	95	
100 ppm METHANE		91
~~100 ppm~~ 1.0% METHANE		8700

PRE SAMPLE CALIBRATION

TVA-1000 05-27-04

	PID	FID
AMBIENT	0.55	1.27
ZERO AIR	0.23	0.62
100 PPM ISOBUTYLENE	126	(156)
100 PPM METHANE	(0.13)	110
1.0% METHANE	(0.02)	8620

POST SAMPLE CALIBRATION

	P.D	F.D
AMBIENT	0.20	1.85
ZERO AIR	0.40	1.86
100 PPM ISOBUTYLENE	116	
100 PPM METHANE		107
1.0% METHANE		9335

PRE SAMPLE CALIBRATION
05-24-04
ASTON LANDFILL
TVA-1000

	P.D	F.D
AMBIENT AIR	-0.09	-0.65
ZERO AIR	-0.08	-2.61
100 ppm ISOBUTYLENE	76.5	(140)
100 ppm METHANE	(-0.13)	107
1.0% METHANE	(-0.16)	1.10%

POST SAMPLE CALIBRATION
5-24-04

	P.D	F.D
AMBIENT AIR	0.16	1.86
ZERO AIR	0.24	1.8
100 ppm ISOBUTYLENE	52	(113)
100 ppm METHANE		84
1.0% METHANE.		0.80%

CE Schmidt, Ph.D.
Environmental Consultant

ATTACHMENT A

EMISSION MEASUREMENT DATA SHEETS

Phase VIII- Pit F Downhole Flux Testing/Control Agent Testing

19200 Live Oak Road Red Bluff, CA 96080 (530) 529-4256 Fax- 4878

F1 U

DATE 06-30-04 SAMPLERS HWR

LOCATION ASCON, STYRENE POND PNL-F1

SURFACE DESCRIPTION DRY/DAMP SOIL; 2 LAYERS OF POND LINER

CURRENT ACTIVITY ROLLED BACK BEFORE AUGERING

INSTRUMENT TYPE TVA1000 ID NO. R5872 TYPE Jerome 631X ID NO. 1707

AMBIENT P: 0.41 F: 1.57 J: 0.003

8'

START TIME 10:40

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Jerome Sampler Number	Comments
0:20	1.0				45	10		
0:40					231	120		
1:00					235	124		
1:20					225	122		
1:40					208	116		
2:00					215	121		
2:20					194	110		
2:40					186	107		
3:00					178	105		
3:30					169	90		
4:00					159	94		
4:30					153	92		
5:00					151	92		
5:30							0.003, 0.004	
6:00								
6:30								
7:30					53	35		
8:00					80	49		
8:30					105	69		
9:00					114	73		
9:30					117	73		
10:00					124	78		

TEST COMMENTS THIS LOCATION W/IN FENCED AREA @ TOE OF STYRENE POND BERM (NE CORNER OF POND)

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

F1-13

DATE 06-30-04 SAMPLERS HWR

LOCATION ASCON PNL-F1

SURFACE DESCRIPTION DRY/DAMP SOIL UNDERNEATH POND LINER

CURRENT ACTIVITY

INSTRUMENT TYPE TVA1000 ID NO. R5872 TYPE JEROME 631X NO. 1707

AMBIENT P= 0.75 F= 2.6 J= 0.005

13'

START TIME 11:03

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	~~Sample Number~~	Comments
0:20					85	52		
0:40					522	235		
1:00					487	250		
1:20					306	214		
1:40					361	194		
2:00					310	172		
2:20					311	172		
2:40					300	169		
3:00					292	166		
3:20					287	163		
4:00							CANISTER	
							PNL-F1-13-T	
							06767, 1SC0010	
							PNL-F1-13-TR	
							06770, 1SC0013	
							ODOR BAG	16:10
							PNL-F1-13O	
							PNL-F1-13OR	16:20
							SULFUR BAG	
							PNL-F1-13S	
							PNL-F1-13SR	
21:13							0.004, 0.005	
22:0					175	100		
22:30					132	85		
23:00					139	89		
24:00					178	112		

TEST COMMENTS

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-29-04 SAMPLERS HWR

LOCATION ASCOM PNL-F3

SURFACE DESCRIPTION DRY OPEN SOIL, NW CORNER OF STYRENE POND

CURRENT ACTIVITY FORMER LANDFILL, STYRENE POND

INSTRUMENT TYPE TVA 1000 ID NO. 25872 TYPE HEADSPACE ID NO.

AMBIENT P= 0.38, F= 0.89

14'

START TIME 831

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20					15.3	6.0		
0:40					270	113		
1:00					338	143		
1:20					352	148		
1:40					360	149		
2:00					363	148		
2:30					371	148		
3:00					379	148		
3:30					381	149		
4:00					384	150		
4:30					391	150		
5:00					395	149		
5:30					406	152		
6:00					404	153		
6:30					404	152		
7:00					415	152		
7:30					427	154		

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-29-04 SAMPLERS HWR

LOCATION ASCON PNL-F3

SURFACE DESCRIPTION DRY OPEN SOIL, NW CORNER OF STYRENE PIT

CURRENT ACTIVITY FORMER LANDFILL, STYRENE PIT

INSTRUMENT TYPE TVA 1000 ID NO. 25872 TYPE _____ ID NO. _____

AMBIENT P = 0.58 F = 13.3

17'

START TIME 8:49

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1.				380	67		
0:40					1601	263		
1:00					1780	299		
1:20					1923	315		
1:40					1986	321		
2:00					2024	327		
2:30					2074	332		
3:00					2073	334		
3:30					2081	337		
4:00					1430	230		
4:30					1310	210		
5:00					810	149		
5:30					1274	230		
6:00					1014	207		
6:30					828	178		
7:00					730	154		
7:30					581	135		
8:00					470	111		
8:30					459	100		
9:00					460	107		

TEST COMMENTS _____

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

(13½ BLS)

DATE 06-28-04 SAMPLERS CES/HWR

LOCATION ASCOR PHASE 8 PNL - F4

SURFACE DESCRIPTION DRY SOIL SOUTH

CURRENT ACTIVITY FORMER LANDFILL, WEST OF STYRENE PIT

INSTRUMENT TYPE NA 1000 ID NO. RS872 TYPE TG31X ID NO.

AMBIENT FID 2.3 ppmv PID 0.36 ppmv

13½ DEEP ≈0.63 LPM * POST SPLIT-SPOON - NOT FLAT SURFACE DEPTH

	Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Ambient	Real-Time (ppmv) FID	PID	Sample Number	Comments
1101	0.5	1.0				300	6.0		
	1.0	↓				382	4.0		
1103	2.0					423	4.7		
	2.5					454	5.3		
1104	3.0					478	6.1		
	3.5					480	6.4		
1105	4.0					484	6.8		
*	4.5					490	7.0		
1106	5.0					478	7.4		
	5.5					470	7.6		
1107	6.0					466	7.7		
	6.5					460	7.9		
1108	7.0					450	8.0		
	7.5					440	8.2		
1109	8.0					440	8.3		
	8.5					424	8.4		NO GRAB SAMPLES SCHEDULED
1110	9.0					404	8.4		
	9.5					398	8.4		
1111	10					390	8.4		

TEST COMMENTS NOTE - POST SPLIT SPOON SAMPLING BLACK OILY WASTE/SOIL

SUMMARY: PEAK EMISSIONS FID 490 PID 8.4 TIME FID 4.5 PID 10 MIN TAU

STEADY STATE EMISSIONS TIME TAU

* SOURCE

DEAN-GC

DATE 06-28-04 SAMPLERS CES / HWR

LOCATION ASCON PNL-F4

SURFACE DESCRIPTION DRY SOIL, SOUTH OF STYRENE PIT (PIT F)

CURRENT ACTIVITY FORMER LANDFILL STYRENE PIT

INSTRUMENT TYPE TVA 1000 ID NO. R8872 TYPE FAGLUE 63-X ID NO. 1707

AMBIENT P = F =

15'

START TIME 13:51

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	~~Sample~~ Number	Comments
0:20	1.0				343	18		
0:40					1305	95		
1:00					2056	160		
1:20					2490	204		
1:40					2518	211		
2:00					2501	221		
2:30					2408	226		
3:00					2365	227		
3:30					2311	229		
4:00					2276	230		
								CANISTER SAMPLE PNL-F4-15-T CAN # 06766 / 1SC0009
8:40					57	45		
								3PCOR BAG PNL-F4-15-O
								SULFUR BAG PNL-F4-15-S
15:00					1350	200		
15:30					1330	210		
								← JEROME SAMP. - BATTERY DIED.
17:00					1106	180		
17:30					1150	208		
18:00					1201	216		
18:30					1220	220		

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 6/28/04 SAMPLERS CES/HWR

LOCATION ASCON PHASE 9 PNL-F4

SURFACE DESCRIPTION SOIL (W SLAG) PIT F

CURRENT ACTIVITY NA 16.5'

INSTRUMENT TYPE TVA 1000 ID NO. _____ TYPE JL-31X ID NO. _____

AMBIENT _____

F4-16'

16.5'

↑ = 0.63 LPM

ACTUAL	Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
1120	0	1.0	0			3.0	0.3		
	0.5	↓				600	92		
1121	1.0					1510	200		
	1.5					1430	203		
1122	2.0					1450	206		
	2.5					1450	209		
1123	3.0					1460	211		
	3.5					1454	210		
1124	4.0					1482	212		
	4.5					1460	213		
1125	5.0								Jerome 0.022 ppmv ✓ 0.022 ppmv
1126	6.0					1000	110		
	6.5					660	120		
1127	7.0					1260	196		
	7.5					1300	206		
1128	8.0					1240	199		
1129	9.0					1360	213		
	9.5					1350	214		
1130	10					1370	215		* CHEMICAL (STYRENE ODOR)

TEST COMMENTS INTENTS - SOIL/BLACK OIL TYPE WASTE

* SOURCE TYPE

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-28-04 SAMPLERS CES / UWR

LOCATION ASCON PNL - F4

SURFACE DESCRIPTION DRY OPEN SOIL ON SURFACE,

CURRENT ACTIVITY FORMER LANDFILL, WEST OF STYRENE PIT

INSTRUMENT TYPE TVA 1000 ID NO. R5872 TYPE JEROME ID NO.

AMBIENT

18'

START 1:38

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Jerome Sample Number	Comments
0:20	1.0							
0:40					1776	228		
1:00					1431	217		
1:20					1184	200		
1:40					895	151		
2:00					828	143		
2:30					825	141		
3:00					821	140		
3:30					834	140		
4:00					847	140		
4:30					855	141		
5:00								
5:30							.012, .013,	
6:00								
6:30					369	70		
7:00					682	108		
7:30					816	127		
8:00					860	133		
8:30								
9:00					969	147		
9:30								
10:00					983	149		
10:30					1015	152		
11:00					1030	155		
11:30					1056	157		
12:00					1069	159		
12:30					1070	160		
13:00								

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

PIT F

DATE 06-28-04 SAMPLERS CFS / HWR

LOCATION ASCON PHASE 8 PNL-F5

SURFACE DESCRIPTION DRY OPEN SOIL ON SURFACE ADJACENT TO

CURRENT ACTIVITY FORMER LANDFILL STYRENE PIT

INSTRUMENT TYPE TVA 1000 ID NO. 25872 TYPE JEROME 631-X ID NO.

AMBIENT P = 0.18, FID = 0.97

13.5 DEEP T = .63 min

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:00	1.0				350	7.0		
0:40					3000+	129		
0:60				FLAMEOUT		60		
1:20								
5:00					175	24		
5:30					218	27		
6:00					209	28		
6:30								← ATTEMPTED JEROME SAMP. - WAS SHIPPED W/DEAD BATTERY
9:30					150	23		INST. CYCLED BUT WOULD NOT REBOOT.
11:50								CAN SAMPLE PNL-F5-13.5-T CAN # 06757 ISC0001
								ODOR BAG - PNL-F5-13.5-O
								SULFUR BAG. PNL-F5-13.5-S
16:40					102	21		

TEST COMMENTS RECHARGED JEROME IN OFFICE - SHOWED NO RESIDUAL SULFUR.

SUMMARY: PEAK EMISSIONS FID > 3000 PPM PID 129 PPM TIME ≈ 1 T = 1 TAU

STEADY STATE EMISSIONS TIME TAU

SOMEWHAT LIKE FID/PID

DATE 06-28-04 SAMPLERS CES / HWR

LOCATION ASCOM PHASE 8 PNL-F5

SURFACE DESCRIPTION DRY OPEN SOIL ON SURFACE

CURRENT ACTIVITY FORMER LANDFILL

INSTRUMENT TYPE TVA1000 ID NO. 25872 TYPE _____ ID NO. _____

AMBIENT _____

15' DEEP

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	~~Sample Number~~ JEROME	Comments
0:20	1.0				850	64		
0:40					750	62		
0:60					711	59		
1:20					692	60		
1:40					690	60		
2:00					670	60		
2:30					672	61		ATTEMPTED
3:00								JEROME HERE - BUT
								INSUFFICIENT BATTERY.
5:30					305	23		
6:00					621	57		
6:30					644	61		
7:00					650	63		
7:30					626	64		
8:00					624	65		
8:30					607	65		
9:00					584	64		
9:30					575	63		
10:00					577	64		

TEST COMMENTS RETURNED JEROME TO OFFICE & A.C. CHARGED - SHOWED NO RESIDUAL H_2S IN INSTRUMENT.

SUMMARY: PEAK EMISSIONS FID 850 ppmv PID 750 ppmv TIME 1 C TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

SOURCE PID! SOURCE-LIKE FID

DATE 06-28-04 SAMPLERS CRS / HWR

LOCATION ASCON PIT F PNL-F[redacted]6

SURFACE DESCRIPTION DRY OPEN SOIL, SOUTH OF STYRENE PIT (F)

CURRENT ACTIVITY FORMER LANDFILL - STYRENE PIT

INSTRUMENT TYPE TVA1000 ID NO. 125872 TYPE JEROME 631X ID NO.

AMBIENT P: 0.84 F: 4.30

10.5' 0.56 3.17

START TIME 13:34

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	~~Sample~~ Number	Comments
0:20	1.0				96	4.7		
0:40					154	7.3		
1:00					112	6.6		
1:20					91	6.0		
1:40					65	5.3		
2:00					54	4.7		
2:30					51	4.6		
3:00					49	4.4		
3:30					47	4.2		
4:00					46	4.0		
4:30					45	4.0		
5:00							0.009	, 0.009
5:30								
6:00								
6:30								
7:00					16.5	2.0		
7:30					28.9	2.7		
8:00					33.5	3.0		
8:30					34.5	3.0		
9:00					34.5	3.1		
9:30								
10:00								

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-28-04 SAMPLERS CES / HWR

LOCATION ASCON PNL-F7

SURFACE DESCRIPTION DRY, OPEN SOIL, SE CORNER OF STYRENE POND

CURRENT ACTIVITY FORMER LANDFILL, STYRENE POND

INSTRUMENT TYPE TVA 1000 ID NO. R5872 TYPE JEROME 631-X ID NO. 1707

AMBIENT P= 0.19, F= 2.46

10.5

START TIME 14:52

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	~~Sample Number~~ Jerome	Comments
0:20	1.0				85	12		
0:40					375	82		
1:00					192	52		
1:20					170	44		
1:40					135	35		
2:00					127	33		
2:20					114	30		
2:40					111	29		
3:00					111	29		
3:30					114	30		
4:00					117	31		
4:30					122	32		
5:00					120	33		
5:30					130	34		
6:00					133	35		
6:30					134	36		
7:00					135	36		

TEST COMMENTS STRONG ODOR FROM BORING

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-28-04 SAMPLERS CES / HWR

LOCATION ASCON PNL-F7

SURFACE DESCRIPTION DRY OPEN SOIL, S.E. CORNER OF STYRENE POND

CURRENT ACTIVITY FORMER LANDFILL, FORMER STYRENE PIT

INSTRUMENT TYPE TVA1000 ID NO. R5872 TYPE JEROME 63-X ID NO. 1707

AMBIENT P = 0.23 F = 3.14 UHP AIR = CC 12741

13.5'

15:05

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1				154	43		
0:40					182	59		
1:00					181	61		
1:20					184	62		
1:40					185	64		
2:00					187	65		
2:30					189	67		
3:00					188	67		
3:30					186	67		
4:00					185	66		
4:30					183	66		
5:00					182	65		
5:30					180	66		
6:00					179	64		
6:30					178	63		
7:00					170	63		
7:30					174	63		
8:00					174	63		

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-28-04 SAMPLERS CES/HWR

LOCATION ASCON PNL-F7

SURFACE DESCRIPTION S.E. CORNER OF STYRENE PIT

CURRENT ACTIVITY FORMER LANDFILL

INSTRUMENT TYPE _____ ID NO. _____ TYPE _____ ID NO. _____

AMBIENT _____

15'

START 15:18

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1.				82	7.3		
0:40					610	81.2		
1:00					656	91.7		
1:20					686	91.5		
1:40					759	89.6		
2:00					785	91.3		
2:20					945	95.7		
3:00					911	94.2		
3:30					495	77.5		
4:00					2660	45.1		
4:30					2153	48.4		
5:00					2125	61.7		
5:30					2140	69.9		
6:00					1805	82.8		
6:30					1745	85.5		
7:00					2065	86.1		
7:30					1703	99.1		

FOUND CHAMBER HAD BEEN COVERED W/ SANDY WATER.

TEST COMMENTS _____

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-30-04 SAMPLERS HWR

LOCATION ASCON PNL - F19

SURFACE DESCRIPTION DRY OPEN SOIL ADJACENT TO (SOUTH OF) PAVED DRIVEWAY

CURRENT ACTIVITY & EN-TRACEGATE FROM MAGNOLIA

INSTRUMENT TYPE TVA 1000 ID NO. R5872 TYPE JEROME 631-X ID NO. 1707

AMBIENT P = 0.45 F = 1.01

4.5

UHP AIR
CC12741, 1900 psi

START TIME 8:19

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1				14.1	1.8		
0:40					15.8	3.5		
0:60					13.1	3.4		
1:20					10.5	3.3		
1:40					9.1	3.0		
2:00					8.3	2.8		
2:20					7.9	2.8		
2:40					8.8	2.6		
3:00					9.1	2.6		
3:20					9.0	2.6		
4:00					8.5	2.5		
							CANISTER SAMPLE	
							PNL-F19-4-T	
							CAN # 06777	
							1SC00020	
							ODOR BAG	
							PNL-F19-4-O	8:25
							SULFUR BAG	
							PNL-F19-4-S	
12:31					10.7	2.7		
13:00					9.2	2.5		
13:30								
						JEROME NONFUNCTIONAL		
							AGAIN	
17:00					3.6	1.1		
17:30					3.4	0.9		

TEST COMMENTS ABOVE THE WASTE - COMPARE w/ PNL-F19-10-T

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

EMISSIONS ASSESSMENT

DATE 06-30-04 SAMPLERS HWR

LOCATION ASCON PNL-F19

SURFACE DESCRIPTION DRY OPEN SOIL, S OF PAVED DRIVEWAY

CURRENT ACTIVITY WEST OF ENTRANCE GATE

INSTRUMENT TYPE TVA-1000 T.E. ID NO. 25872 TYPE JEROME 631-X ID NO.

AMBIENT P: 0.71 F: 4.1 J: 0.002

10'

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
8:58 0:20	1.0				85	1.2		
0:40					407	66		
1:00					355	64		
1:20					309	61		
1:40					293	57		
2:00					272	50		
2:20					274	49		
2:40					278	50		1SC00017
3:00					273	50		06774
3:20					268	50		CANISTER
								PNL-F19-10-T
							ODOR BAG	
								PNL-F19-10-O
							SOLVENT BAG	
								PNL-F19-10-S
15:00					182	42		
15:30					169	42		
				JEROME			0.003,	0.003
18:00					83	21.5		
18:30					119	32		
19:00					134	36		

TEST COMMENTS IN WASTE MATL - COMPARE TO PNL-F19-4.5

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-30-04 SAMPLERS HWR

LOCATION ASCON ANGLE BORING INTO (UNDER)

SURFACE DESCRIPTION STYRENE PIT

CURRENT ACTIVITY FORMER LANDFILL

INSTRUMENT TYPE _____ ID NO. _____ TYPE _____ ID NO. _____

AMBIENT _____

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
			ATTEMPTED FLUX AT					
			19' OF AUGER IN GROUND (AT					
			ABOUT 45' ANGLE) BUT ENCOUNTERED					
			WATER IN BOTTOM OF BORING.					
			THIS DEPTH PRODUCED VERY					
			INTENSE & DISTINCT STYRENE					
			ODOR.					
			CANISTER BLANK TAKEN					
			THROUGH SAMPLE LINE					
								PNL-F75-1-T #06769 13600012 15:19
			ODOR BLANK					PNL-F75-1-O 15:19
			SULFUR BLANK					PNL-F75-1-S 15:35

TEST COMMENTS _____

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

DATE 06-29-04 SAMPLERS HAR

LOCATION ASCON PNL - F11

SURFACE DESCRIPTION DRY OPEN SOIL NEAR WHERE PETROLEUM TANKS & OIL

CURRENT ACTIVITY WELL HAVE JUST BEEN REMOVED. APPROX. 125' N OF NE CORNER OF STYRENE POND.

INSTRUMENT TYPE TVA-1000 ID NO. R5872 TYPE JEROME 631-X ID NO. 1707

AMBIENT P = 6.3 F = 12.9 J =

JEROME FAILED

START TIME

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments

NO WASTE DISCOVERED IN THIS BORING, NATIVE MATERIAL DISCOVERED AT 9' DEEP, SO NO FLUX SAMPLES HERE.

SMALL WASTE CAKE DISCOVERED ON AUGER BLADES WHEN AUGER WAS REMOVED FROM BORING.

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-29-04 SAMPLERS HWR

LOCATION ASCON PNL-F18

SURFACE DESCRIPTION DRY OPEN SOIL JUST NORTH OF GATE

CURRENT ACTIVITY ON MAGNOLIA STREET

INSTRUMENT TYPE TVA 1000 ID NO. R5872 TYPE Jerome 631-X ID NO. 1707

AMBIENT F= 6.01 P= 2.81 J= 0.007

START TIME

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1							
0:40								
1:00								
1:20								
1:40								
2:00								
2:20								
2:40			STYRENE		ENCOUNTERED			
3:00								
3:30			IN	SOIL	SAMPLE			(STRONG
4:00								
4:30			ODOR	&	VISIBLE			IDENTIFICATION)
5:00								
5:30			RIGHT	AT	WATER			LEVEL — (~15')
6:00								
6:30			NO	FLUX	SAMPLE			WAS
7:00								
7:30			DESIRED.					

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-29-04 SAMPLERS HWR

LOCATION ASCON PNL - F17

SURFACE DESCRIPTION ~ 100' NORTH OF ENTRANCE GATE ON MAGNOLIA

CURRENT ACTIVITY ALONG N-S FENCELINE

INSTRUMENT TYPE TVA 1000 ID NO. R5872 TYPE Hirolla 634 ID NO. 1707

AMBIENT P= 1.05, F= 2.84

START TIME

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
0:20	1							
0:40								
1:00								
1:20								
1:40								
2:00				WATER ENCOUNTERED AT ABOUT				
2:20								
2:40				9', NO WASTE IDENTIFIED IN				
3:00								
3:30				SPLIT SPOON CONTINUOUS SAMPLING -				
4:00								
4:30				NO FLUX DATA COLLECTED				
5:00								
5:30								
6:00								
6:30								
7:00								

TEST COMMENTS

SUMMARY: PEAK EMISSIONS TIME TAU

STEADY STATE EMISSIONS TIME TAU

DATE 06-29-04 SAMPLERS HWR

LOCATION ASCON PNL-F[redacted]21

SURFACE DESCRIPTION DRY OPEN SOIL, JUST NORTH OF OFFICE TRAILER,

CURRENT ACTIVITY & WEST OF FENCELINE ON MAGNOLIA.

INSTRUMENT TYPE, _____ ID NO. _____ TYPE _____ ID NO. _____

AMBIENT _____

Time	Sweep Air (L/min)	Residence Number	Air Temp (C°) Chamber	Air Temp (C°) Ambient	Real-Time (ppmv) FID	Real-Time (ppmv) PID	Sample Number	Comments
			NO WATER ENCOUNTERED UNTIL					
			WATER LEVEL & BELOW. (~9'					
			DEEP) & BELOW). STYRENE					
			"STRINGS" ON SPLIT SPOON WHEN					
			WITHDRAWN FROM [redacted] BORING.					

TEST COMMENTS _____

SUMMARY: PEAK EMISSIONS _____ TIME _____ TAU _____

STEADY STATE EMISSIONS _____ TIME _____ TAU _____

SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS HWR

LOCATION ASCON

SURFACE DESCRIPTION SEMI-LIQUID STYRENE WASTE FROM POND

CURRENT ACTIVITY ON SCRAP OF POND LINER (HDPE)

INSTRUMENT TYPE TVA1000 I.D. NO. R-872 TYPE JEROME 631-X ID NO. 1707

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☐ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 12741 SUPPLIER S.M PSIG START 1500 PSIG STOP

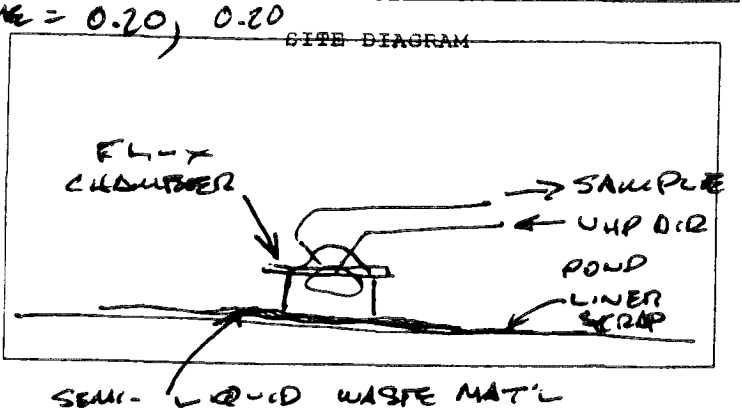
Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Sample Number	Comments
9:15	5.0	0								
9:21		1								
9:27		2					CANISTER		REP: SF-STY2-U-TR	
9:33		3							#01490 SC000433	
9:39		4						482		
9:45		5					33.5	SF-STY2-U-T		
							35.6	51.4	#01529, SC00473	
						35.6	51.4	SF-STY2-U-O		
								SF-STY2-U-S		

COMMENTS:

BENZENE = 0.20, 0.20

UNCONTROLLED

~~SITE DIAGRAM~~



SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS Hal

LOCATION ASCON - HUNTINGTON BEACH

SURFACE DESCRIPTION BLACK/BROWN SEMI-LIQUID MAT'L

CURRENT ACTIVITY REMOVED FROM STURBANE POND

INSTRUMENT TYPE TVA-1000 I.D. NO. 25872 TYPE JEROME 631-X ID NO. 1707

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 2 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☐ None ☒ (REMOVED & REPLACED FOIL WRAP)

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 12741 SUPPLIER SIM PSIG START 1700 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Jerome ~~Sample Number~~	Comments
10:42	5.0	0								
10:48	↓	1							↑	
10:54		2								
11:00		3								
11:06		4							1.4, 0.84, 1.1	
11:12		5					40.4	81.4	SF-STY2-C1-T	
							42.7	89.9		01518, SC00575
									ODOR BKG	SF-STY2-C1-O
									SULFUR BKG	SF-STY2-C1-S

COMMENTS: APPLIED "DECAPSTER CSE W/O MICROBER" TO WASTE SURFACE.

~~SITE DIAGRAM~~

SEE STY2-J

SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS HWR

LOCATION ASON

SURFACE DESCRIPTION BLACK/BROWN SEMI-LIQUID TAKEN

CURRENT ACTIVITY FROM THE STYRENE PIT.

INSTRUMENT TYPE TVA1000 I.D. NO. R5872 TYPE JEROME 631-X ID NO. 1707

INSTRUMENT BASELINE P: 0.08 F = 2.84

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. F PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ____ mph Wind at Seal, ____ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ (REMOVED & REPLACED FOIL WRAP)

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 12741 SUPPLIER S/M PSIG START 1200 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv)		JEROME Sample Number	Comments
1238	5.0	0								
1244	↓	1								
1250		2								
1256		3								
1302		4					3.21	4.20	CANISTER:	
1308		5					2.7	4.18	SF-STY2-C2-T	
							3.7	4.4	A00528 / SX00537	
							COOR		SF-STY2-C2-O	
							SULFUR		SF-STY2-C2-S	

COMMENTS: APPLIED RUBBER FOAM TO WASTE SURFACE PRIOR TO SAMPLE

JEROME = 0.13, .024, 0.022, 0.021

PID = 3.2 13:35 FID: 5.54

PID = 3.49 13:46 FID: 5.95

~~SITE DIAGRAM~~

SEE STY2-U

SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS HWR

LOCATION ASCON

SURFACE DESCRIPTION DARK, SANDY, STYRENE - CONTAMINATED CUTTINGS

CURRENT ACTIVITY FROM AUGER HOLE # PNL-F1 (ANGLE BORING)

INSTRUMENT TYPE TVA1000 I.D. NO. R5872 TYPE JEROME 631-X ID NO. 1707

INSTRUMENT BASELINE

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 0 mph Wind at Seal, 0 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☐ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

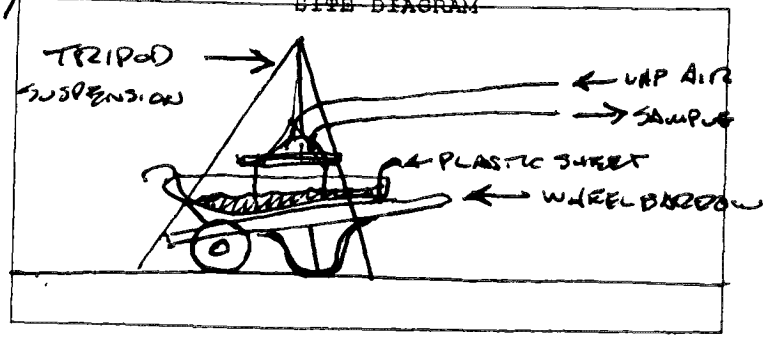
SWEEP AIR UHP CC 28215 SUPPLIER S/M PSIG START 1900 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) PID	FID	Sample Number	Comments
9:04	5.0	0								
9:10	↓	1								
9:16	↓	2					REP	ODOR	BAG	SF-STY1-U-OR
9:22	↓	3					REP	SULFUR BAG	-	SF-STY1-U-SR
9:28	↓	4								
9:34	↓	5								CANISTER
							60.1	18.8	SF-STY1-U-T	#00239
							64.4	18.9		SC00125
0945							ODOR	BAG	SF-STY1-U-O	
							SULFUR	BAG	SF-STY1-U-S	

COMMENTS: JEROME = 0.000, 0.000

UNCONTROLLED WASTE

SITE DIAGRAM



SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS HWR

LOCATION ASCON

SURFACE DESCRIPTION SANDY, DARK, STYRENE CONTAMINATED SOIL

CURRENT ACTIVITY CUTTINGS FROM BORING # PNL-F1

INSTRUMENT TYPE TVA1000 I.D. NO. 125892 TYPE JEROME 631-X ID NO. 1707

INSTRUMENT BASELINE P = 0.94 F = 5.8

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☐ No ☒ BARM PRESS

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☒ Wind at 5', 2 mph Wind at Seal, 1 mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☐ None ☒ (REMOVED & REPLACED FOIL WRAP)

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 28215 SUPPLIER S/M PSIG START 1700 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.D	F.D	JEROME ~~Sample~~ Number	Comments
10:34	5.0	0								
10:40	↓	1								
10:46		2								
10:52		3								
10:58		4					15.7	25.3	0.003, 0.002, 0.001	
11:04		5					15.2	26.1	SF-STY1-C1-T	
										00522, SC00022
						ODOR BAG			SF-STY1-C1-O	
						SULFUR BAG			SF-STY1-C1-S	

COMMENTS: APPLIED "ALABASTER CS1 W/O MICROBES" TO WASTE SURFACE

~~SITE DIAGRAM~~

SEE STY1-U

SURFACE FLUX MEASUREMENT DATA FORM

DATE 07-01-04 SAMPLERS HWR

LOCATION ASCON

SURFACE DESCRIPTION DARK, SANDY, HIGH ODOR, STYRENE CONTAMINATED

CURRENT ACTIVITY CUTTINGS FROM PNL-F1

INSTRUMENT TYPE TVA 1000 I.D. NO. R5872 TYPE JEROME 631X ID NO. 1707

INSTRUMENT BASELINE P: 0.88 F: 2.84

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS

CHAMBER I.D. D PHOTO TAKEN: Yes ☐ No ☒

CHAMBER SEAL YES CONDENSATION: Yes ☒ No ☐ BARM PRESS

AMBIENT CONDITIONS: Sun ☒ P.Sun ☐ Cloudy ☐ Wind at 5', ___ mph Wind at Seal, ___ mph

TEMP RAIN: Yes ☐ No ☒ Comment

PRIOR CHAMBER CLEANING: Full Wash ☐ Wet Wipe ☐ Dry Wipe ☒ None ☐ ALSO REMOVED & REPLACED FOIL WRAP

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☐ Used ☐

SWEEP AIR UHP CC 28215 SUPPLIER S/A PSIG START 1500 PSIG STOP

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) P.I.D	F.I.D	JEROME Sample Number	Comments
1235	5.0	0								
1241	↓	1								
1247		2								
1253		3								
1259		4					6.62	13.20	CANISTER	
1305		5					7.15	13.7	SF-STY1	-C2-T
							10.0	18.4		#01105 / SCC158
							ODOR BAG		SF-STY1	-C2-O
							SULFUR BAG		SF-STY1	-C2-S

JEROME = 0.000, 0.000, 0.000

COMMENTS: APPLIED RUSMAR FOAM PRIOR TO TESTING

P.I.D F.I.D

8.7 19.7 13:32

9.45 21.92 13:47

~~SITE DIAGRAM~~

SEE SF-STY1-O

PRETEST CALIBRATION
06-28-04
ASCON LANDFILL

	PID	FID
AMBIENT AIR	0.40	1.16
100 PPM ISOBUTYLENE	96.3	-
100 PPM METHANE	-	97.2
1% METHANE	-	1.10%

POST TEST CALIBRATION
06-28-04

	PID	FID
AMBIENT AIR	0.16	2.50
100 PPM ISOBUTYLENE	65	(142)
100 PPM METHANE	(0.19)	92.73
1.0 % METHANE	(0.04)	1.04%

PRETEST CALIBRATION
06-29-04 ASCON
TVA 1000 #R5872

	PID	FID
AMBIENT	0.42	1.20
100 PPM ISOBUTYLENE	101	
100 PPM METHANE		92.5
1.0 % METHANE		1.04 %

POST TEST CALIBRATION
6.29.04

	PID	FID
AMBIENT		
100 PPM ISOBUTYLENE		
100 PPM METHANE		
1.0 % METHANE		

NO SAMPLES THIS DAY

PRESAMPLE CALIBRATION

TVA-1000 06-30-04

ASCON

	PID	FID
AMBIENT	0.03	0.67
100 ppm ISOBUTYLENE	92.2	
100 ppm METHANE		89.6
1.0 % METHANE		1.02%

POST SAMPLE CALIBRATION

	PID	FID
AMBIENT	0.31	0.80
100 ppm ISOBUTYLENE	94.4	(140)
100 ppm METHANE		86.4
1.0 % METHANE		1.04%

PRESAMPLE CALIBRATION
ASCON 07-01-04
TVA-1000

	PID	FID
AMBIENT	0.11	1.23
100 ppm ISOBUTYLENE	94.3	(143)
100 ppm METHANE	(-0.01)	99.2
1.0 % METHANE	(-0.02)	1.18%

POST TEST CALIBRATION

	PID	FID
AMBIENT	0.91	3.69
100 ppm ISOBUTYLENE	86.2	(153)
100 ppm METHANE	(1.33)	99
1.0% METHANE	(0.45)	1.16%

PIT F

SURFACE FLUX MEASUREMENT DATA FORM

DATE 6/28/04 SAMPLERS CES/HWR

LOCATION ASCON FIELD TRAILER

SURFACE DESCRIPTION TEFLON

CURRENT ACTIVITY NA

INSTRUMENT TYPE NA I.D. NO. _____ TYPE _____ ID NO. _____

INSTRUMENT BASELINE NA

PROJECT QC: BACKGROUND MEASUREMENTS ☐ BLANK MEASUREMENTS ☒ REPLICATE MEASUREMENTS ☒
AMBIENT CONCENTRATIONS _____

CHAMBER I.D. F PHOTO TAKEN: Yes ☐ No ☒ _____

CHAMBER SEAL NO-INDOOR CONDENSATION: Yes ☐ No ☒ BARM PRESS _____

AMBIENT CONDITIONS: Sun ☐ P.Sun ☐ Cloudy ☐ NA Wind at 5', ____ mph Wind at Seal, ____ mph

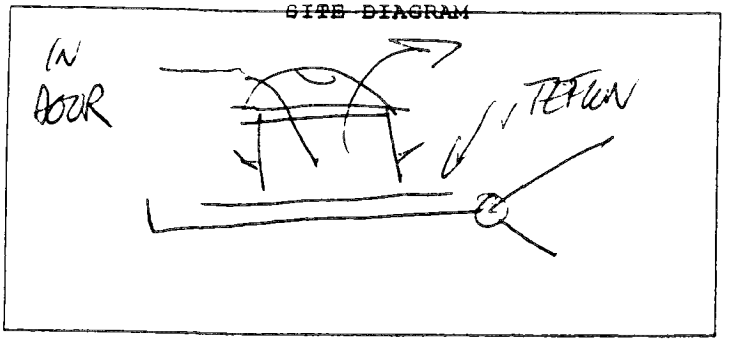
TEMP _____ RAIN: Yes ☐ No ☐ NA Comment _____

PRIOR CHAMBER CLEANING: Full Wash ☒ Wet Wipe ☐ Dry Wipe ☐ None ☐ _____

SAMPLE LINE: BACK FLUSHED PRIOR TO START ☒ PURGED PRIOR TO SAMPLING ☒ New ☒ Used ☐

SWEEP AIR UHP CC 28215 SUPPLIER SM PSIG START 2000 PSIG STOP _____

Time	Sweep Air (L/min)	Residence Number	Temperature (°F) Chamber Surf	Chamber Air	Ambient Surf	Ambient Air	Real-Time (ppmv) NA	NA	Sample Number	Comments
1337	5.0	0								-29" Hg
1343		1								
1349		2		NA						
1355		3								
1401		4								
1406		5							SF-BLK	#00300
										#SC00491
									SF-BLK-ODOR	SF-BLK-O
									SF-BLK-S	

COMMENTS:

SITE DIAGRAM