Pu-Plant Room Exhaust System

The Pu-plant was maintained at a negative pressure at all times during production and clean up with this system. Each floor exhaust hole had an absolute filter installed just below the floor level, and clean fiberglass prefilters were maintained on top of these absolute filters. These exhaust holes were connected to the exhaust tunnel by transite exhaust duct, that was installed before the concrete floors were installed. Control louvers were installed on each duct just inside the tunnel, to maintain a proper air flow pattern through out the building. This exhaust tunnel is connected to the exhaust fanroom by a 6'xl2'x26' riser.

We had to decontaminate most filter housings from the filter seal up to the floor level. We found contamination in the filter housings below the filter seal in:

> 1. Room 129 - Maximum 1,000 dpm/100 cm² direct, 500 dpm/100 cm² smear.

2. Room 132 - South filter - 300 to 500 dpm/100 cm² direct, 300 dpm/100 cm² smear.

Note: These two filter housings (129 and 132) had a liquid stain where these levels were found.

- 3. Room 133 100 to 1500 dpm/100 cm² direct 20 to 100 dpm/100 cm² smear.
- 4. Room 134 300 to 500 dmp/100 cm² direct 20 to 100 dpm/100 cm² smear.
- 5. Room 138 100 to 200 dpm/100 cm² direct 20 to 100 dpm/100 cm² smear.

6. Room 141 - 100 to 300 dpm/100 cm² direct 20 to 100 dpm/100 cm² smear.
7. Room 123 - 300 to 500 dpm/100 cm² direct 20 to 100 dpm/100 cm² smear.
Note: These filter housings (133, 134, 138, and 123) may have been contaminated while removing filter.
8. Room 116 - 300 to 500 dpm/100 cm² direct 300 dpm/100 cm² smear. This entire filter housing was extremely oily.
9. Room 124 - 1,000 to 12,000 dpm/100 cm² smear. We removed the

steel filter sleeves in this room.

We found contamination in the following transite ducts:

1. Room 124 west duct - North end 500 dpm/100 cm² direct.
2. Room 124 east duct - This duct had a moisture stain along the bottom of the duct for its entire run. This stained area 10,000 to 30,000 dpm/100 cm² direct and up to 2,000 dpm/100 cm² smearable. Non stained area 50 to 5,000 dpm/100 cm² direct and up to 1,000 dpm/100 cm² smear.

3. Room BOl duct - Spot levels of 1,000 to 5,000 dpm/100 cm² direct and up to 1,000 dpm/100 cm² smear.

We spent approximately 8 weeks of extensive decontamination to reduce these levels to release limits. We removed steel sleeves inside these ducts and then sanded the entire length of these ducts. Where the duct was cracked in the bottom we removed a portion of the bottom of these ducts to check the soil below. We removed a small amount of soil from three locations.

The initial survey in the exhaust tunnel and riser were:

1. Walls and ceiling - 300 to 400 dpm/100 cm² direct 100 dpm/100 cm² smear.

2. Control louvers - 500 to 2,000 dpm/100 cm² direct 500 dpm/100 cm² smear.

3. Floor - 1,000 to 12,000 dpm/100 cm,² direct 500 dpm/1000 cm² smear.

4. Piping and conduit - 2,000 to 4,00 dpm/100 cm^2 direct 500 dpm/100 cm^2 smear.

We vacuumed the entire tunnel and removed the control louvers. We shot blasted the entire tunnel and deconed the piping and conduit. Our low energy gamma survey indicated a problem in a crack under room 124 east duct run, and a crack that ran to the tunnel drain pipe. We chiseled out these cracks and removed the drain pipe. We deconed and released the exhaust fans that were associated with this system.

We used a Ludlum 2220 with a Ludlum 43-17 low energy gamma probe to survey all cracks and seams. A Ludlum 2220 with a Ludlum 43-68, 43-4, or 43-27 was used with P-10 gas for all alpha release surveys. All smears were taken on Whatman smear paper and counted in a Hewlett -Packard 5560A (low background) automatic sample counter.

1.4

W. A. Rogers

Pu PLANT RELEASE SURVEY PLAN

- 1. For initial decontamination all surfaces will be scanned with an Eberline PRM-6 with a Radeco alpha scintillation probe. Background will be maintained at less than 100 CPM(200 dpm). All areas greater than twice background will be marked and reading will be taken with a release survey instrument to document contamination levels and random large area smears will be taken.
- 2. After these initial areas are decontaminated, all floor surfaces and the base of each wall will be completely surveyed with a digital readout release instrument and a Ludlum large area gas proportional alpha detector and random smear samples will be taken. Release instrumentation shall have a minimum detectable level of at least 50 dpm/100 cm².
- 3. All hot spots greater than or equal to 100 dpm/100 cm² identified will be decontaminated.
- 4. A random survey with a release instrument will be taken on the walls and ceiling to try to identify any other problem areas.
- 5. If no problems are identified, each room will be gridded off into approximately 2 meter on a side square on the walls and floor and five readings will be taken in each grid. Readings shall be taken in the center and at the midpoint from the center to each corner.
- 6. Each ceiling has closely spaced rafters that will not be easily divided into 2 meter squares. Because of this, we will take readings on the bottom of each rafter at 2 meter intervals and one reading centered on the ceiling between rafters. Readings on each rafter will be staggered one meter.
- 7. These release readings will be documented on a map that is drawn to approximately scale measurements in meters.
- 8. Data provided on each map:
 - 1. Survey block numbers, identifiable on a scale drawings.

a. room or area name or number.

- b. surface surveyed.
- c. type of measurement and units.
- 2. Name of surveyor taking measurements, date of survey, and location.

- 3. Type, model number, calibration data, sensitivity limit, background, and source response of instruments used in survey.
- 4. When a block surveyed is below the sensitivity of the instrument, the fact that such a measurement was made should be included as significant data.
- 9. All release survey smears will be taken on Whatman smear paper and counted in the automatic sample counters. Each smear will cover approximately 100 cm².
- 10. There will be at least 30 survey blocks in each area to be released.
- 11. Piping and ductwork will be surveyed on all accessable sides at 2 meter intervals. If more than one line is running parallel in a pipe rack, readings shall be staggered at one meter intervals.
- 12. All readings taken that only cover part of a probe area will be corrected to dpm/100 cm².
- 13. No survey block will measure less than one meter on a side.
- 14. No survey block will measure more than 3 meters on a side.
- 15. All portable release survey instruments will be calibrated quarterly and all instruments in use will be source checked daily.

Table I-1. Acceptable surface contamination levels

Nuclides ⁴	Average	Maximum ^D , d, J	Removable ^b , e, j
U-nat, U-235, U-238, and associated decay products	5,000 dpm a/100 cm²	15,000 dpm 0/100 cm²	1,000 dpm α/100 cm ²
Transuranics, Ra-226, Ra-228, Th-230, Th-228, Pa-231, Ac-227, 1-125, 1-129	100 dpm/100 cm ²	300 dpm/100 cm²	20 dpm/100 cm ²
Th-nat, Th-232, Sr-90 Ra-223, Ra-224, U-232, 1-126, I-131, 1-133	, 1,000 dpm/100 cm²	3,000 dpm/100 cm ²	200 dpm/100 cm ²
Beta-gamma emitters (nuclides with decay modes other than alpha emission or spontaneous fission) except Sr-90 and other noted above.	5,000 dpm βγ/100 cm ²	15,000 dpm 87/100 cm ²	1,000 dpm βγ/100 cm ²

^aWhere surface contamination by both alpha- and beta-gamma-emitting nuclides exists, the limits established for alphaand beta-gamma-emitting nuclides should apply independently.

^bAs used in this table, dpm (disintegrations per minute) means the rate of emission by radioactive material as determined by correcting the counts per minute observed by an appropriate detector for background, efficiency, and geometric factors associated with the instrumentation.

^CMeasurements of average contaminant should not be averaged over more than 1 square meter. For objects of less surface area, the average should be derived for each such object.

 $d_{\rm The maximum contamination level applies to an area of not more than 100 cm².$

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^{θ}The amount of removable radioactive material per 100 cm² of surface area should be determined by wiping that area with dry filter or soft absorbent paper, applying moderate pressure, and assessing the amount of radioactive material on the wipe with an appropriate instrument of known efficiency. When removable contamination on objects of less surface area is determined, the pertinent levels should be reduced proportionally and the entire surface should be wiped.

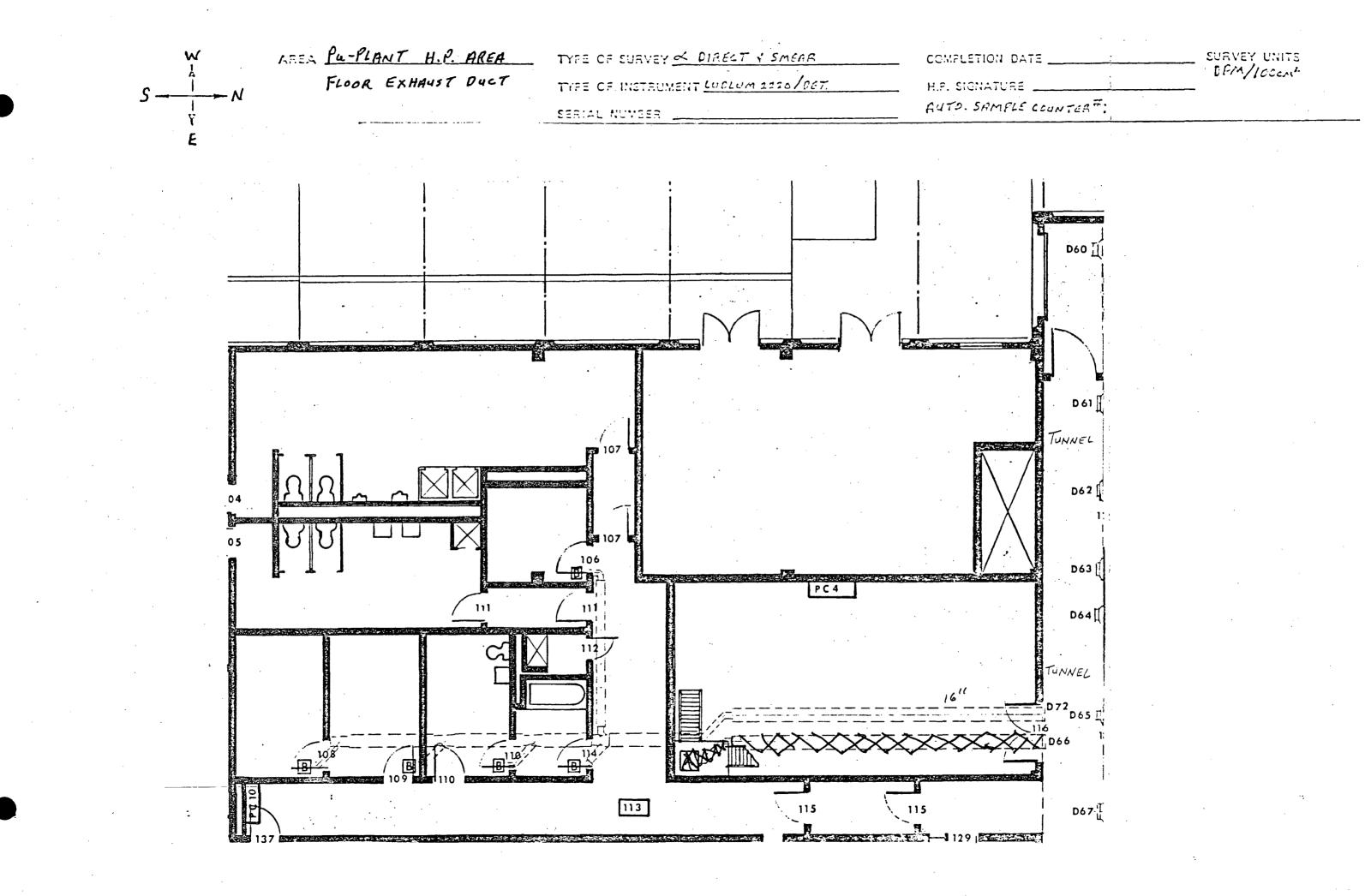
 $f_{\text{The average and maximum radiation levels associated with surface contamination resulting from beta-gamma emitters should not exceed 0.2 mrad/hr at 1 cm and 1.0 mrad/hr at 1 cm, respectively, measured through not more than 7 milligrams per square centimeter of total absorber.$

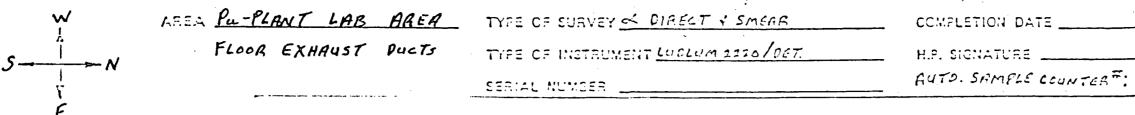
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116	899	36	24.97	84	19.60	45	36	+
12.1	4191	215	19.49	90	24.00	402	215	+-
123	6,260	260	24.09	98	33.26	483	260	+
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enot	690	32	21.56	60	28.81	24	32	
123 inert	654	37	17.68	48	16.63	42	37	
Init	654	33	17.21	54	23,52	63	38	
124 recent	984	27	36.44	138	28.81	90	23	
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<u> </u>	3010	56	53.75	168	27.72	12.6	56	+
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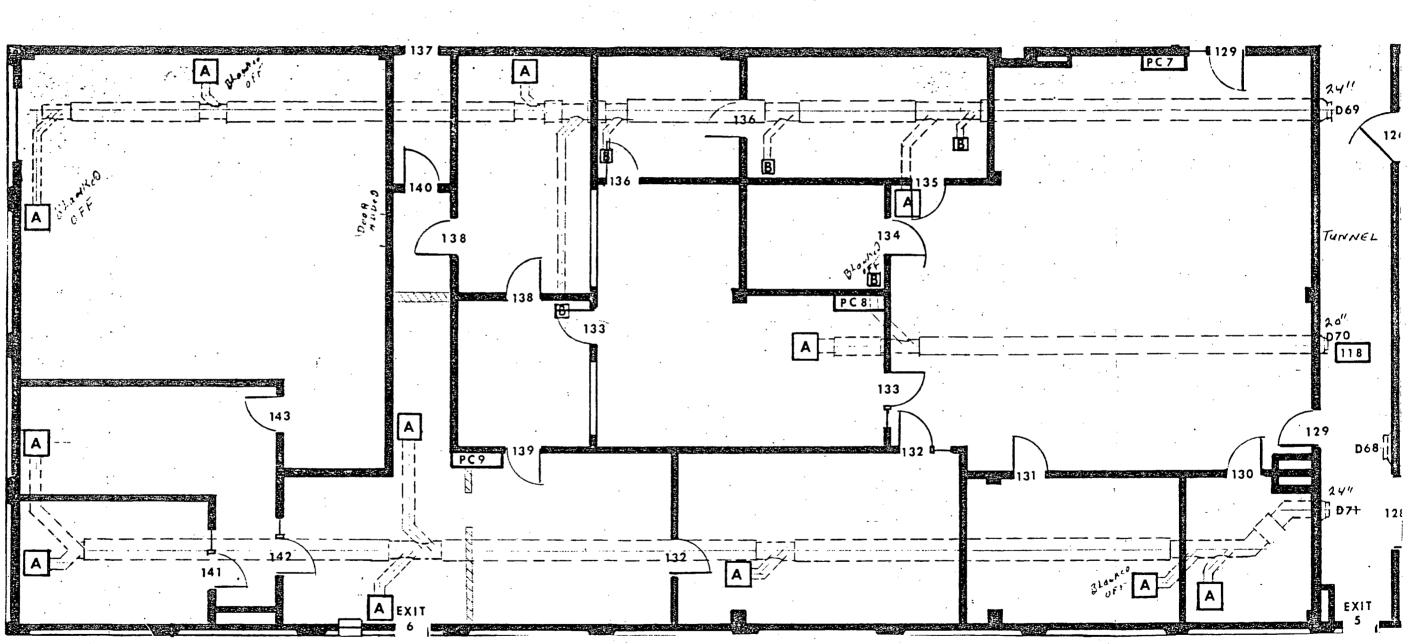
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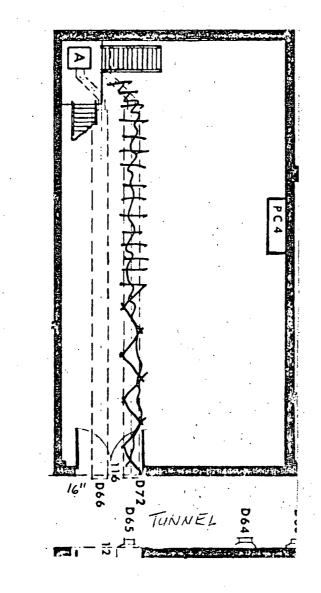






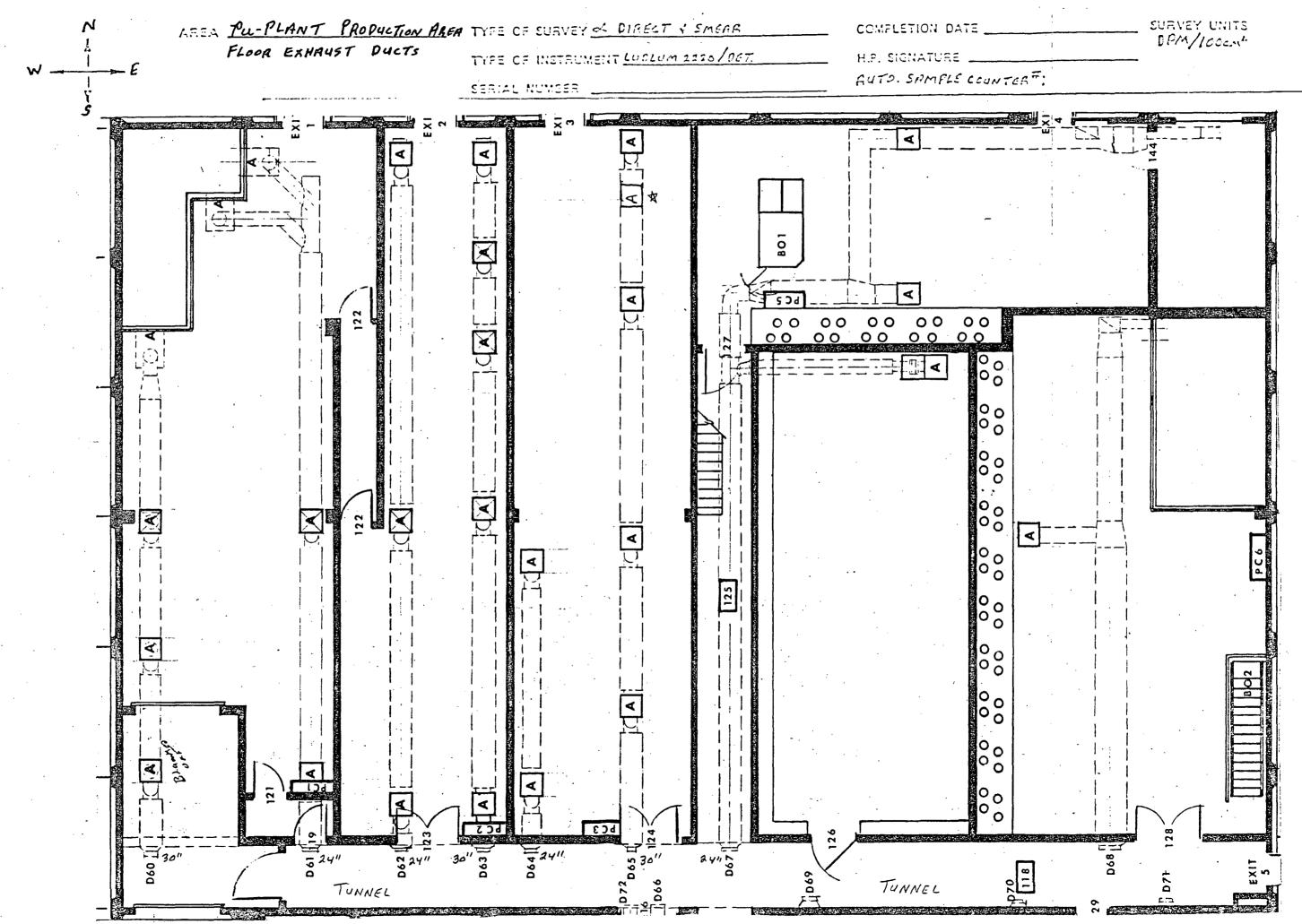
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AREA PU-PLANT ROOM#116 TYPE OF SURVEY & DIRECT & SMEAR COMPLETION DATE _ FLOOR EXHAUST DUCT TYPE OF INSTRUMENT LUCLUM 1220/06T. H.P. SIGNATURE AUTO. SAMPLE COUNTER #: SERIAL NUMBER

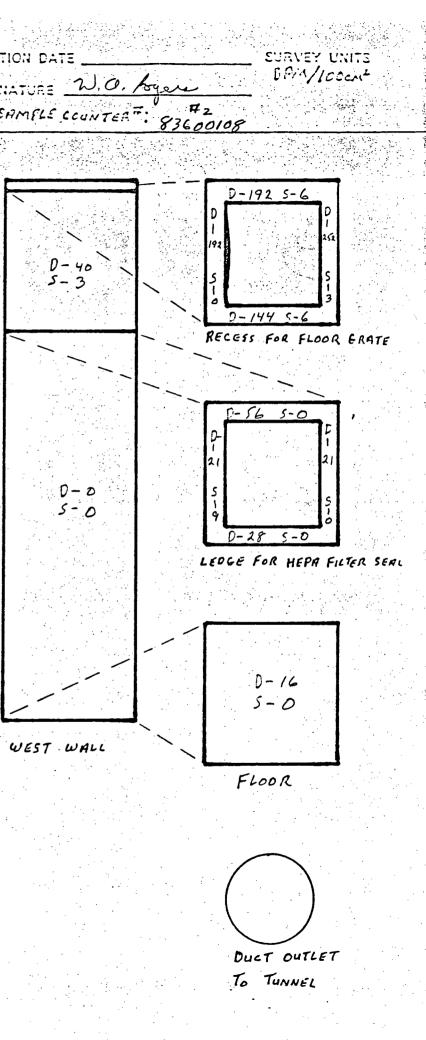


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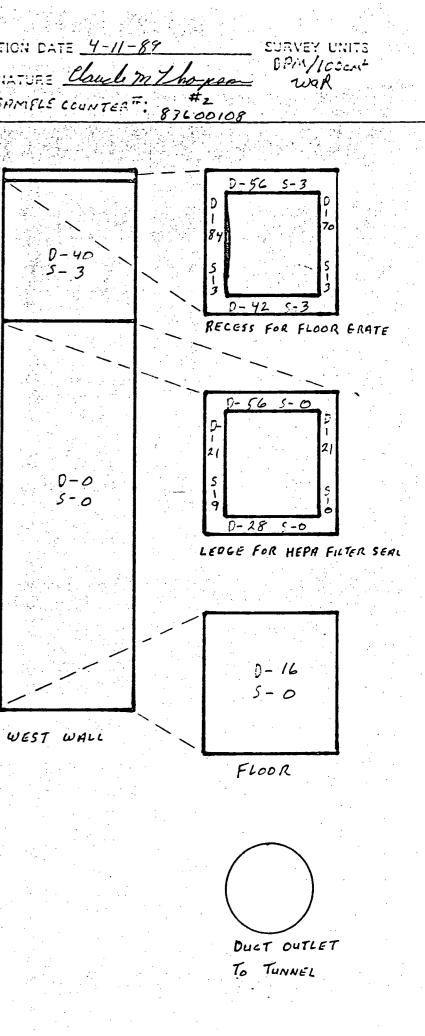
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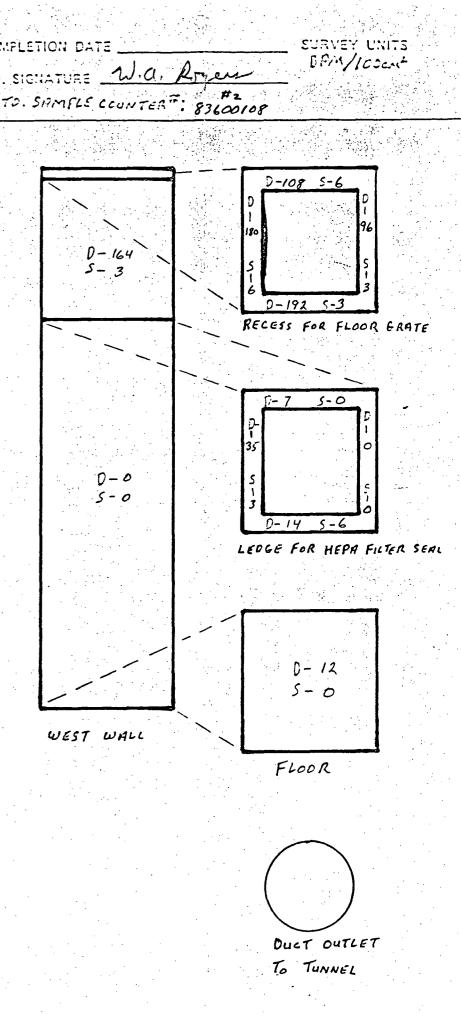
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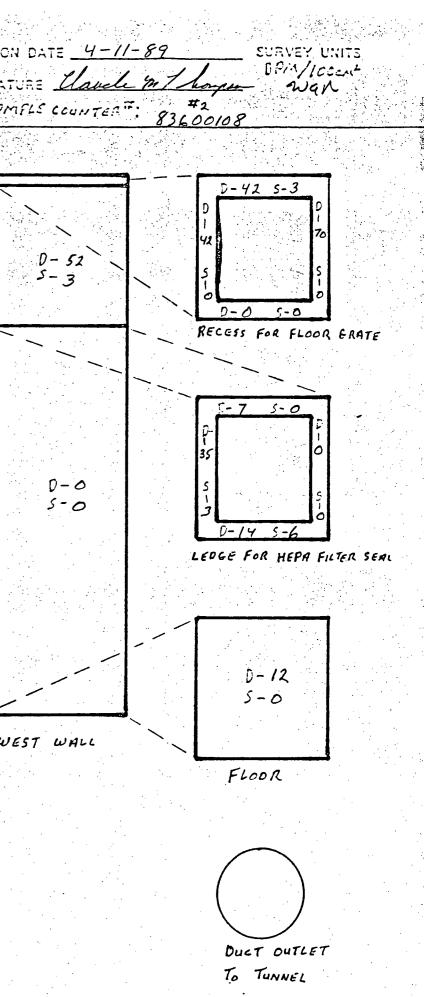
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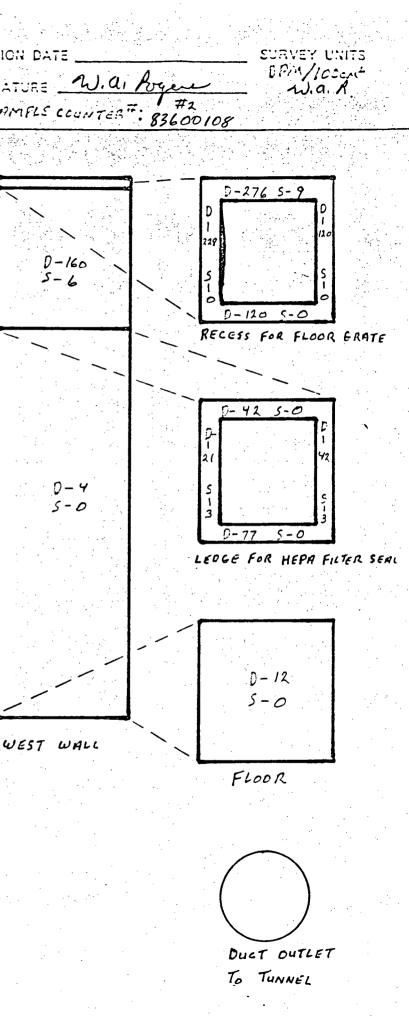
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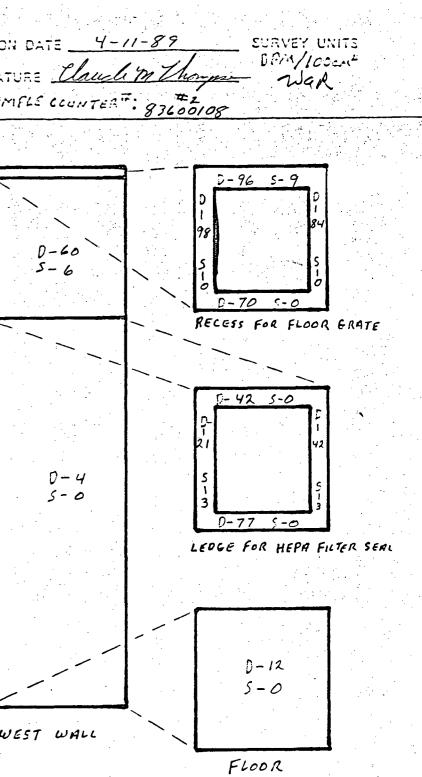
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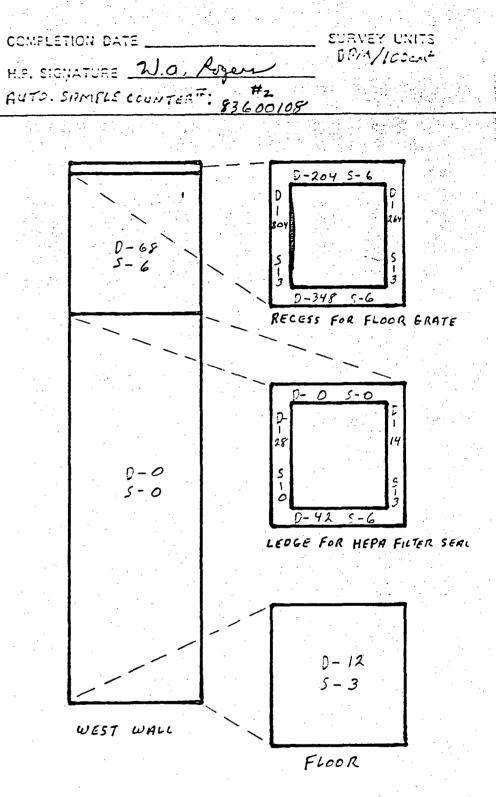
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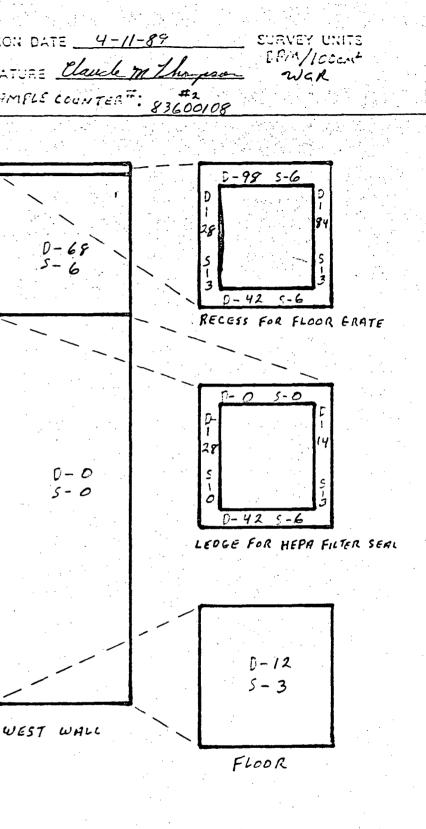
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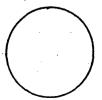
ASE: PU-PLANT BOOM # 110 TYPE OF SURVEY & DIRECT & SMEAR COMPLETION DATE FLOOR EXHAUST HOLE TIPE OF INSTRUMENT LUDLUM 2520/057.43-4. 43-68 W---- E BEFORE DECON SERIAL NUMBER 50057, 52834 S .37 METER ICM = . I METER F-FLOOR D-DIRECT C - CEILING S- SMEAR N-NORTH WALL 0-104 FILTER D- 12 S-SOUTH WALL D-12 .40 5-6 METER 5-3 E-EAST WALL 5-3 HOUSWG W-WEST WALL SOURCE # : 6498 VALUE: 890 DPM INSTRUMENT SOURCE CY RESPONSE excof/ DATE 50057 3-21-89 218,214 50057 3-21-89 212 220 2 52834 3-21-89 125.2.20 2 52834 3-21-89 229222 Ó DUCT 0-0 0-0 50057 3-27-84 2 204.208 D-12 5-3 1.02 5-0 5-3 METER ASC#2 3-22-89 29 .3 NORTH WALL EAST WALL SOUTH WALL





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					NORTH WALL		SOUTH WALL		EAST WALL	
	. 1					· · · ·		• ,		
	: *									
	·					· · ·			DIRECT C	MEAD
· -	·						TO TAL DPM			MEAR 54
-				• •			<i>FREADINGS</i>		17	17
.,. F				: ••• •••		· · ·		Z		1.18
				• •			HUG DPri/1000 max ppm/1000		98	6
							MAX NPM/1000	, m	~ ~	-,
				· .					•	
				•••			•			

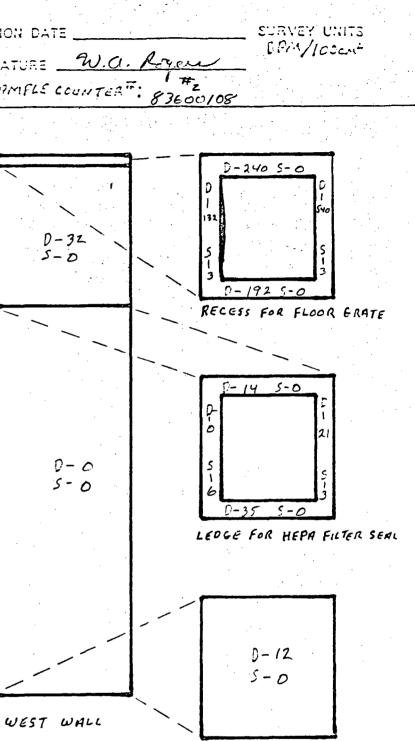




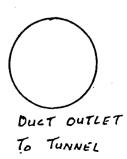
DUCT OUTLET To TUNNEL

		А? - - Е		LIONT RU LOOR EXHAU BEFORE		•	SURVEY <u>& DIREC</u> INSTRUMENT <u>LUCL</u> 43-6 UMBER <u>5005</u>		CET. 43-4 . 43-65	COMPLETION H.P. SIGNAT AUTO. SAM
	S 1cm = .11	ME <i>TER</i>			.37 	-				
50057	DATE 3-21-89	NG S- 51 H WALL I WALL WALL WALL 6498 VALUE: INSTRUMENT SOURCE CM PESPONSE 218 219	ex305//	-40 METER	D-20 S-3	FILTER HOUSWG	0-40 5-0		D-32 S-0	
52834 52834	3-21-89 3-21-89 3-21-89 3-27-89	212,220 225,220 292,222 204,208 H5c#2	2 2 0 2	1.02 METER	D-0 S-0	Duct	D-0 5-0		D-0 5-3	
	3-22-89	29	,3							
					NORTH WALL	• . • .	SOUTH WALL	- -	EAST WALL	ω
						. · ·				

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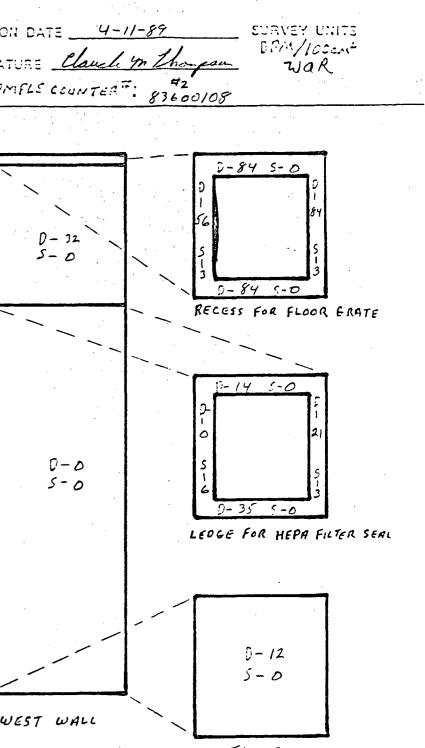
FLOOR



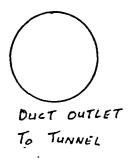
1	PMT ROOM # 114 COR EXHAUST HOLE AFTER DECON	TYPE OF SURVEY & DIRECT TYPE OF INSTRUMENT LUCLU 43-4 SERIAL NUMBER 5006	· · ·	COMPLETION H.P. SIGNATI AUTO. SAM
S Icm = ·IMETER	.37 METER			
F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL MOR = 19.40 E-EAST WALL DPM/100cm ² W-WEST WALL FIXED SOURCE ST : 68/6 VALUE: 1078 DPM INSTRUMENT	.40 METER 5-3	FILTER D-40 5-0 HOUSWG	D-32 S-0	
DATE SOURCE C/m EKGO?/m 50064 4-10-89 279,280 1 37807 4-10-89 259,250 3				
A5C#2 4-11-89 30 .1	1.02 D-0 NETER	DUCT D-0 S-0	D- 0 5- 3	
	NORTH WALL	SOUTH WALL	EAST WALL	Ŵ
		To TAL DPM # READINGS AVG. DPM/100cm ² mAX DPM/100cm ²	<u>DIRECT</u> <u>SMEAR</u> 514 21 17 17 30.24 1.24 84 G	

S. W. S. BALTIN

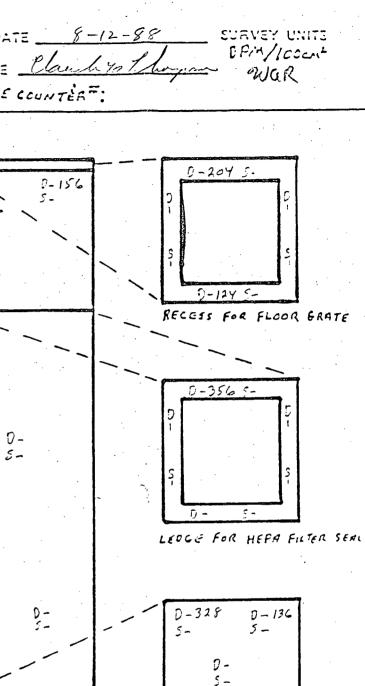
1.1.1



FLOOR



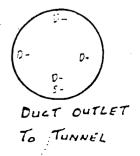
	LOCK EXHAU REFORE	IST HOLE	TIFE CF I		UCLUM 2220	43-4 ICET. 47-60	COMPLETION H.P. SIGNATUI AUTO. SAMP	RE _
S F-FLOOR D-DIRECT C-CEILING S-SREAR N-NORTH WALL		.67 METER C-180 D-192 S- S-			142	D- D-232 5- 5-	2-13	
S-SOUTH WALL E-EAST WALL W-WEST WALL Source : 6868 VALUE: 1055 OPM INSTRUMENT	·53 METER		FILTER HouswG				5-	
DATE SCURCE C/m Excel: 8-12-89 200-198 3 11 272-222 4		D- 5-	Guct	0- 5-		D- 5-		0-51
		D- D- 5- 5-		0- 0 5- 5		D- D- 5	0- 5-	
	[NORTH WALL		South wall		WEST WALL	EA	1 57 i
							· · · · · · · · · · · · · · · · · · ·	
	· · · ·				• •			





FLOOR

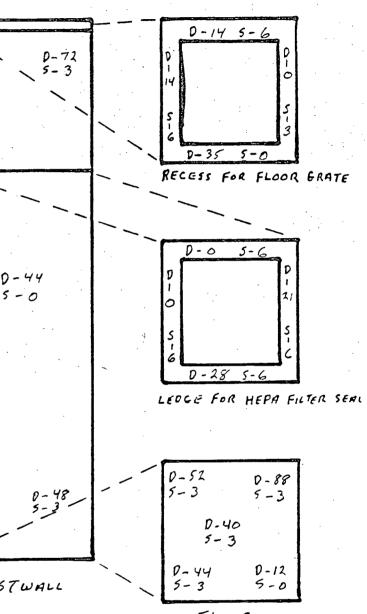
D-5-



F	LAB LANT ROOM # 129 LOOR EXHAUST HOLE AFTER DECON	TIFE OF INSTRUMENT LUDLU	JE PRS-2 43-4	COMPLETION DATI H.P. SIGNATURE _ AUTO. SAMPLE C
$F = FLOOR \qquad D = DIRECT C = CEILING \qquad S = SMEAR N = NORTH WALL MDA = 28.81 S = SOUTH WALL \qquad MDA = 28.81 E = EAST WALL \qquad DPM/100 cm2 W = WEST WALL \qquad FIXED SOURCE FIXED \qquad SOURCE \\ SOURCE \\ FISSONSE \\ M = SOURCE \\ $	D-48 D-48 D-12 S-6 D-12 D-12 S-0 0-12 S-0	D-84 D-96	D-40 D-8 S-0 S-3 D-44 S-0 S-3	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D-8 D-80 5-15 5-0 NORTH WALL	D-20 D-24 5-3 5-0 SOUTH WALL	D-4 S-0 S-9 WESTWALL	D-84 5-0 EAST
	To #1 AU	LAB FLOOR EXHAUST TAL DAM TAL DAM READINGS G. DAM/100 cm ² X. DAM/100 cm ² 102	<u>T SMEHR</u> 1,059 502 1 2.11	MDA = 25.81 DPri/100 cm² FIXED

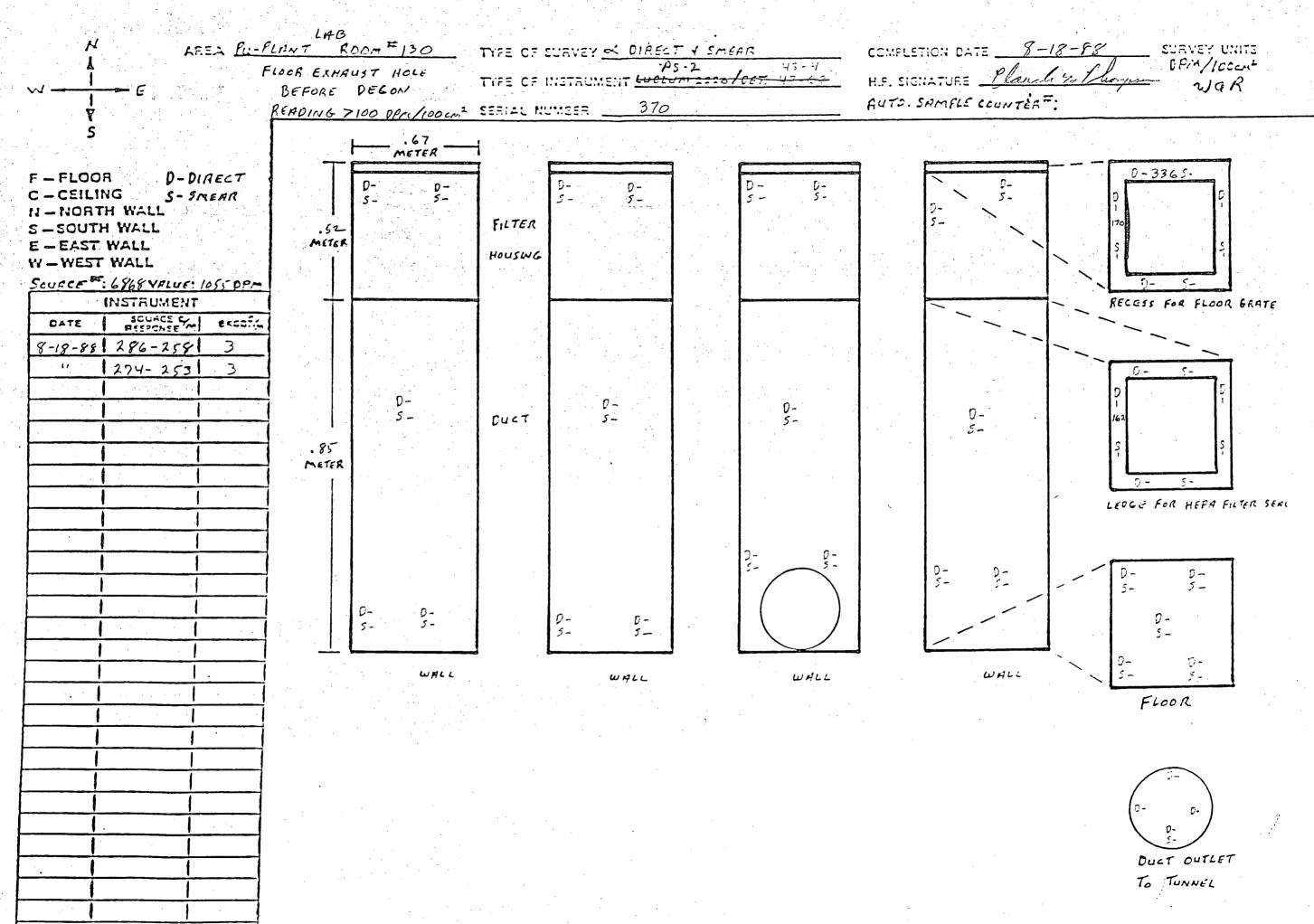
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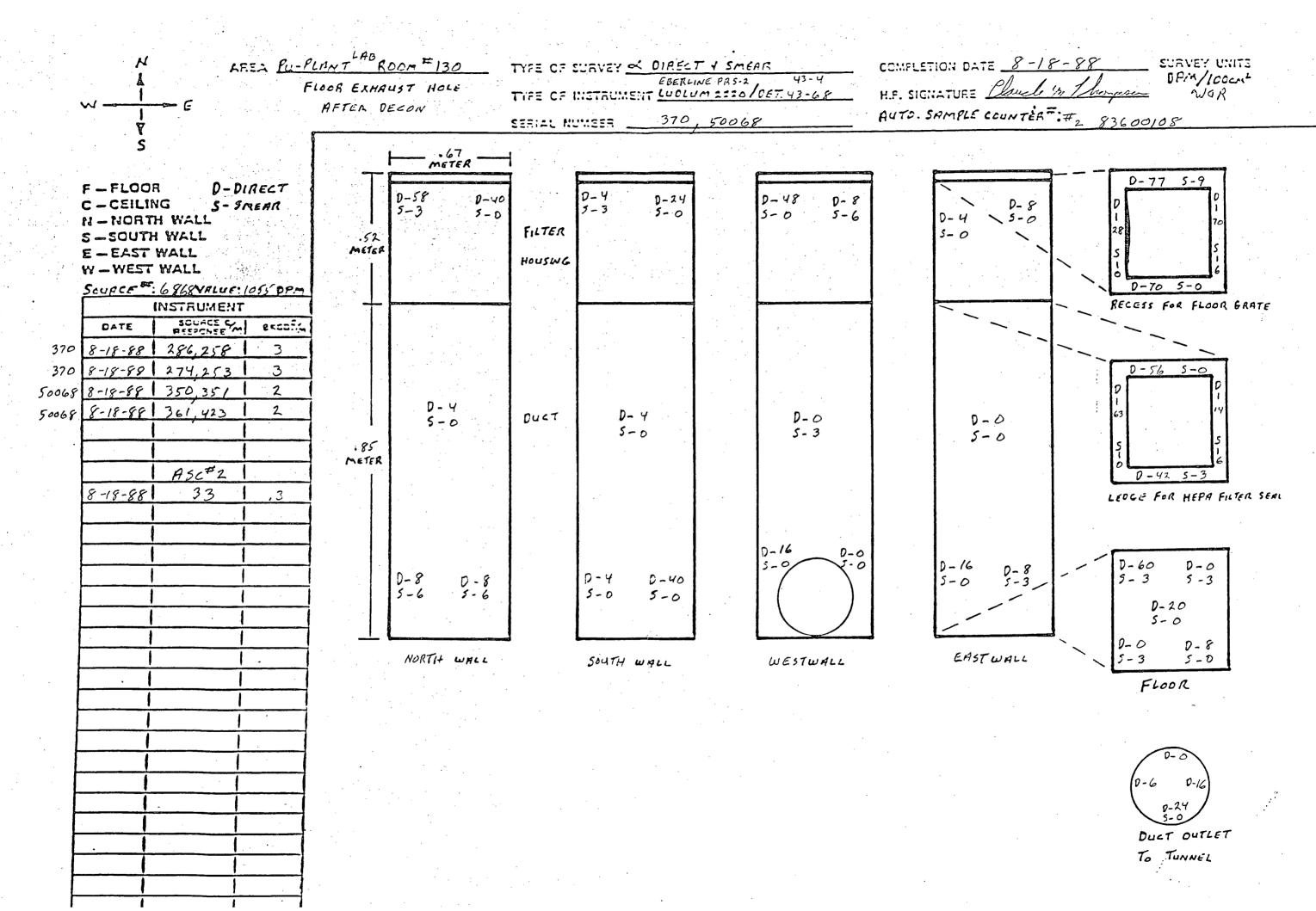
SURVEY UNITS DPM/100cmt Walk TE 8-24-85 Vauch non COUNTER # 1 83600115



FLOOR

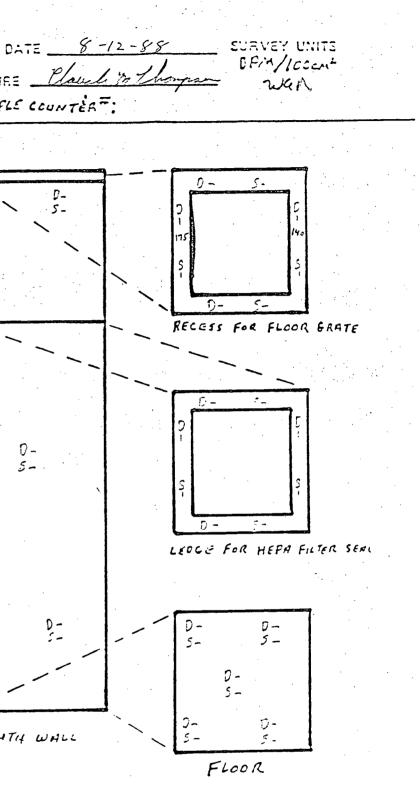
D-8 10-0 0-0 5-0 DUCT OUTLET To TUNNEL

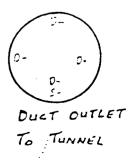




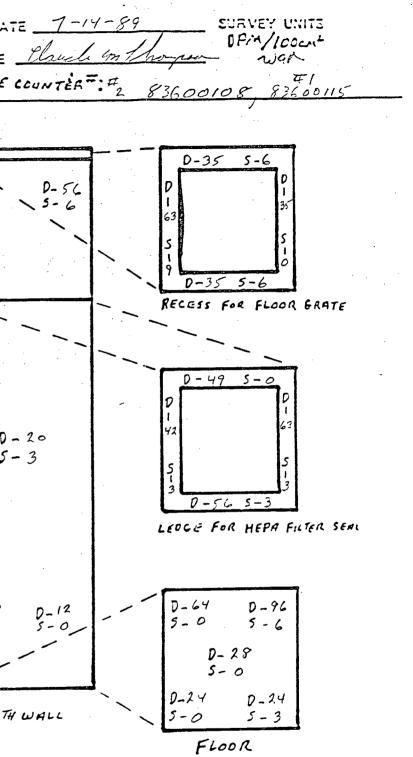
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		LAB LIINT RU FLOOR EXHAL BEFORE READINGS 7	IST HOLE	TIFE CF		PR5:2	43-4 ICET. 43-68	COMPLETION D H.F. SIGNATUR AUTO. SAMPL
 	S		.67 METER				2.4	
	F - FLOOR D-DIRECT C - CEILING S- SMEAR N - NORTH WALL S - SOUTH WALL E - EAST WALL W - WEST WALL	152 METER	D	FILTER HouswG	D- D- S		D-104 D- 5- 5-	3-5-
• • • • •	Scuper 5: 6868 VALUE: 1055 PP					· · · ·		
	DATE Scurce c excelling 8-12-88 276-264 1 11 253-266 2 11 233-282 2 11 256-257 1		D- 5-	Cuct	E - 5 -		0- 5-	
		185 METER						
			D- D-				D- 5- 5-	D- 5-
			5- 5-	· ·	D- D- 5- 5-			
			WEST WALL		EAST WALL		NOATH WALL	5047

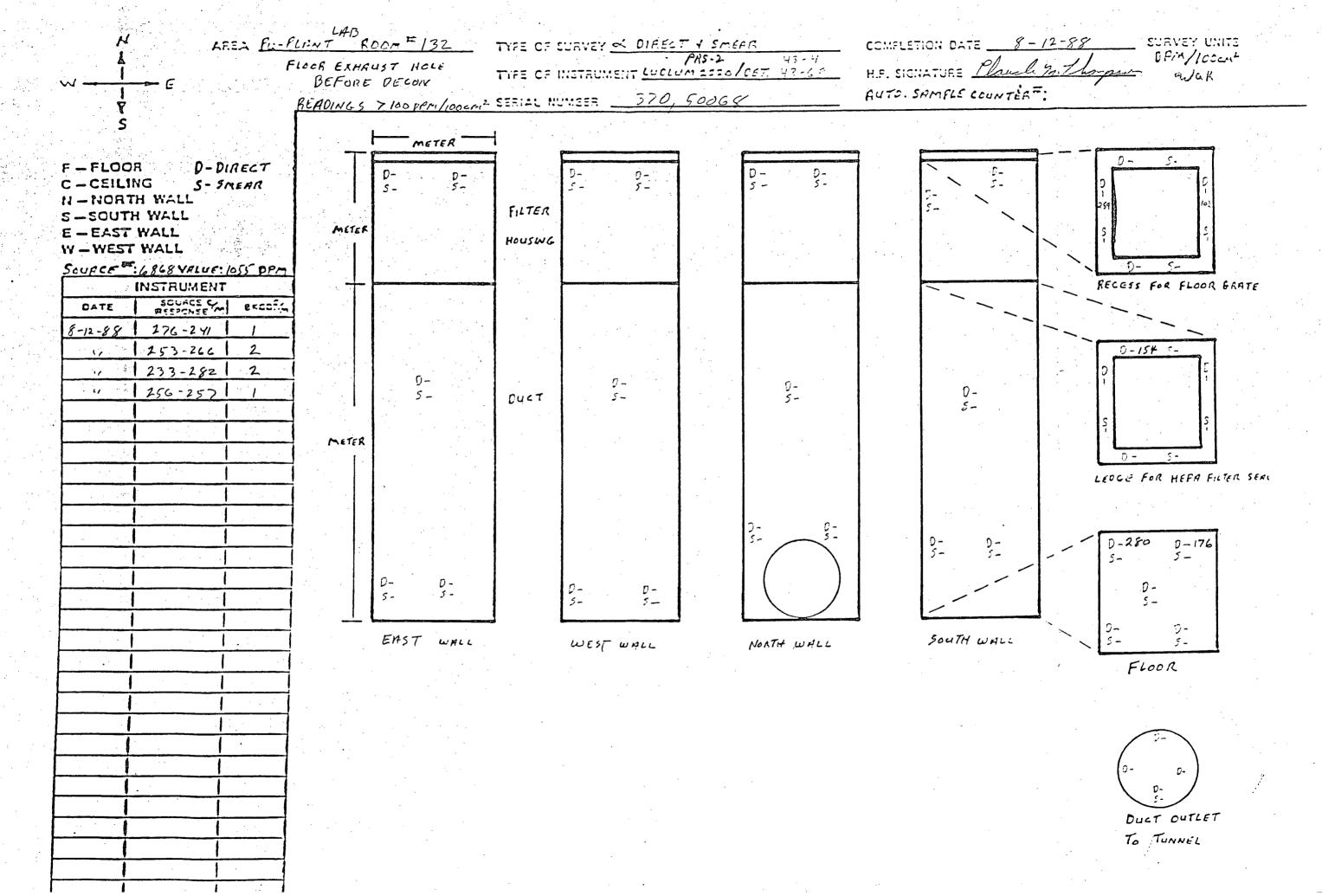




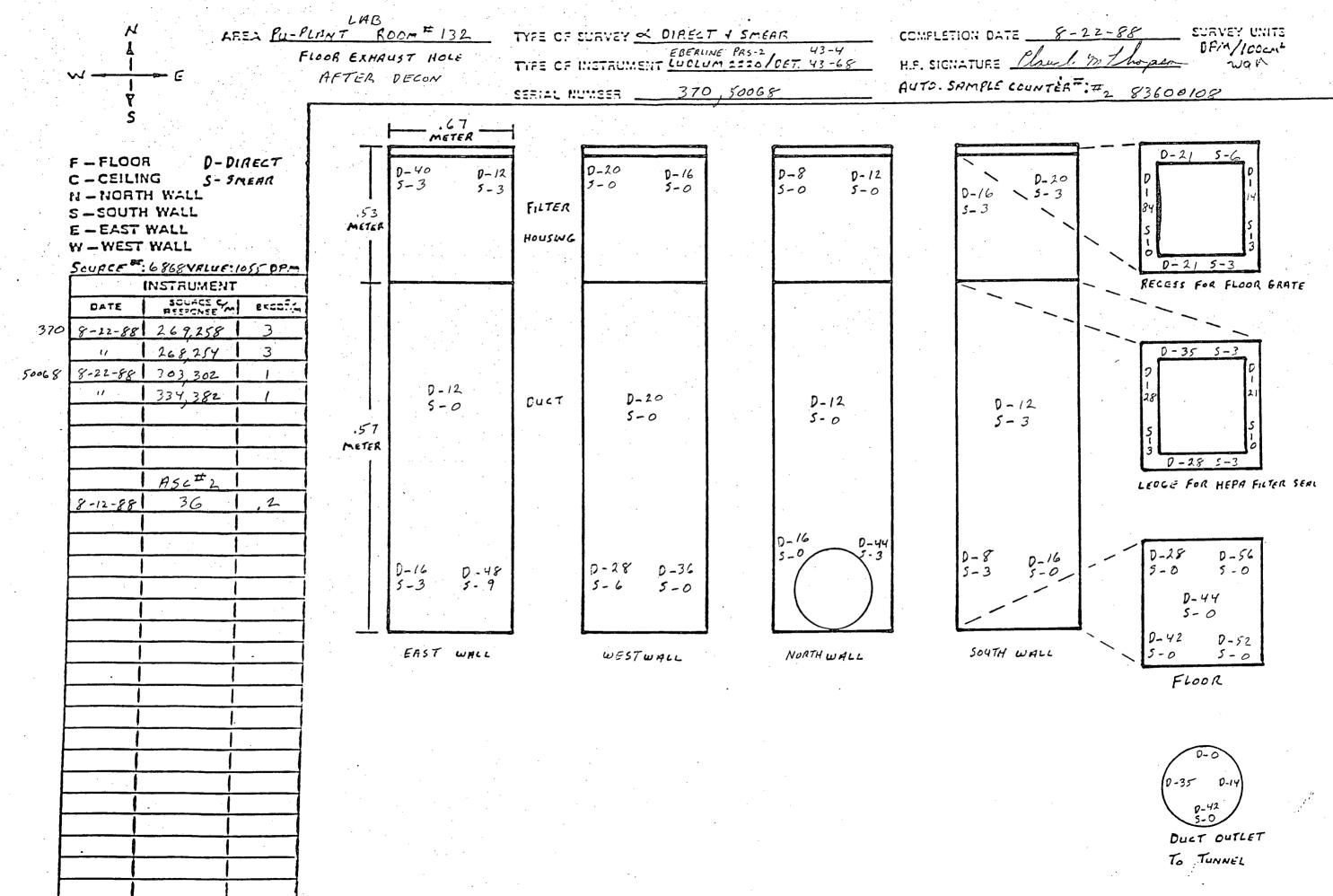
		LAB ROOM # 13 LOOR EXHAUST HOL AFTER DECON	e Tii	· · · · · · · · · · · ·	DIRELT & SME EBERLINE PRS-2 T LUCLUM 2220/ 370, 5006	43-4	COMPLETION DATE H.F. SIGNATURE _ AUTO. SAMPLE C
	S F - FLOOR D-DIRECT C - CEILING S-SMEAR N - NORTH WALL S - SOUTH WALL	D-92 5-3	D-20 5-6	D-80 J-6	D-70 5-0	D-12 D-88 S-3 S-3	D-36 5-3
	E - EAST WALL W - WEST WALL Scuper 5: 6868 VALUE: 1055 PPM INSTRUMENT DATE REPONSE 8-12-88 276,264,241		H	01566			/ /
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	D-1 5-0		ист D- с S-3		D-8 5-0	D - 5 -
48395 50064	8-18-88 350,351 2 11 361,423 2	METER				D-12 D-8	
	Asc#2 8-16-88 31 0	D-20 5-0	D - 12 5 - 0		D-16 5-6	5-6 5-0	D-20 5-0 500 TH
	A5C#1 7-14+89 30 .2	WEST		EMST w	4LL	NORTH WALL	50014
			• •		•		



0-14 0-11 DUCT OUTLET To TUNNEL

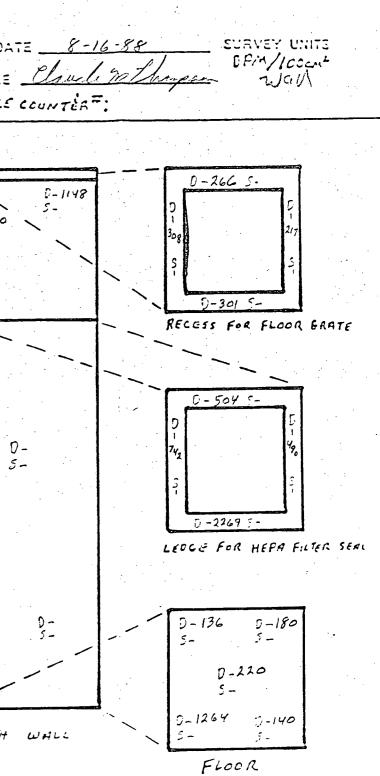


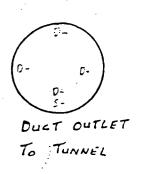
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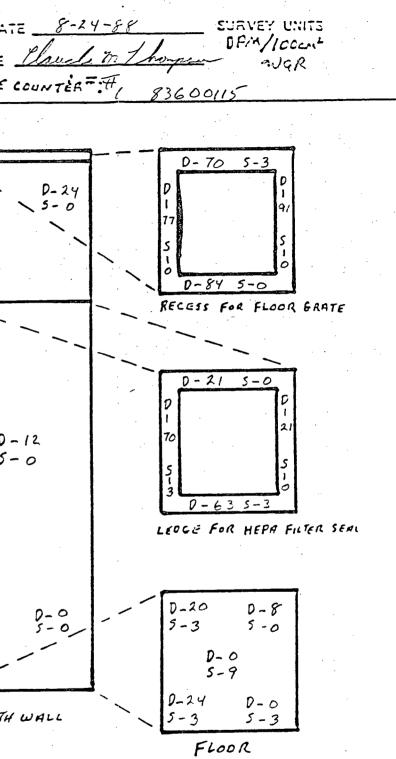
\sim	W-E BEFORT DECON			TYPE OF INSTRUMENT LUCLUM 2320/067. 43-4 H.P. SIC					LETION DAT IGNATURE . SAMFLE	
C - N - S - E - W - Ser		ENT EVM Excoling Y 2 0 2 7 2	.79 METER	D-656 D-256 S- S- D-5- S- S- S- S- S- S- S- S- S- S- S- S-	FILTER HouswG	D-496 D-496 S- S- S- S- S- S- S- S- S- S- S-		D-984 D-1508 5- 5- D- 5- S-		
				EAST WALL		LUEST WALL		Nor,TH WALL		South

.

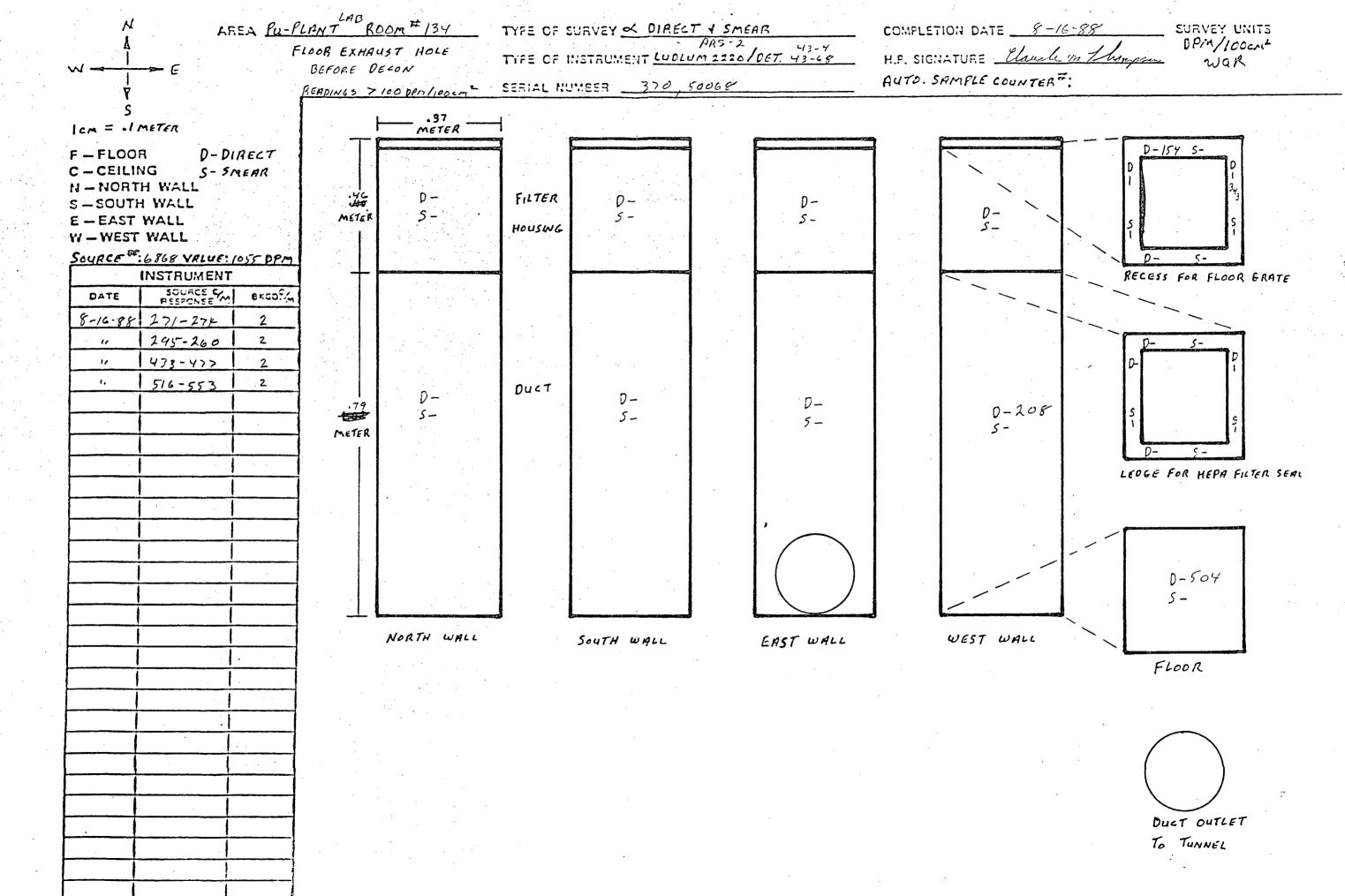




	LAB ROOM # 133 FLOOR EXHAUST HOLE AFTER DECON	TYPE OF SURVEY - DIREC EBERL TYPE OF INSTRUMENT LUDI SERIAL NUMBER	T + SMEAR WE PRS2, 43-4 UM ===0/CET. 43-68 00,50068	COMPLETION DATE H.F. SIGNATURE A AUTO. SAMPLE CO
ŝ		-		
F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL Scupce 5:6868VALUE: 1055 PPM	D-64 D-4 5-0 5-0 METER		D-40 D-24 5-3 5-0	D-12 S-0
INSTRUMENT DATE SCURCE M excel: 370 8-12-89 269,258 3 4 268,254 3				
50068 <u>11 303 302 </u> 11 <u>11 334,382 </u>	D-20 5-9 NETER	DUCT D-16 S-0	D-16 5-3	D - 5 -
ASC#1 8-24-88 34 .3			0-0 0-0	
	D-4 D-0 5-0 5-0	D-4 0-0 S-0 5-0	D-0 5-9 5-0	D-0 S-0
	EAST WALL	WEST WALL	NOBTH WALL	South C
		· · ·		
				· ·

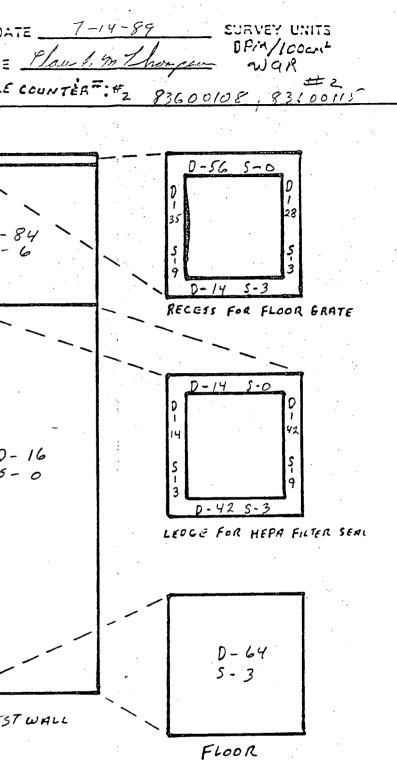


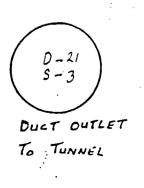
0-7 0-7 5-3 DUCT OUTLET To TUNNEL



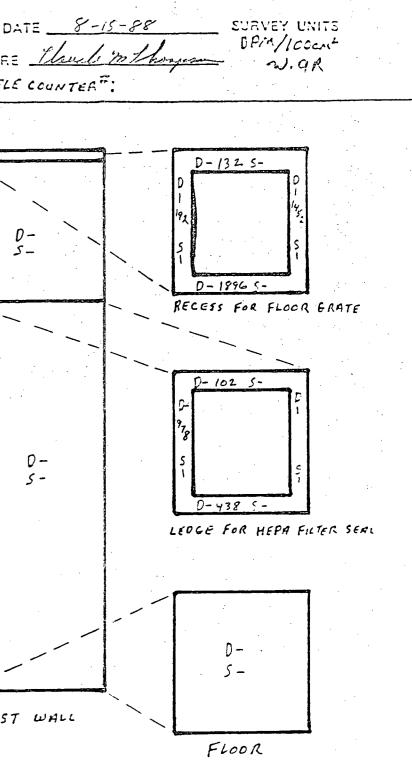
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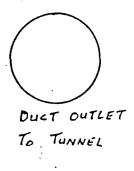
		LAB <u>LANT ROOM # 134</u> FLOOR EXHAUST HOLE AFTER DECON	· .	STAUMENT LUOL	INE PR5-2 IM 2220/	43-4	H.F. SIG	TION DATE
	Ŝ	37 METER	-					
	F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL Source E: 6869 VRLUE: 1055 DPM INSTRUMENT	-46 D-52 S-3 METER	FILTER HouswG	0-20 5-0		D-20 S-0		D-84 5-6
te	DATE SCURCE C/ RESPONSE Excoling 8-16-88 271,274 2 11 295,260 2 8-18-88 286,258 3							
50068 11 11 11 48395	8-16-88 433 477 2 1. 516 553 2 8-18-88 350,351 2 361,423 2 7-14-89 275,269 0	.79 METER D-8 S-0	CUCT	D-12 5-6		D- 4 5-0		D-1 5-0
	ASC#21 8-17-88 34 .3				•			//
	1456#1 7-14-89 30 1.2	NORTH WALL	• • •	SOUTH WALL		ERST WALL		WE3 7 u
							·	



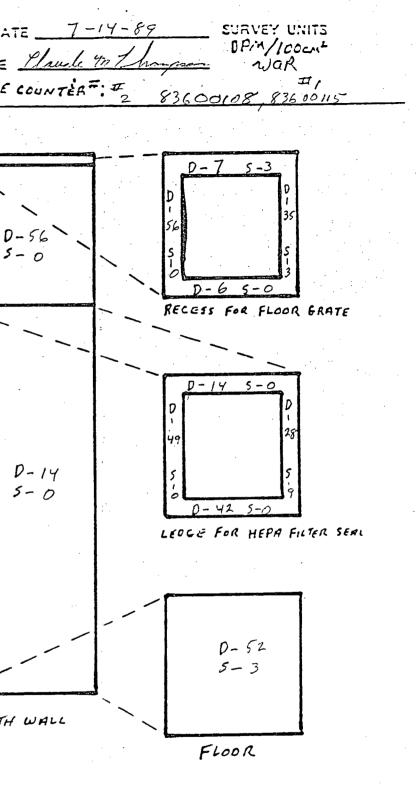


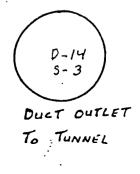
W - E	DEPORE VECON	TYPE OF I	NSTRUMENT LUDL	PAS-2	43-4 167. 43-68	H.P. SICE	NATUR
S Icm = .IMETER	READINGS 7 100 DPM/100000			<u>, , , , , , , , , , , , , , , , , , , </u>			<u> </u>
F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL SOURCE SC 6968 VALUE: 1055 DPM INSTRUMENT DATE SOURCE CM EXEDIM 8-15-88 307-303 2	.40 METER 5-	Filter Houswg	D - 132 5 -		D-460 S-		
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	D- 1.02 S- METER	Duct	D- 5-		0- 5-		
					, C		
	NORTH WALL		South WALL		EAST WALL		WES
					:	,	



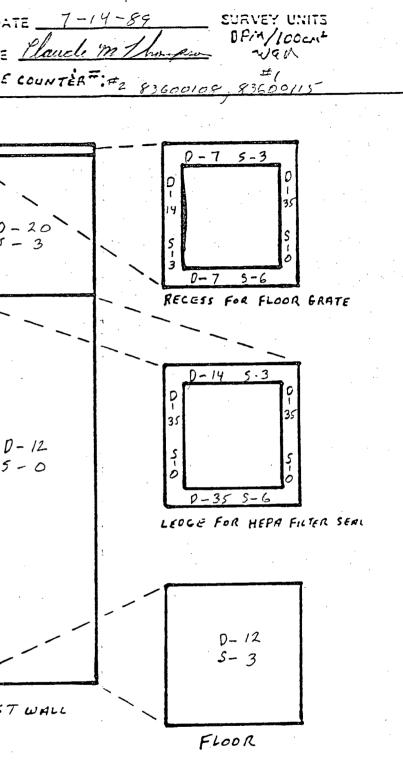


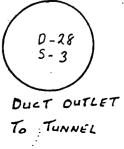
N AREA $V = \frac{1}{1} E$	PU-PLANT ROOM #135 FLOOR EXHAUST HOLE NORTH	TYPE OF SURVEY & DIRE	LINE PRS-2, 43-4 LUM 110/0ET. 43-68	COMPLETION DATE H.F. SIGNATURE A AUTO. SAMPLE CO
Ϋ́	HFTER DECON	SERIAL NUMBER 32	0, 50068, 50064	ACTO SAMATE CO
S	, 37 			
F-FLOOR D-DIREC C-CEILING S-SMEAN N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL W-WEST WALL Source : 6869 VALUE: 1075	2 40 METER 5-0	FILTER D-88 5-6 HOUSWG	D-16 5-3	D- 5-
INSTRUMENT DATE SOURCE CALL BE BESPONSE ALL BE 370 8-18-88 286258 3 11 11 274253 3				
50068 11 350,351 2		DUCT D-14 5-0	D-7 5-0	D
B-17-88 34)-0	5.
145C#1 7-14-59 30 .2				
	EAST WAL	L WEST WALL	NOBTH WALL	SOUTH L
		· · · ·		
			• •	
		· · · · ·		

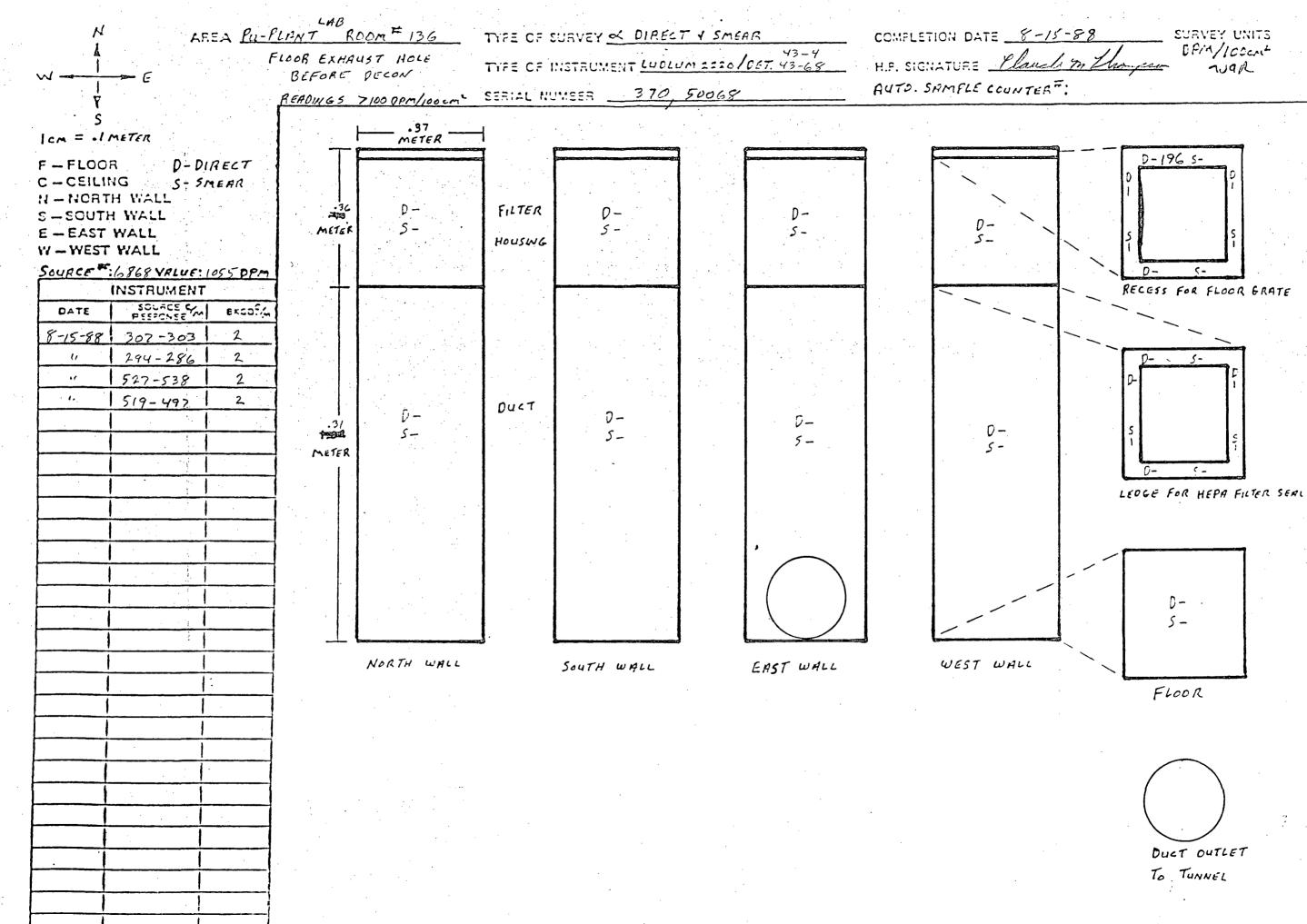


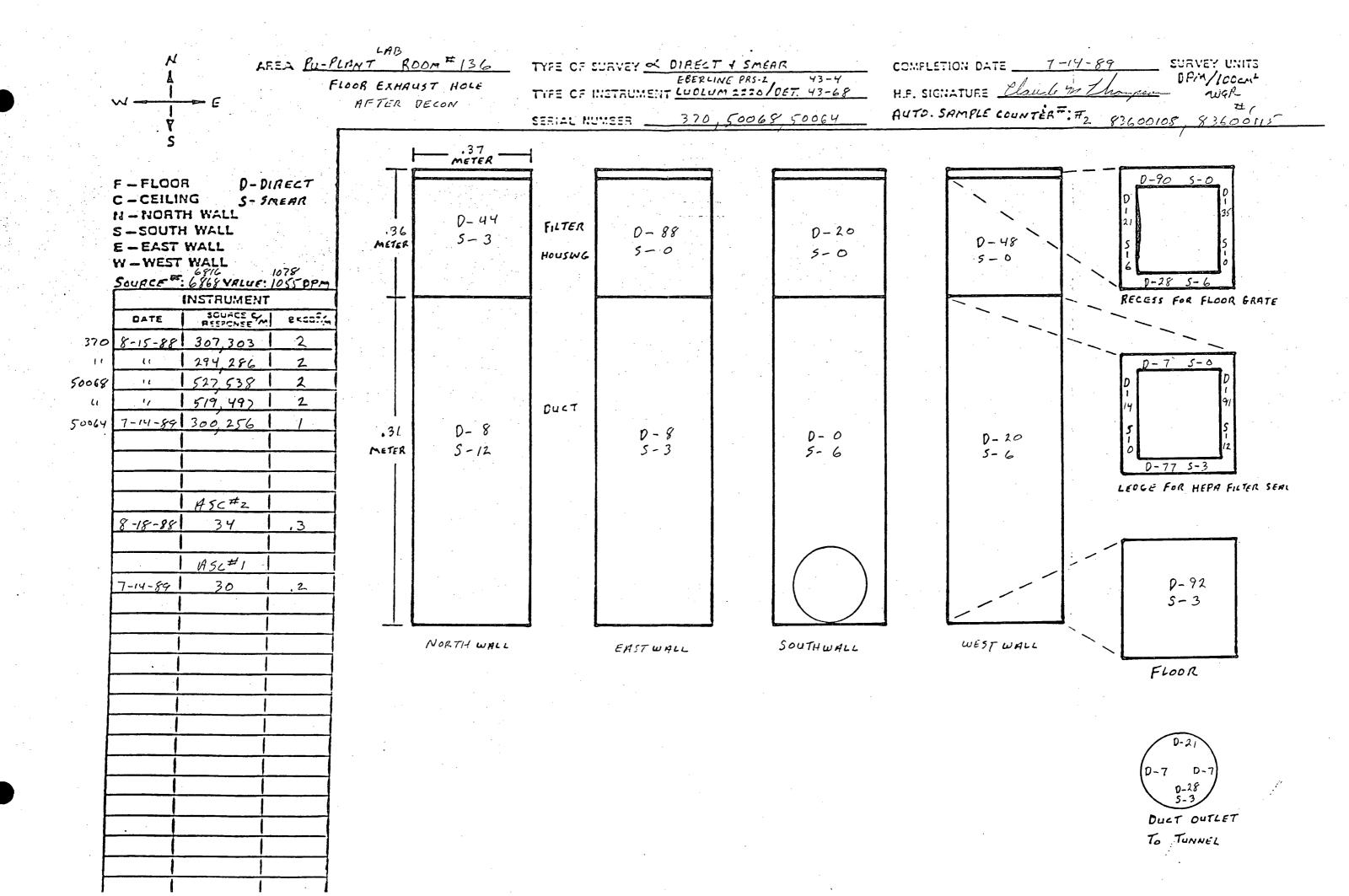


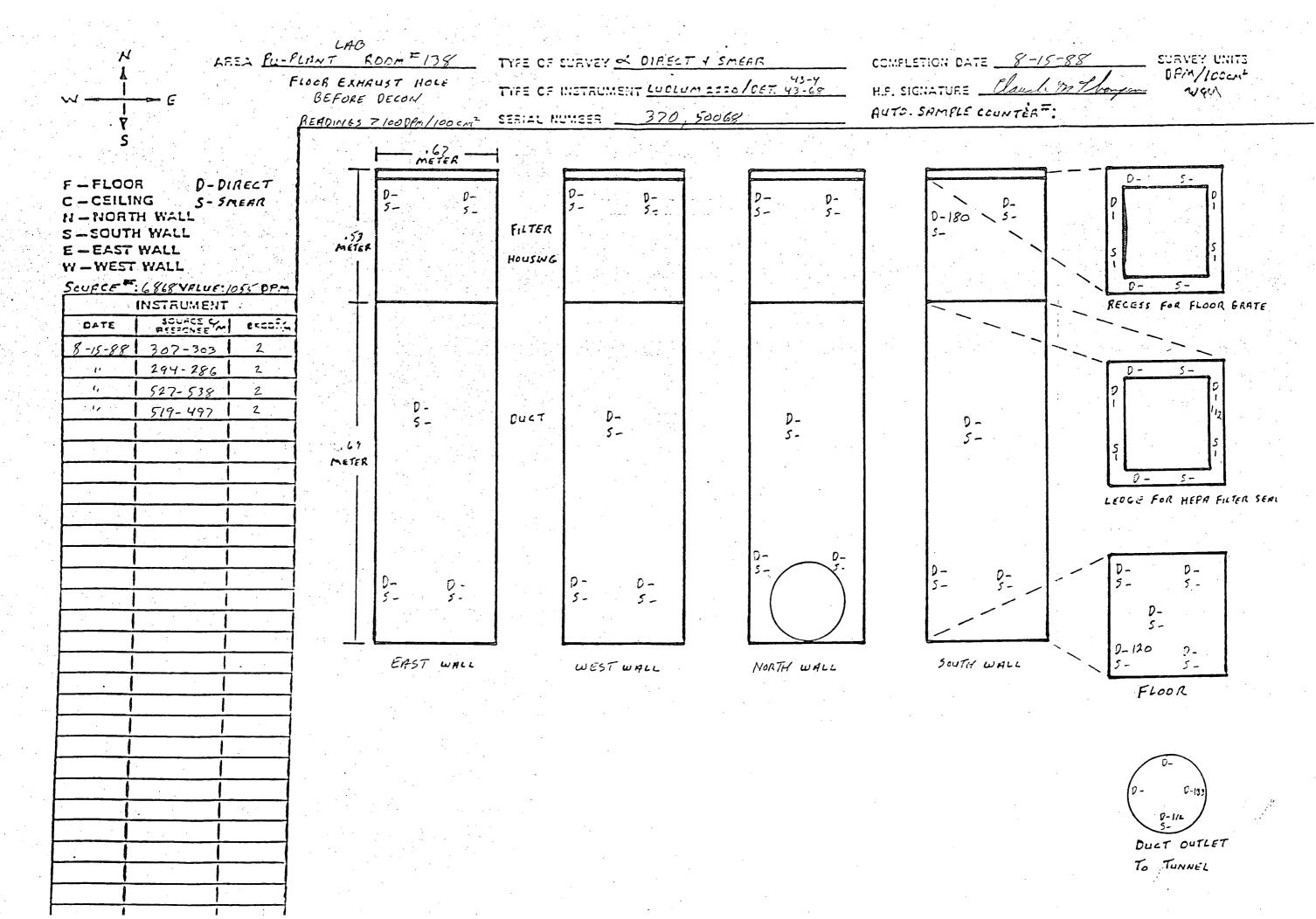
F = FLOB = 0 Instantial series of the s	•	1	LAB ROOM # 135 FLOOR EXHAUST HOLE SOUTH	· · ·	NETRUMENT LUOL	INIE PRS 2 IM 2220/	43-4	H.F. SIGN	ION DATE ATURE <u>/</u> RMPLE CO
$F = FLOOR D = DIAECT C = CEILING S = SREAR H = NORTH WALL S = SOUTH WALL E = EAST WALL W = WEST WALL W = WEST WALL 0 = 28 D = 12 Source \frac{1}{5}\frac{526}{52} VAUUE: 10.78NNSTRUMENTDATE \frac{1}{570-52} \frac{10.75}{52} \frac{2}{2}\frac{1}{10} \frac{1}{274}, 282 \frac{1}{2}\frac{1}{10} \frac{1}{274}, 282 \frac{1}{2}\frac{1}{10} \frac{1}{572}, 552 \frac{2}{2}\frac{1}{10} \frac{1}{10} \frac$	• •	Y S							
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		C-CEILING S- SREAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL 6916 1078 Source 5168 VALUE: 1055 DPM	D-44 .38 5-0						D - 2 5 -
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	ti i	DATE SOURCE 4/1 Excating 8-15-88 307,303 2 11 294,286 2							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$.86 5-3	DUCT					D-1 5-1
7-14-89 30 .2									
			NOKIH WALL		SOUTHWALL	· · ·	WEST WALL		
					·	,			



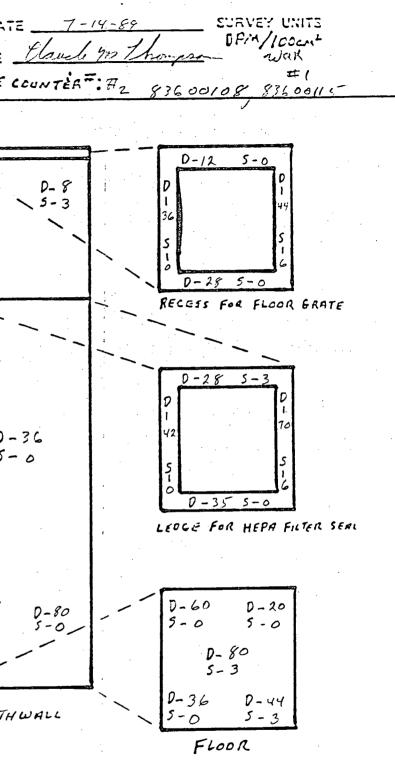


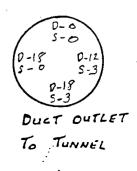


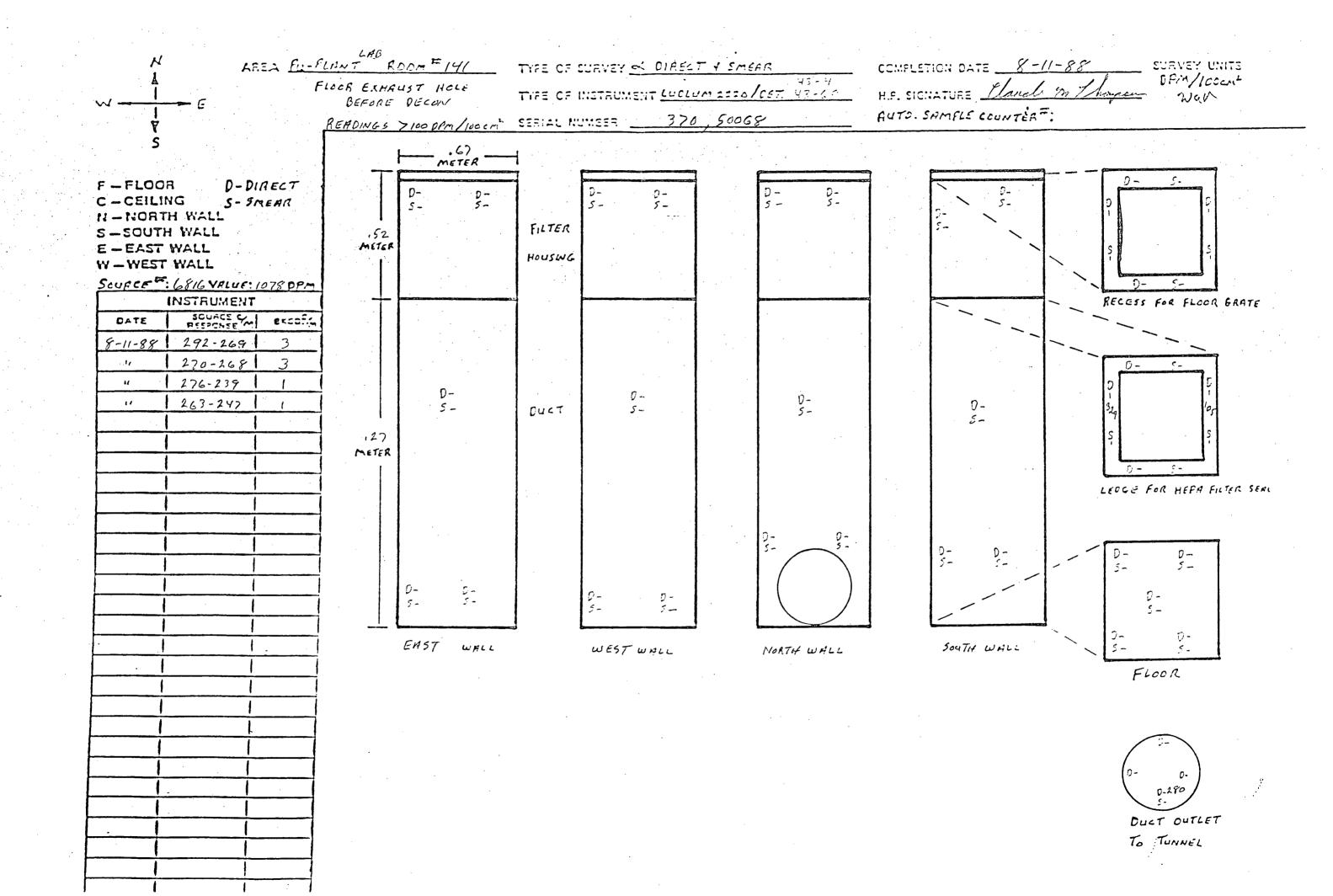




•	· 1	AFTER D	ST HOLE ECON		NETRUMENT LUCL	INE PRS-2 UM 22201	43-4	H.F. SIG	TION DATE NATURE _ SAMPLE C
	S	F	.67 METER						
	F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL W-WEST WALL Scurce 6868 VALUE: 1055 PPM		D-80 D-44 5-3 5-6	FILTER HouswG	D-16 D-36 3-0 5-0		D-20 D-64 5-0 5-12		D-8 5-0
370 11	INSTRUMENT DATE SOURCE C/ EXECTING 8-15-88 307 303 2 4 294 286 2								
5006 8 11 370 11 50064	1 527, 538 2 1 519, 497 2 8-17-88 297, 270 3 11 284, 154 3	.69 METER	D-20 5-3	Duct	D-0 5-3		D-8 5-0		D - 5 -
48395	11 275,269 0 Asc#2								
	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		D-36 D-40 S-0 S-0	•	D-48 D-16 S-3 S-0		D-44 5-3 5-3		D-48 5-0
		L	EAST WALL		WEST WALL	3	NORTHWALL		SOUTH

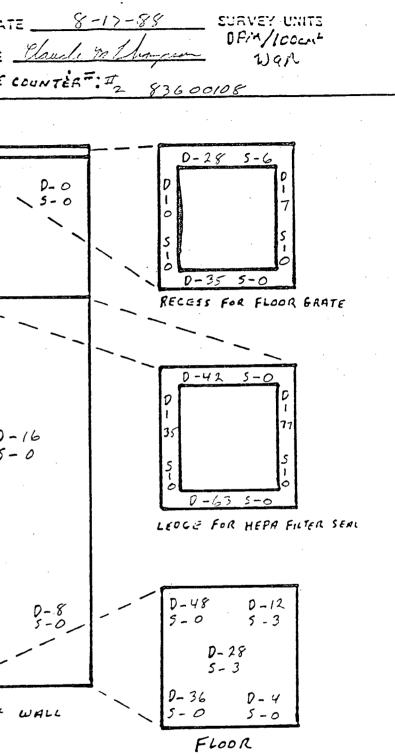


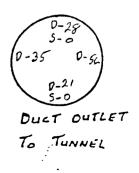


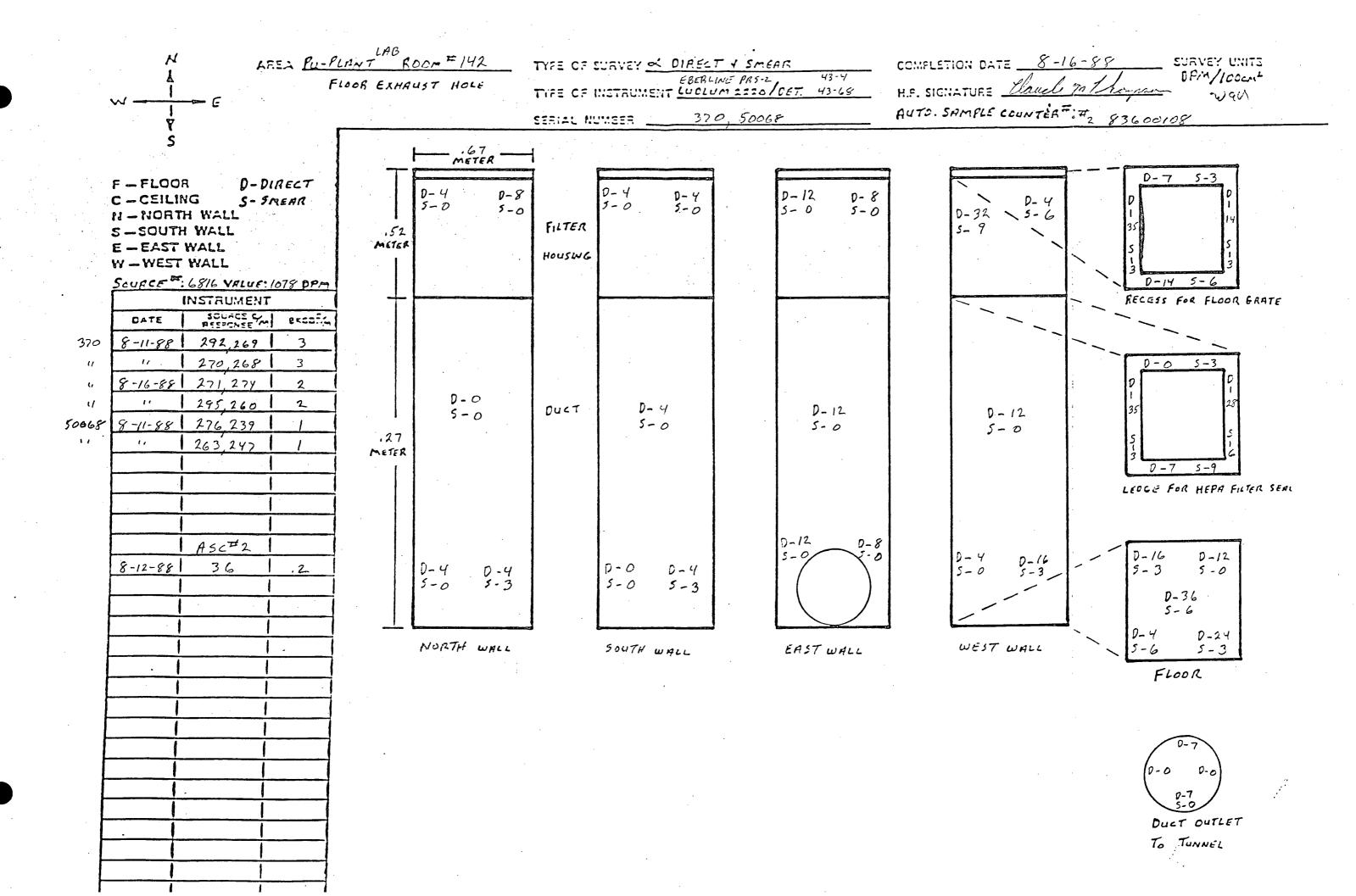


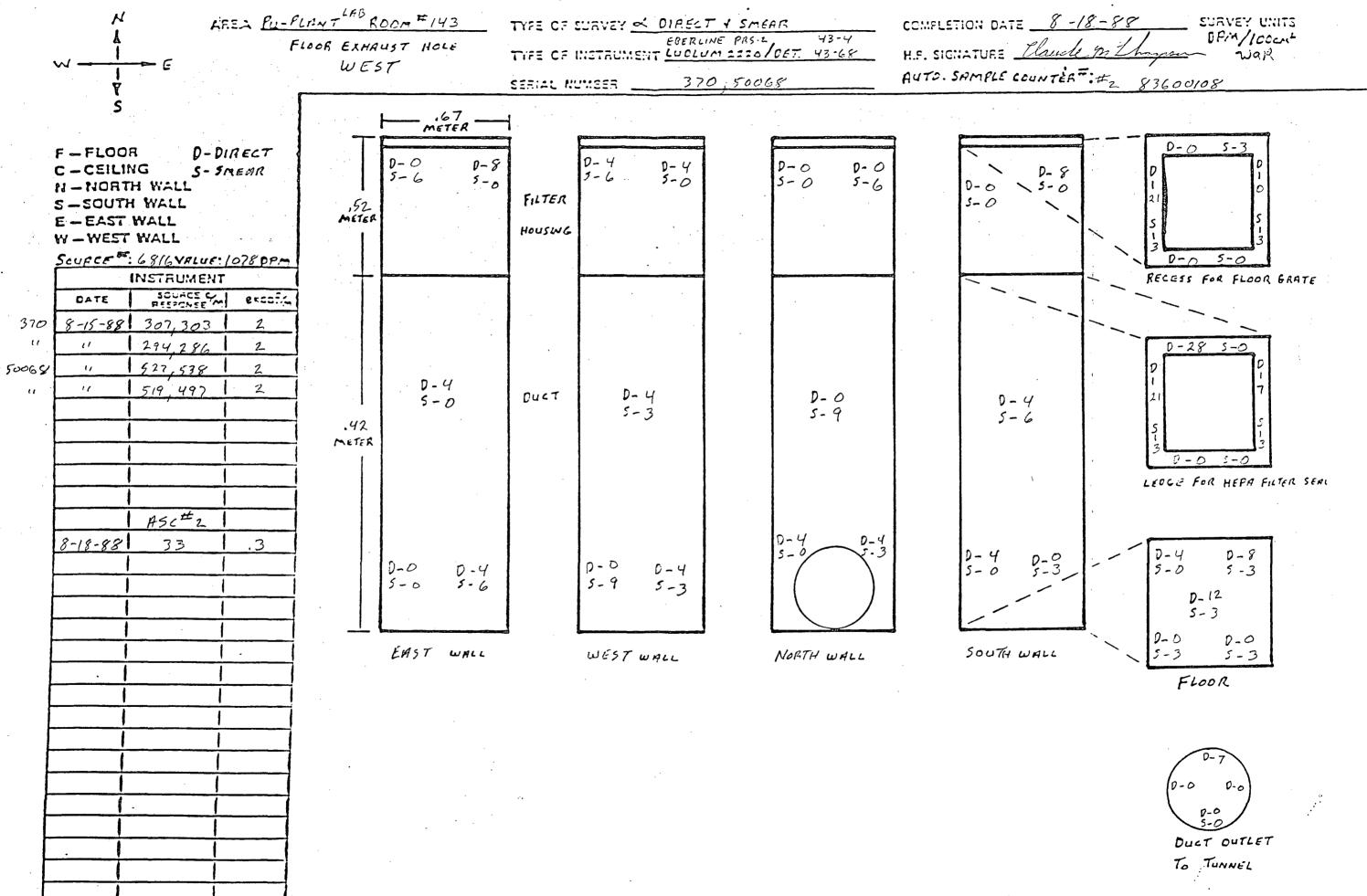
$\frac{N}{1} = E$	-PLIJNT R FLOOR EXHA AFTER	UST HOLE	TYPE OF TYPE OF SERIAL N		T Y SMEAR NE PRS-L 43-4 M 2220/CET. 43-68 D, 50068	COMPLETION DATE H.P. SIGNATURE AUTD. SAMPLE CO
S		.67 METER -	-			· · · ·
$F = FLOOR$ $D = DIRECT$ $C = CEILING$ $S = SREAR$ $N = NORTH$ $WALL$ $S = SOUTH$ $WALL$ $E = EAST$ $WALL$ $W = WEST$ $WALL$ $W = WEST$ $WALL$ $Scupce^{-M}$ $ECORCE^{-M}$ $NSTRUMENT$ $SCUACE CM$ $OATE$ $SCUACE CM$ $B = H - gg$ $292, 269$ 11 11 $1270, 26g$ 3 11 $8 - 17 - gg$ 11 $284, 254$ 3		D-12		D-12 J-0 D-14 J-0 J-0 D-12	D-16 D-72 S-0 S-3	D-60 5-3
$\begin{array}{c c c c c c c c c c c c c c c c c c c $.27 METER	5-0 D-4 D-4 5-3 5-0		S-3 D-0 D-4 S-0 S-0	D-8 S-0 S-0 S-0 S-0 S-0 S-0 S-0 S-0 S-0 S-0	D-8 5-0
		EAST WALL		WEST WALL	NORTH WALL	South L

-

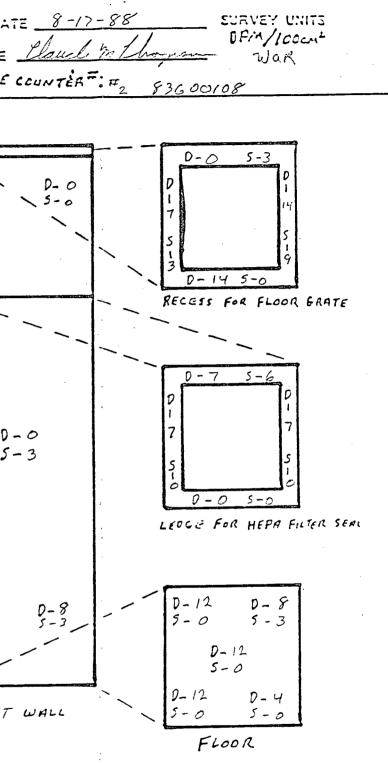


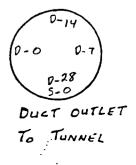




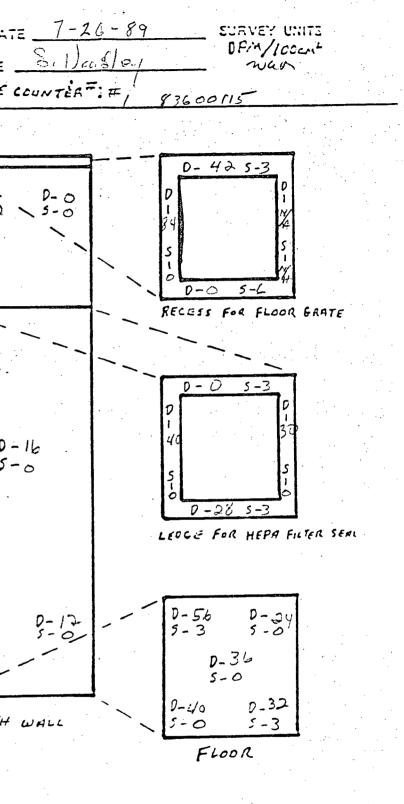


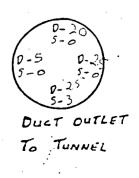
	1	LAB LIZYT ROOM #143 LOOR EXHAUST HOLE SOUTH	TYPE OF SURVEY & DIRELT 4 S EBERLINE PR TYPE OF INSTRUMENT LUCLUM 22 SERIAL NUMBER	5-2 43-4 =0/CET: 43-68	COMPLETION DATE H.F. SIGNATURE AUTD. SAMPLE CO
	S	.67 METER		, , , <u>, , , , , , , , , , , , , , , , </u>	
	F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL S-SOUTH WALL E-EAST WALL W-WEST WALL Scurce F: 6816 VRLUE: 1078 PPM	D-20 D-4 5-6 5-3 METER	D-4 D-12 J-3 FILTER HOUSWG	D-12 D-0 5-3 5-3	D-12 5-9
370 11 50068	" 294,286 2	D-4 5-3	DUCT D-D	D-8	
	H5c [#] 2	1 5-3 NETER	5-0	5-0	D - C 5 - 3
	8-17-58 34 1,3	D-12 D-8 5-3 5-0	D-12 D-4 5-6 5-3	D-12 S-0 S-0 S-0	D-8 5-0
		NORTH WALL	SouTH WALL	EAST WALL	WEST U





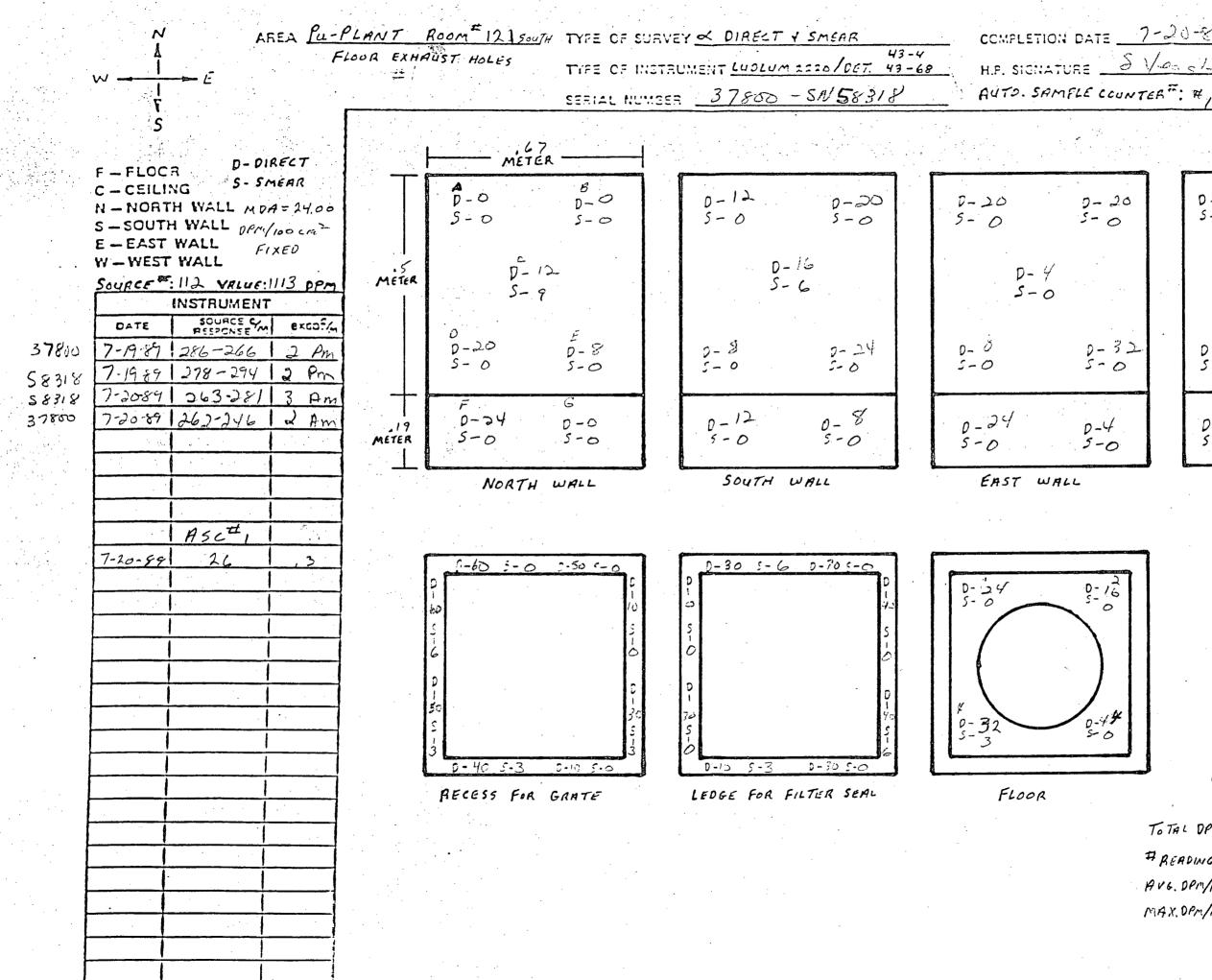
					•			
$\mathcal{N} = \frac{1}{1} \mathcal{E}$	AREN <u>FU-FLANT</u> FLOOR EX	HAUST HOLE	THEE CE I	CRVEY <u>COIRES</u> CRVEY <u>CUCLE</u> 43-4 MEER <u>58318</u>	43-68	43-4 43-68 43-4	H.F. SIC:	ATURE
Ś		.67 METER					ſ	
	DPr1/100 cm2 MG	D-4 D-28 5-0 5-3		D-36 D-12 J-0 J-0	D- 5-	8 p-32 0 5-0		D-32 5- 5-3
INSTAUX DATE SCUAR 37800 7:35-89 249-2 58318 7-25-89 249-2 50064 7-25-89 249-2 58318 7-25-89 265-2 58318 7-25-89 263-2	$\frac{1ENT}{5E^{m}} = \frac{1}{1200}$ $\frac{1371}{14m}$	D-J0 5-0	Duct	D-4		D- 20		0-16
37800 7-25-89 252 2	.71 MET 1	4		5-0		S- 3		5-0
		0-40 0.44 5-0 5-0		D-16 D-4 S-3 S-3	D- 5-(44 0.40		D-0 5-0 5-
		EAST WALL TOTAL DPM	DIREC 899	45	Nor	RTH WALL		SOUTH WAL
		I READINGS AVG. DPM/100cm ² MAX. DPM/100cm ²	36 24.9 84				•	
			•		•			





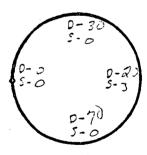
	N AREA	PU-PLHAIT	Room the second	K TYPE OF SURV	EN & DIRECT	J Smean	
		FLOOR EXH	AUST HOLES		• .	43-4 2220/067. 43-6	COMPLETION D
				SERIAL NUMBE		37800 - 43	-6 AUTO. SAMFL
	S						
	F-FLOCA D-DIRECT		METE	R			
	C-CEILING 5- SMEAR N-NORTH WALL MOR = 2	1.00	D-4 S-3	D-12 5-3	0-24 5-3	0-0 5-0	0-8 5-6
	S-SOUTH WALL PPAUlood E-EAST WALL FIXED W-WEST WALL 1055						,-0
	Source : 112 VALUE:1113 INSTRUMENT		D - 8 S - 3	3	D- S-		p-0 5-0
58318		eofin 2 Pri	9-0 2-3	0-12- 5-3	g_ 0	2- 4) 2- 3	9- 0 2- 0
37800 58318	17.11.20 769 -35-71 2		2-3	5-5	5-0	- 3	
	ASC#2	METER	0-0 5-3	0-12 5-9	D-20 5-6	0 - 0 5 - 3	0-8 5-0
	7-21-89 30	2	NORTH	WALL	SOUTH	WALL	EAST WALL
			<u>0-10 3-3</u> 0 1 1	2-10 - 3 P 1 50	0-20 :-0 0	9-10 -0 1 40	D-8 5-0
			S - 3 E - 1 O	9-12 0-2	S 1 0 1 1 10	S - U 5 - U	
			5 - 10 - 3	<u>- 40-9</u>	S-0 S-3	2-405-93	0-20 S-0
			RECESS FOR	GRATE	LEDGE FOR F	ILTER SEAL	FLOOR
				To TAL DPM # REHOINGS AUG. DPM/100cm ²	<u>DIRECT</u> 659 52 12.67	<u>SMIEAR</u> 129 52 2.48	· · ·
				MAX. OPM/100Cm ²	60	9	
			•	· .	• •		

DATE 1-21-29 SURVEY UNITS DPM/100cnt - Mark S. Wasten RΞ FLE COUNTER #2 83600108 5-32 5-3 0-20 5-9 0-20 5-6 0-4 5-3 1-0 5-12 5-0 2-0 D-0 5-3 0-0 5-3 0-8 5-0 WEST WALL 0- 0 5- 0 0-35-9-2 5-3 D-10 0-20 DUCT



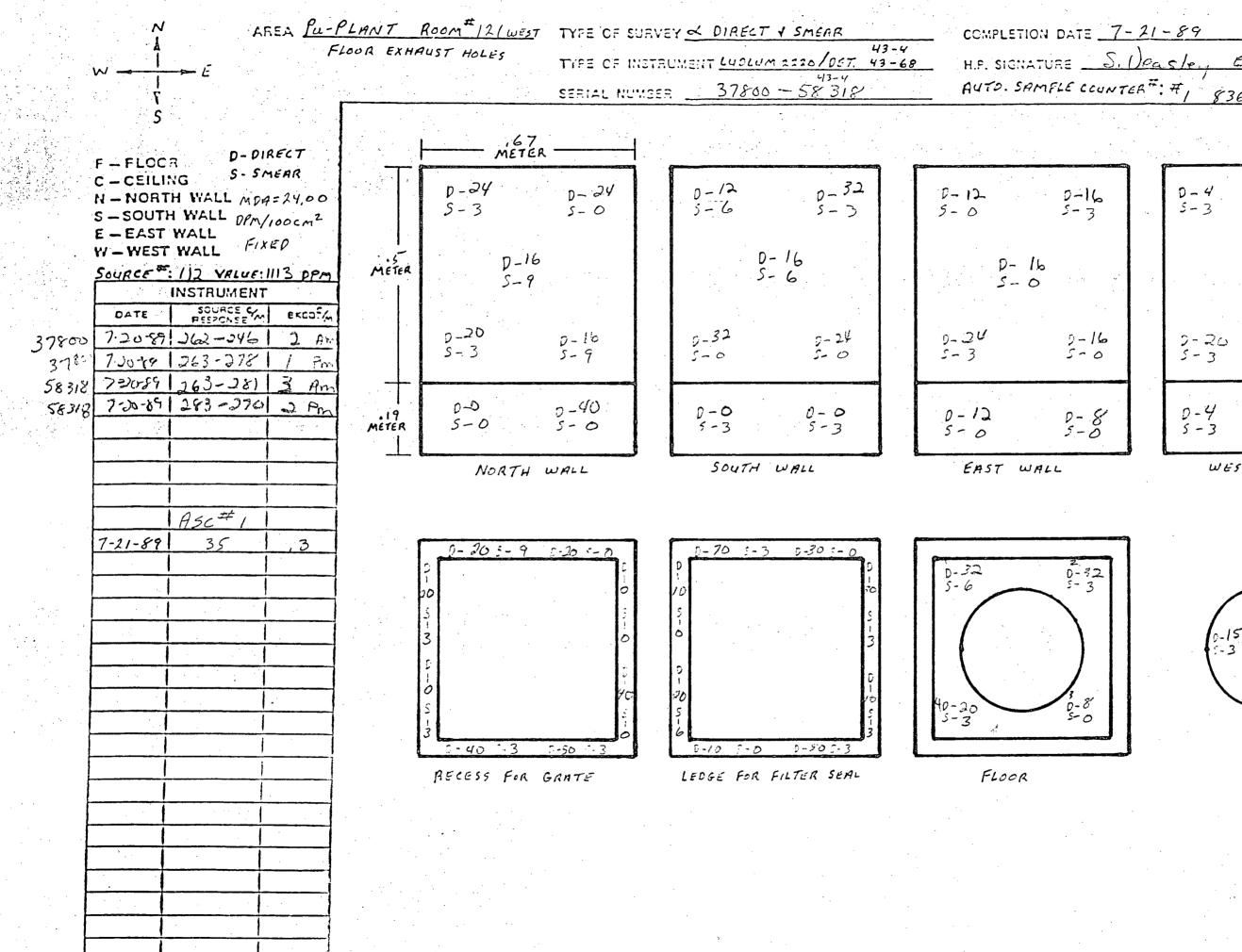
7-20-89 SURVEY UNITS DPM/100cmt S Vandle. relat 83600115 0-8 0-28 5-0 5-0 0-32 5-0 0-0 0-16 5-0 0-4 0-0 5-6 5-3

WEST WALL



ALL HOLES IN RM 121 (5)

,	DIRECT	SMEAR
TOTAL DPM	4191	402
# READINGS	215	215
AV6. DPM/100cm2	19.49	1.87
MAX. OPM/100cm2	90	9

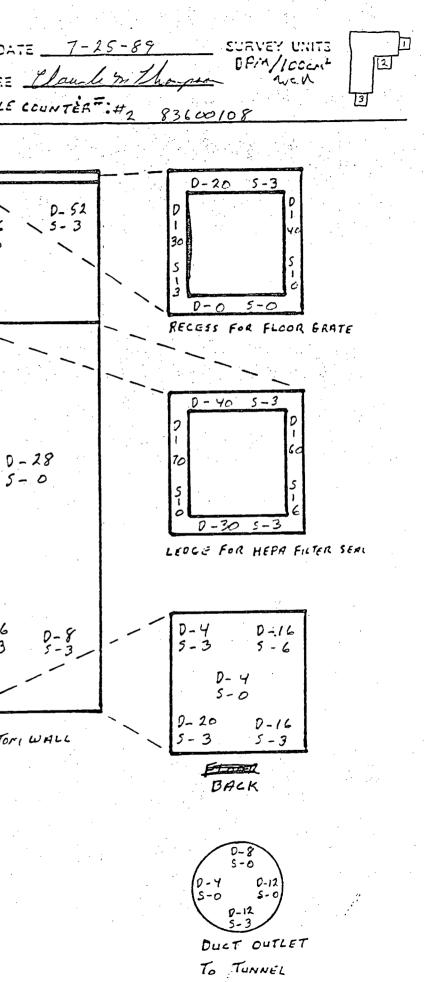


SURVEY UNITS DFM/100cm2 e-Walt 83600115 0-12-5-0 0-16 5-0 5-16 0-81 5-0

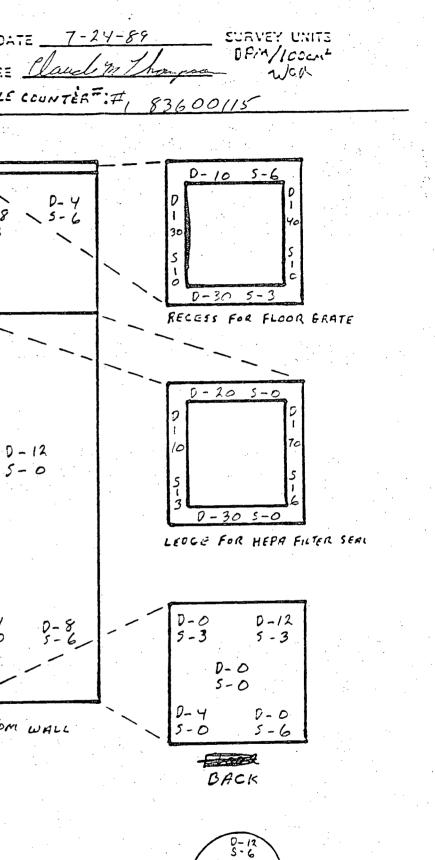
WEST WALL

0-20 --0 02-20 DUCT

	N L	ARE			UST HOLE		•	· · · ·	43-4		TION DA
		E			437 10-6	TIFE CF	1112TRUMENT LUCL 43-68 1112ER 37800	+ 43-4		H.F. SIG AUTO.	NATURE SAMPLE
	Ś				METER	1	6				
	S – SOUTI E – EAST W – WEST	NG S- SM H WALL MOA H WALL DPM/I WALL FIXE	EAR =19.60 00cm ² ED	.50 Meter	D-4 D-12 S-6 S-0		D-12 D-4 3-0 5-9		D-20 D-0 S-0 S-3	•	D-16 5-0
		1/2 VALUE: 11 INSTRUMENT				a				-	
37800 58318	DATE 7-24-89 11	SOURCE C RESPONSE M 240,245 264,300	exco::// 2 2								
	7-25-89	Asc#2 29	,2	.46 Meter	D-4 5-6	DUCT	D-8 5-0		D- 4 5-6		D 5
									D-8 S-0 S-3-3		
					D-12 D-0 5-3 5-0		D-12 D-16 5-0 5-0		D-8 5-0 5-0 5-0		D-16 5-3
			· · ·		LEFT WALL	· · .,	RIGHTWALL		TOP WALL		Bottor
										2 ⁴	
				• • •			· ·	· .			



		LANT ROOM #121 P.T		L DIRELT Y SMEAR 43-4	COMPLETION DATE
	$W - \frac{1}{1} \in E$	LOOR EXHRUST HOLE #2	TYPE OF INSTRUME	43-68 47-4 37800,58318	AUTO. SAMPLE COUNTER # , 8
	S	- 67 METER			
	F-FLOOR D-DIRECT C-CEILING S-SMEAR N-NORTH WALL MDA=15.68 S-SOUTH WALL DPM/100cm ² E-EAST WALL FIXED	D-8 5-0 5-0 METER	D- O J- D FILTER HOUSING	D-20 5-3 5-3 5-3 5-	20 3 D-28 5-6 5-3
- 37800	Scupef II2 VALUE: III3 PPM INSTRUMENT INSTRUMENT DATE Scuace of the scole of the scol				
58318	11 273 272 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	D - 8 5 - 0 METER	CUCT D- S-		D-12 5-0
	7-24-89 33 .3	D-4 D-4 5-3 5-3	p-0 5-3	0-0 5-0	-16 -16 -16 -16 -16 -16 -16 -16 -16
		LEFT WALL	RIGHT 6	WALL TOP WALL	BOTTOM WALL
			•		

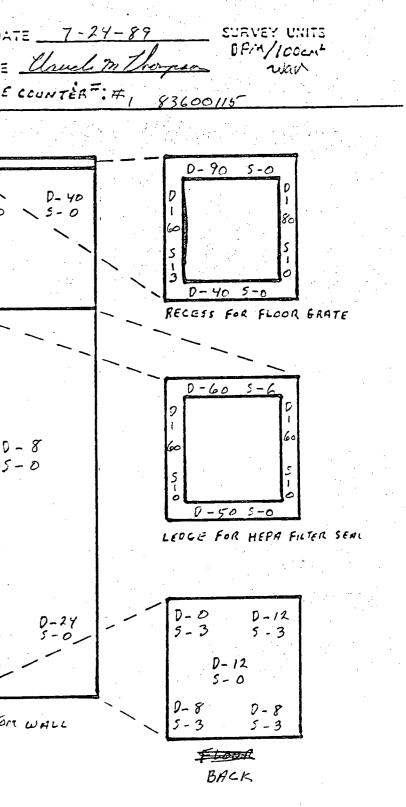


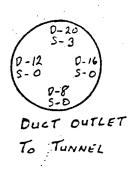
S-9

DUCT OUTLET

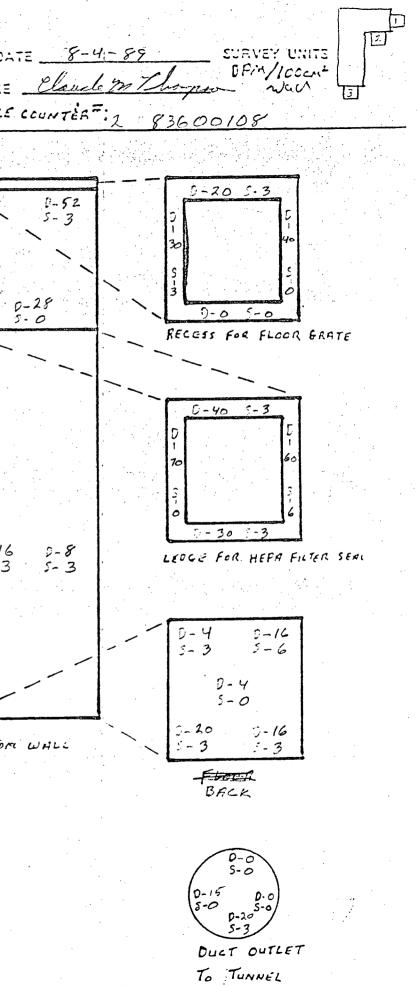
To TUNNEL

	۲۷ ۱			ELOCR EXHA	AUST HOLE		•	LUCLUM 1110	10ET. 43-68	COMPLET	
∀		E		#3		SEELAL N	· · ·	43-68 37800	43-4	AUTO. S	AMFLE
	Š										6
C S E Y	s — South E — EAST Y — WEST Scupce	NG S- 51 H WALL MDR I WALL DPM, WALL FI, WALL FI, 1/2 VRLUE:	100cm² XED 1113 PP-	.50 Meter	D-16 D-2 5-9 5-0		D-16 3-3	D-4 5-3	D-16 D-0 5-0 5-0		D-20 5-3
. 	DATE 7-24-89	191,288 273,272									
58318	7-24-89	ASC [#] 1	,3	.46 METER	D - 32 5 - 0	Cuct	D-16 5-0		D-8 5-0		0 - - 5 -
					D-4 D-48 5-3 5-0			- 4 - 3	D-20 5-3 -3	8	D-0 5-0
					LEFT WALL		RIGHT WA	LL	TOP WALL		BOTTOM
						•					

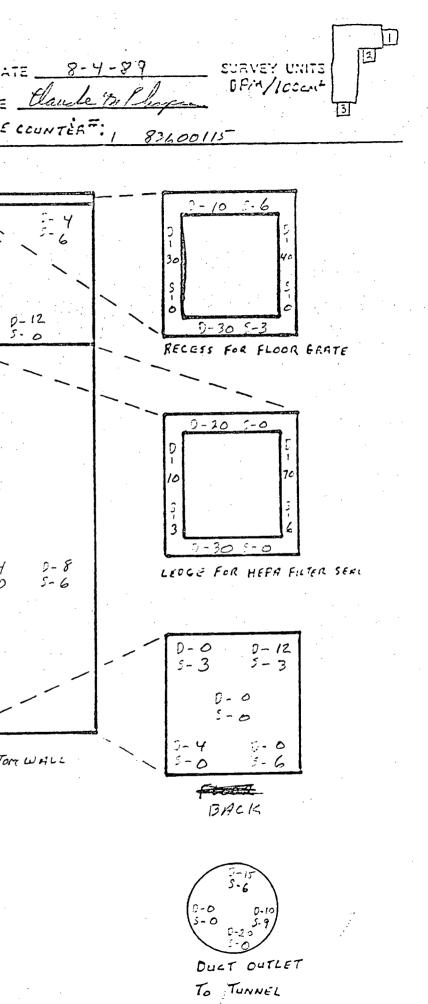




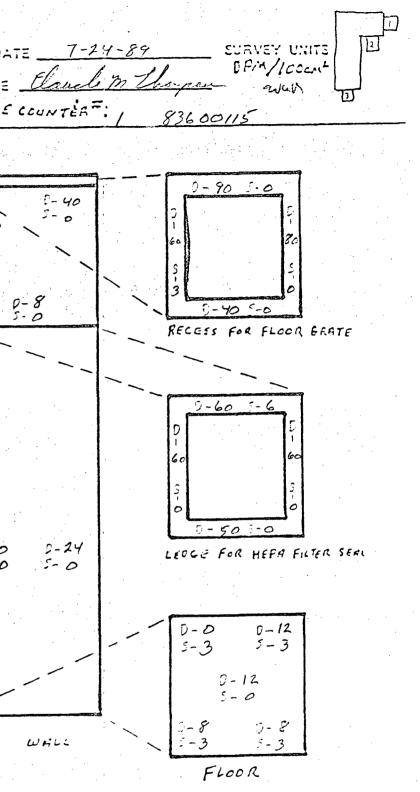
$\mathcal{N} = \frac{1}{1} \mathcal{E}$		<u>Т КООМ #121 Р17</u> Ехнаизт носе #1	TIFE CF	•	um =====>/CET. 43-	COMPLETION DATE
Ś		.67 	-			
F - FLOOR C - CEILING N - NORTH WALL S - SOUTH WALL E - EAST WALL W - WEST WALL Scurce *: //2 V INSTRU	S- SMEAR L HLUE: [1] 3 PPM	D-4 5-6 50 METER D-4 5-6		2-12 5-0 5-9 0-8 5-0	U-20 5-0 D- 5-	2-0 5-3 5-0 5-0 5-0 5-0 5-0
	292 Y #2	.46 Meter	Cuct			
		3-12 5-0 5-3 5-0		0-12 0-16 5-0 5-0	D-8 5-0	2-0 5-3 2-16 5-3
		LEFT WALL		RIGHT WALL	Το β ωι	ELL BOTTOM
			· · ·			

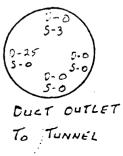


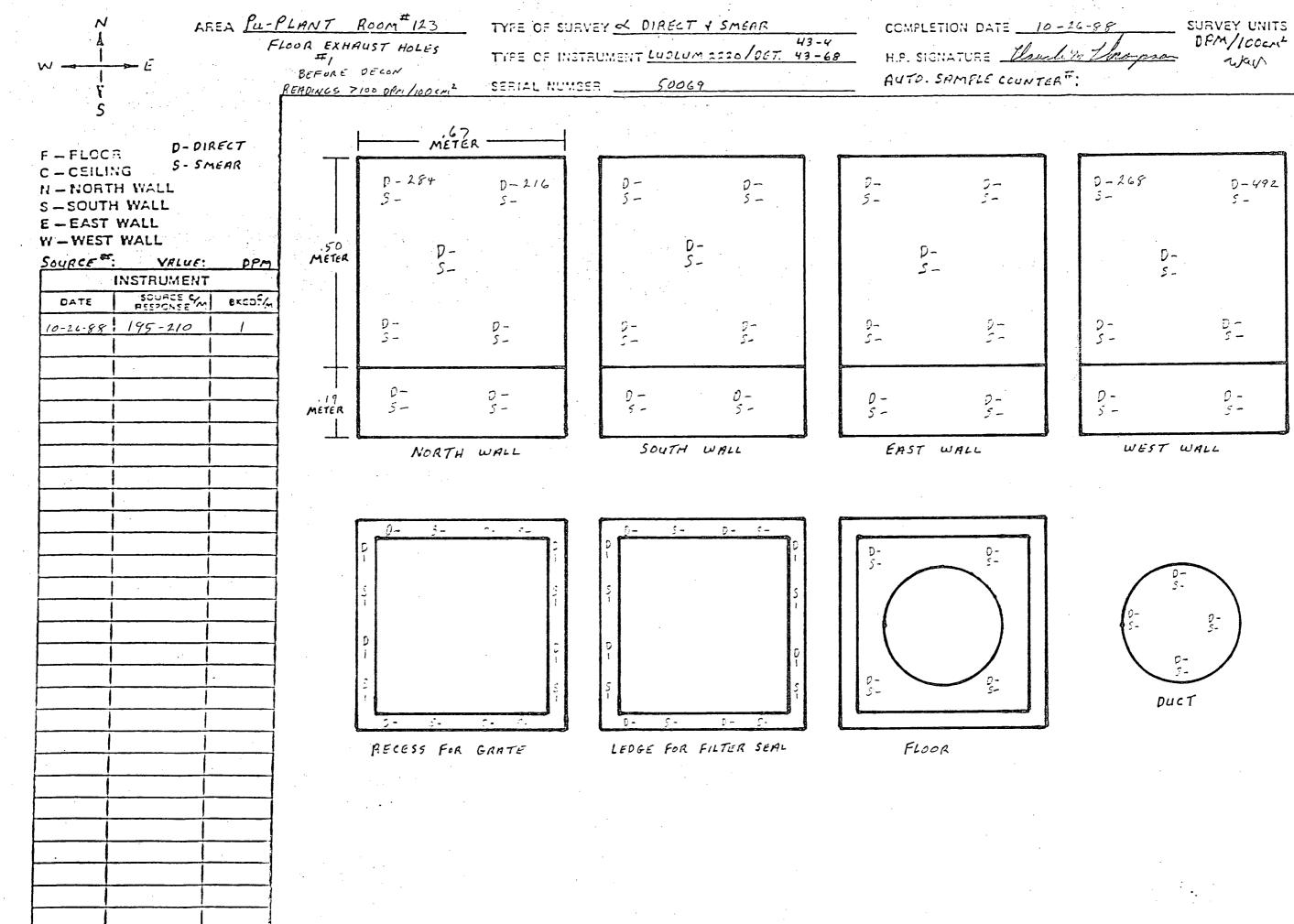
		LINT ROCH F121 PIT LOCR EXHRUST HOLE #2		CLUM 2000/067, 43-4	COMPLETION DAT H.F. SIGNATURE . AUTO. SAMPLE .
37800 58718	V - FLOOR D-DIRECT C - CEILING S- SMEAR N - NORTH WALL S - SOUTH WALL E - EAST WALL W - WEST WALL Source F: 1/2 VALUE: 1/13 OPM INSTRUMENT DATE SOURCE M EXCOMP		SERIAL NUMBER 5	<u>1318-37800</u>	



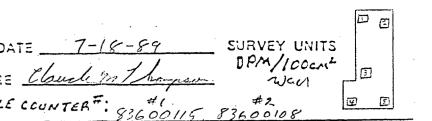
		AF.EA	<u>FU-FLANT</u> R FLOCR EXHA #3			NETAUME	TT LUCLU	<u>m ===o/</u>	43 - 4 CET. 43 - 4 -	H.F. SIC:	NON DATE
37 <i>8</i> 00 58318 11	N-HORT S-SOUTH E-EAST W-WEST Scufce : DATE 7-24-89	IG S- SMEAN H WALL H WALL WALL WALL //2 VALUE: ///3 INSTRUMENT SCUACE CM EX RESPONSE	PPM ISO METER IYC NETER	$ \begin{array}{c} $	FILTER HOUSWG	D-16 5-3 D-16	0-4		D - 16 = 0 S - 0 = 0 D - 8 = -0 D - 20 = -28 S - 3 = -3		0-00 5-0
				W AL L			ΨΫίι		WFILL		

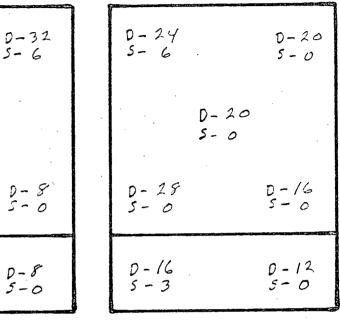


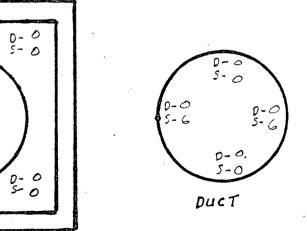




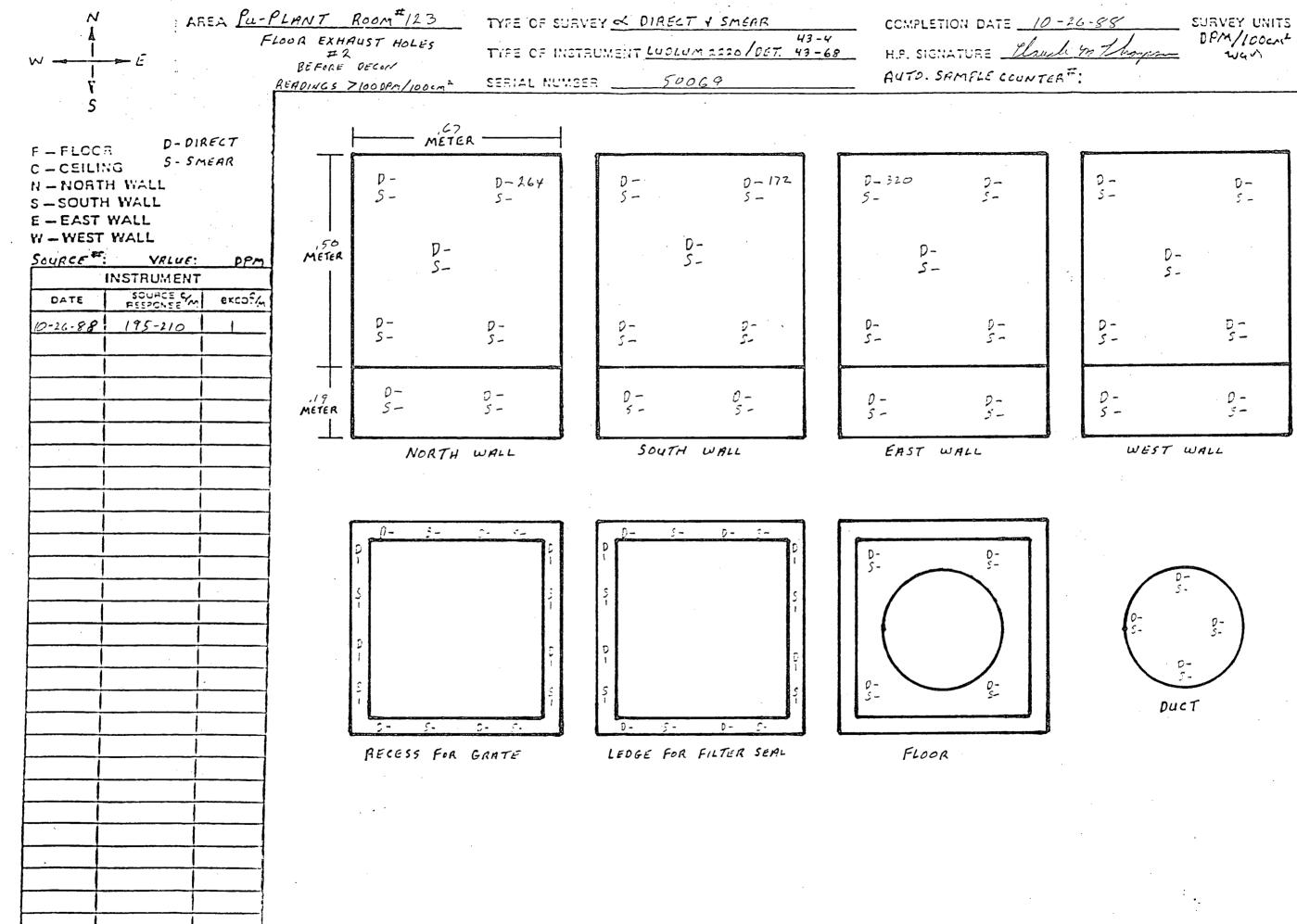
	PLANT ROOM [#] LOOR EXHAUST HOL # AFTER DECON	-		¥ SMEAR 43-4 12220/067. 43-6 37800, 58318	8	TION DATE <u>7</u> - NATURE <u>Cloude</u> SAMFLE COUNTER	millionen	SURVEY UNITS DPM/100cm ² Wall #2 83600108
S D-DIRECT		.67 METER			· · ·			
F - FLOCR C - CEILING N - NORTH WALL S - SOUTH WALL E - EAST WALL	D-20 S-9	p-12	D-24 5-3	D-20 5-3	D-64 5-3	0-32 5-6	D-24 5-6	D-20 5-0
W-WEST WALL 63(4,112 1055,1113 SOURCE 6916 VRLUE: 1078 PPM INSTRUMENT	.50 METER	D-12 S-15	D S	- 40 - 0	D- S-	20 0		- 20 - 0
DATE SOURCE C/M BKGDF/M 50064 11-3-88 285.248 2 11 261,252 2 37800 11 263,240 2	D-8 5-6	D-12 5-0	D-8 5-0	7-20 5-0	0-16 5-0	0-8° 5-0	D-28 5-0	D-16 5-0
11 11 243 243 3 58318 7-17-89 253, 263 2	19 D-4 METER 5-0		D-20 5-6	0-0 5-3	D - 4 5 - 0	D-8 5-0	D-16 5-3	0 - 12 5 - 0
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	D-36 D 90 5 3 D 5 -54	5 54 5 0 1 22 5 0 1 22 5 3	D 25 5 1 0 1 1 1 1 1 5 3 0-42 5-3	$\frac{D-42\xi-0}{25}$ $\frac{D}{25}$ D	EAST D-0 S-0 D-0 S-0 FL00	0-0 5-0 0-0 5-0	0-0 5-6	D-0 S-0 D-0 S-C D-0 S-C D-0 S-C T T T SMEHR
				DPM/1000 FIXED		H READINGS HVG. DPM/100CM MAX. DPM/100CM	,2 ,2 24,0	0 260 8 1.86







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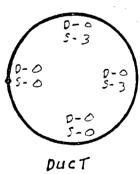
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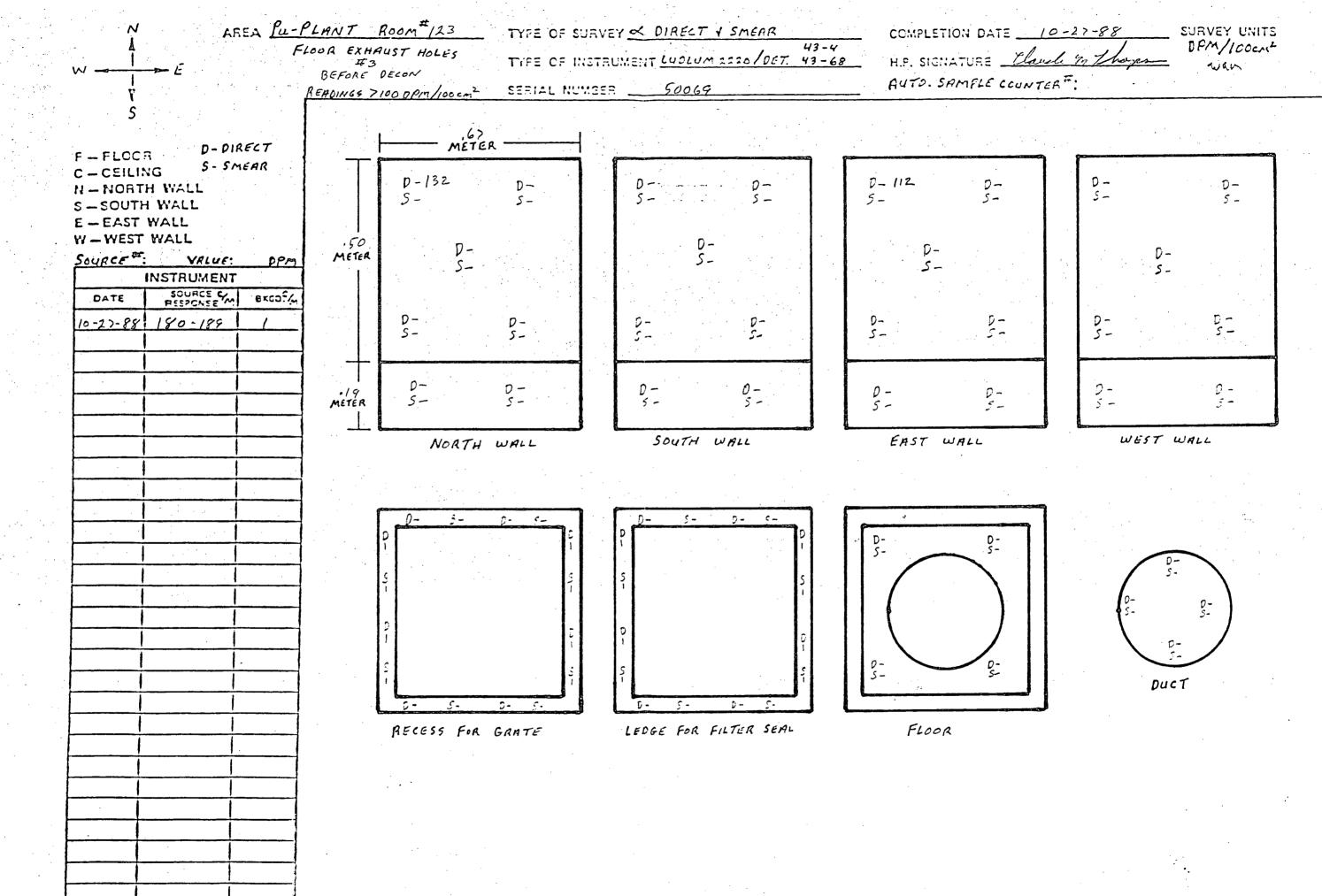
	· · · · · · · · · · · · · · · · · · ·	PLANT ROOM# 123 FLOOR EXHAUST HOLES # 2 AFTER DECON	· · · · ·	4 <u>C DIRECT Y SMEAR</u> MENT <u>LUDLUM 2220/DET.</u> 50064, 37800, 9	· .	COMPLETION DAT H.F. SIGNATURE AUTD. SAMFLE C
	S F-FLOCA D-DIRECT	.67 METER	·			
	C - CEILING S- SMEAR N - NORTH WALL S - SOUTH WALL E - EAST WALL	D-30 S-0	D-30 S-0	0-54 5-3 5-0		D-48 D- 5-0 5-
	E - EAST WALL W - WEST WALL 6968, 112 1055, 1113 Source: 6816 VALUE: 1078 PPM INSTRUMENT	.50 D-4 METER S-6		D-48 S-0		D- 30 S- 3
50064 37800	DATE SOURCE C/M BKGD:/M 11-4-88 271,281 2 11 257,240 2	D-30 S-0	D-30 S-0	0-18 D-18 5-3 5-6		0-24 S-0 S-
58318	7-18-89 276,283 1	19 D-30 METER 5-0	D - 42 5 - 0	D-24 5-3 5-0		D-42 D- 5-6 5-
	ASC#1 11-8-88 33 .3	NORTH	WALL	SOUTH WALL	(L	EAST WALL
	$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	$ \begin{array}{c} 0-30 & 5-0 \\ 0 \\ 1 \\ 18 \\ 5 \\ 0 \\ 0 \\ 1 \\ 6 \\ 5 \\ 1 \end{array} $	<u> 5-0 5-3</u> 1 0 5 1 3 5	D-425-3 D-705-3 P 70 5 0 0 1 56 5	D - 52 - 53 - 3 - 70 - 51 - 70 - 51	$ \begin{array}{c} $
		AECESS FOR	3-245-0 GRATE	D-56 5-0 D-425-9 LEDGE FOR FILTER SEAL		FLOOR
		• •				
						• •

D Ξ SURVEY UNITS DPM/100cm2 7-18-89 TE. CCUNTER # : 83600115 #2 3 Ø 0-66 5-6)-30 -0 D-30 5-3 D-30 S-0

D-30 S-3 D-18 5-0 0-0)- 24 5- 3 D - 18 5 - 0 0-30 5-3

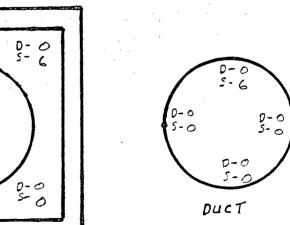






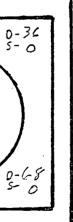
		OLANT ROOM# 123 LOOR EXHAUST HOLES # 3 AFTEN DECON	TYPE OF INSTAL	Y & DIRELT & SMEAR MENT LUDLUM 2220/CET. 4 50064, 37800,58	
	S D-DIRECT	6 MET	7 ER		
	F-FLOCR C-CEILING N-NORTH WALL S-SOUTH WALL E-EAST WALL	D - 24 S - 3	D-28 5-3	$ \begin{array}{cccc} 0 - 20 & 0 - 0 \\ 5 - 0 & 5 - 0 \end{array} $	D-32 D- 5-3 5-
	W-WEST WALL Source: 6849, 112 1055, 113 Source: 6876 VALUE: 1079 PPM INSTRUMENT		68	D-12 S-3	D-36 S-0
50064 11	DATE SOURCE CM BKCD: M HESPCNSE M BKCD: M 11-3-88 285 248 2 11 261 252 2	D-12 S-3	D-8 S-0	0-8 0-24 5-0 5-0	D-32 D- S-3 S-
37800 11 58318	11 263 240 2 1243 243 3 7-18-89 276 283 1	19 METER 5-0	0-24 5-0	D-28 D-24 5-0 5-0	0-60 D- 5-3 5-
	ASC #1	NORTH	H WALL	SOUTH WALL	EAST WALL
	11-8-88 33 3 456#2 11-8-88 26 0 11-9-88 34 .1 7-18-89 29 .2 1 1 1 1 1 1 1 1 1 1 1 1 1	P-12 5-3 P 48 5 0 D 1 34 5 0 D 1 34 5 0 D 1 34 5 0 D 1 34 5 0 D 1 34 5 0 D 1 34 5 5 7 8 8 8 8 8 8 8 8 8 8 8 8 8	2-0 -0 30 31 0 12 5- 0 12 5- 0 12 5- 0 12 5- 0 12 5- 0 12 5- 0 12 5- 0 5- 5- 0 5- 5- 0 5- 5- 0 5- 5- 5- 5- 5- 0 5- 5- 0 5- 5- 5- 5- 5- 5- 5- 5- 5- 5-	D-42 5-0 D-285-6 P 42 5 3 D 42 5 7 0-845-0 D-705-0 LEDGE FOR FILTER SEAL	FLOOR
					· · · · ·

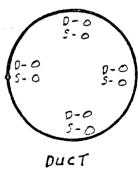
ً 7-18-89 SURVEY UNITS DPM//COCAL Wall TE 520 CCUNTER : #1. #2 83600115 83600108 Ø 5 0-16 5-3 D-20 5-3 - 36 D-12 5-9 D-20 5-0)-40 [-0 D - 2YS = 0D-32 5-3 0-4 - 44 - 3 5-6

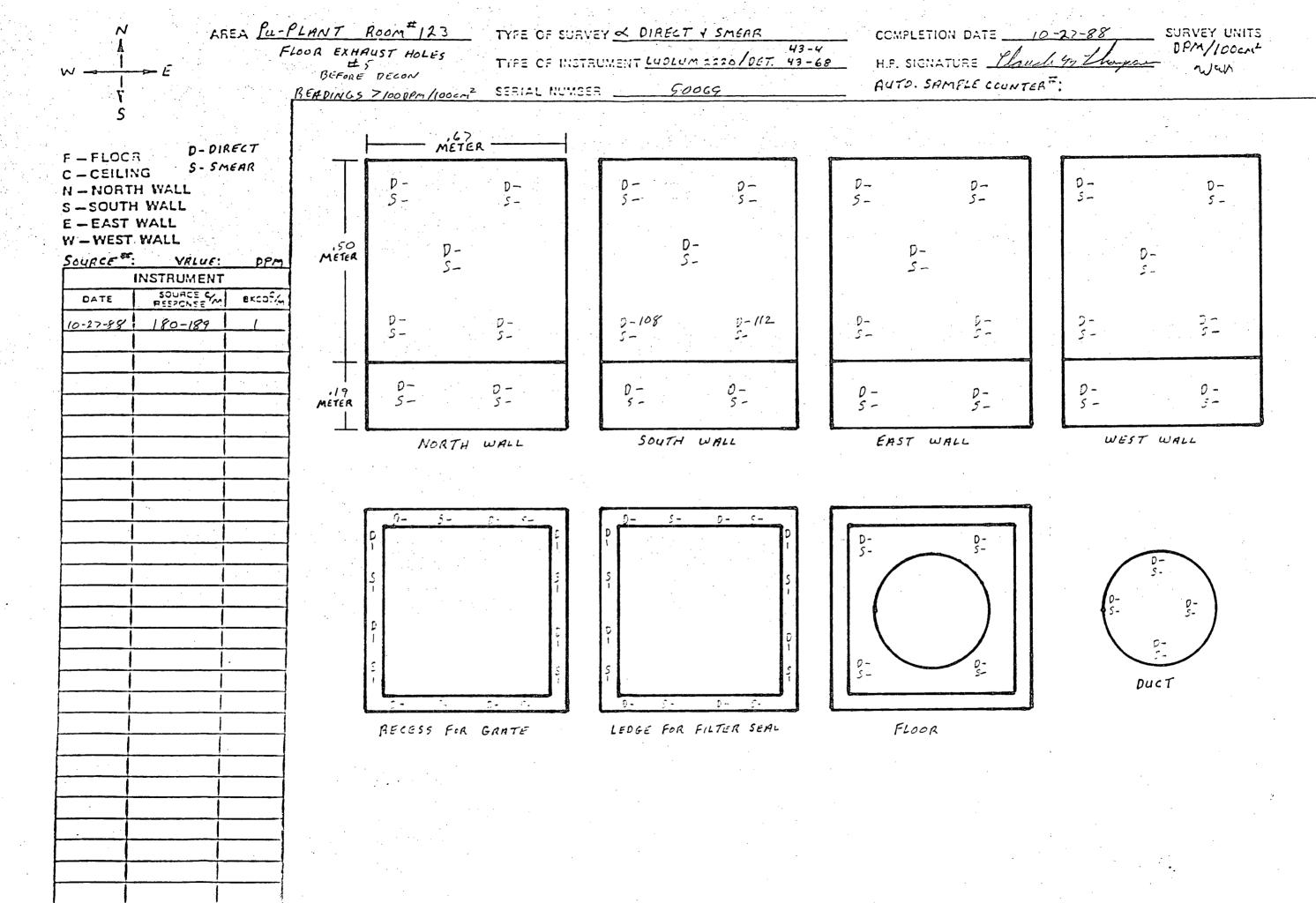


		PLANT ROOM# 123 FLOOR EXHAUST HOLES # 4	TYPE OF SURVEY & DIRECT & SMEAR 43-4 TYPE OF INSTRUMENT LUDIUM 2220/DET. 43-68 SERIAL NUMBER 50064, 37800, 58318 AUTO. SAMPLE			
	S D-DIRECT	.67 METER	ι			
	F - FLOCR C - CEILING N - NORTH WALL S - SOUTH WALL E - EAST WALL	D - 0 S - 3	D-12 S-0 D-4 S-6	D-4 5-3	D-8 D- 5-3 5-	
	W-WEST WALL Source: 68/6 VALUE: 1015 PPM INSTRUMENT DATE SOURCE CM BKCD: M	.50 METER D-8 S-0		D-12 S-3	D-4 5-0	
50064 '1 37800		D- O 5- 9	0-8 5-6 5-6	9-0 5-3	D-8 S-3 	
,, 58318	11 243243 3 7-18-89 276 283 1	19 D-16 METER 5-0	D-4 5-3 5-3	4 0-0 5-3	D-12 D- 5-0 5-	
	11-8-88 33 3	NORTH	WALL SOL	ITH WALL	EAST WALL	
	45c [#] 2 11-8-88 26 0 11-9-88 34 .1 7-18-89 29 .2	$ \begin{array}{c} $	<u> 2-20 -0 5 1 12 5 5 5 1 3 0 3 1 1 2 7 1 1 2 7 1 </u>	<u>5-3 0-70 5-3</u> D 1 28 5 1 0 D 1	D-8 5-0 5-	
		BECESS FOR	2-12 5.0 GRATE LEDGE	S-O D-985-3 FOR FILTER SEAL	0-48 5-3 FLOOR	
					· · · · · · · · · · · · · · · · · · ·	

⊡ SURVEY UNITS DPM/100cm² #2 83600108 7-18-89 TE CCUNTER : 83600115 Ø 5 0-24 5-3 D-12 5-6 - 16 . D-0 S-3)-8 -3 D-0 5-3 0-8 5-6 0 - 0 5 - 0 D-0 5-0)-40 5-0







	$\frac{N}{1} = E$	PU-PLANT ROOM# 123 FLOOR EXHAUST HOLES # 5	TIFE OF INSTAU	MENT LUDIUM 2220/DET. 4	
	ŗ	AFTER DECON	SERIAL NUMBER	50064, 37800, 58	318
	S F-FLOCA D-DIRECT	METO			
	C - CEILING S- SMEAR N - NORTH WALL S - SOUTH WALL	p-12 S-0	D-24 S-0	0-16 0-8 5-6 5-0	D-16 D- 5-3 S-
•	E - EAST WALL W-WEST WALL 6868, 112 1055, 1113 Source 6876 VALUE: 1075 P	PM METER D- S-		D-0 S-0	D-16 S-9
	INSTRUMENT DATE SOURCE CA BKG				3-7
50064	11-3-88 285,248 2	p-20 S-0	D-40 S-0	0-8 0-16 5-0 5-0	0-8 0- 5-0 5-
" 37800	··· 261,252 2 ·· 263,240 2			, , , , , , , , , , , , , , , , , , , ,	
и 58318	" 243243 3 7-18-89 276283 1	19 D-4 METER 5-0	D-16 5-3	D-8 0-12 5-0 5-0	0-0 D- 5-3 5-
		NORTH	WALL	SOUTH WALL	EAST WALL
	A5c#, 11-8-88 33 .3			•.	
	H5c#2	<u><u><u>)</u>-48:-3</u></u>	2-30 -0	<u>p-70 :-3 p-70:-0</u>	[p
	11-8-88 26 0 11-7-88 34 .1	24	1 12 3	1 84 5 5	D-0 5-3
•	7-18-89 29 .2	6	10		
		18	1 12 72	1 1 1 2 2 3 2 3 2	0-0 5-0 5-0
		3	0-12 5-0	D-565-0 D-705-3	5-0
		RECESS FOR	GRATE	LEDGE FOR FILTER SEAL	FLOOR
					· · ·
.					

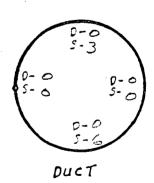
ত্র SURVEY UNITS DPM/100cm² augus [7-18-89 ATE CCUNTER #: #1 #2 83600115,83600108 Ø \Box

0-4 5-3 D-0 5-0)-10 5-3 . D-4 5-3 0-8 5-3 0-8 5-0 0-0 5-3)-20 5-0 D-12 5-0 0-12 5-6 .

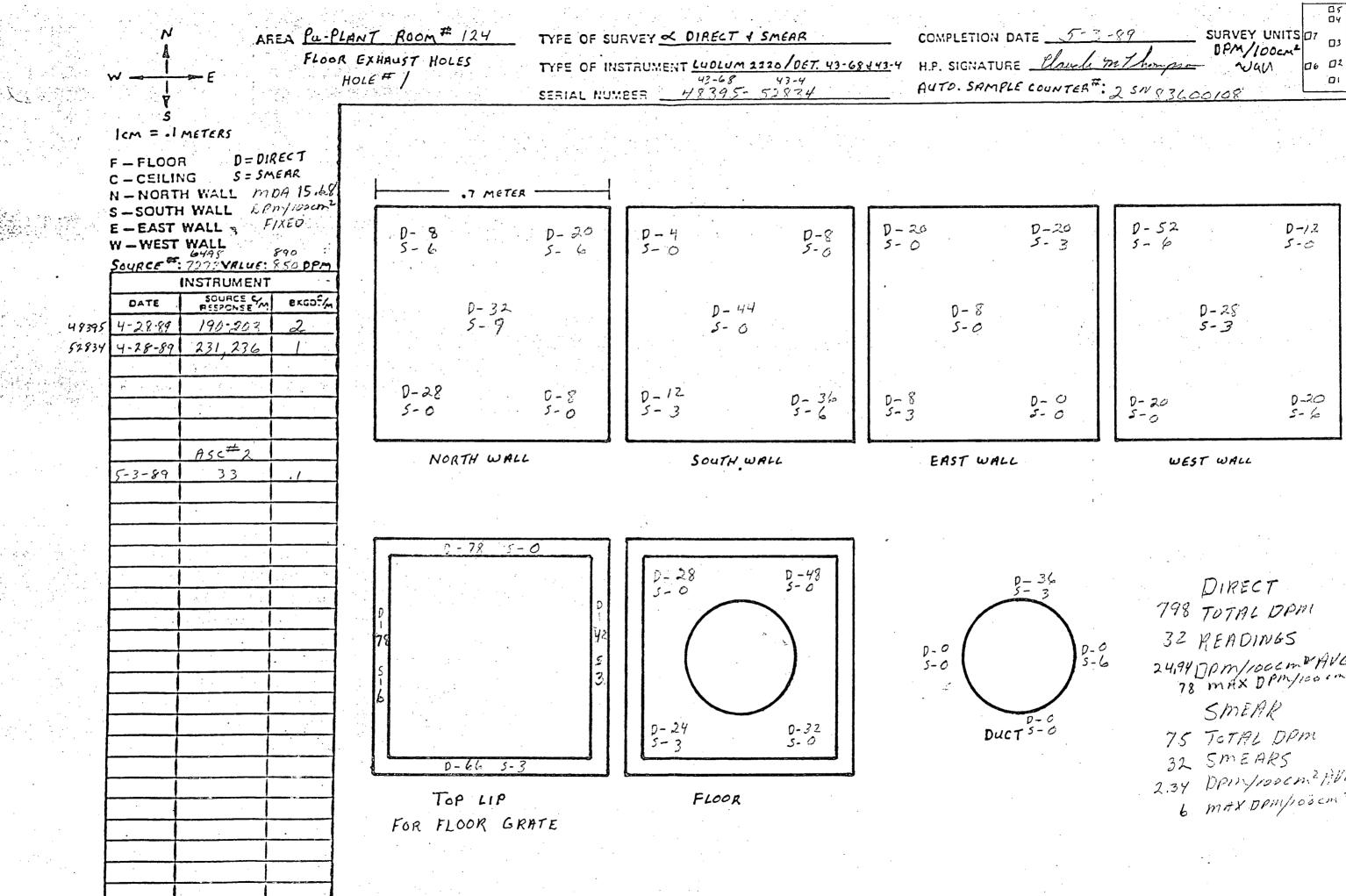
WEST WALL



4.

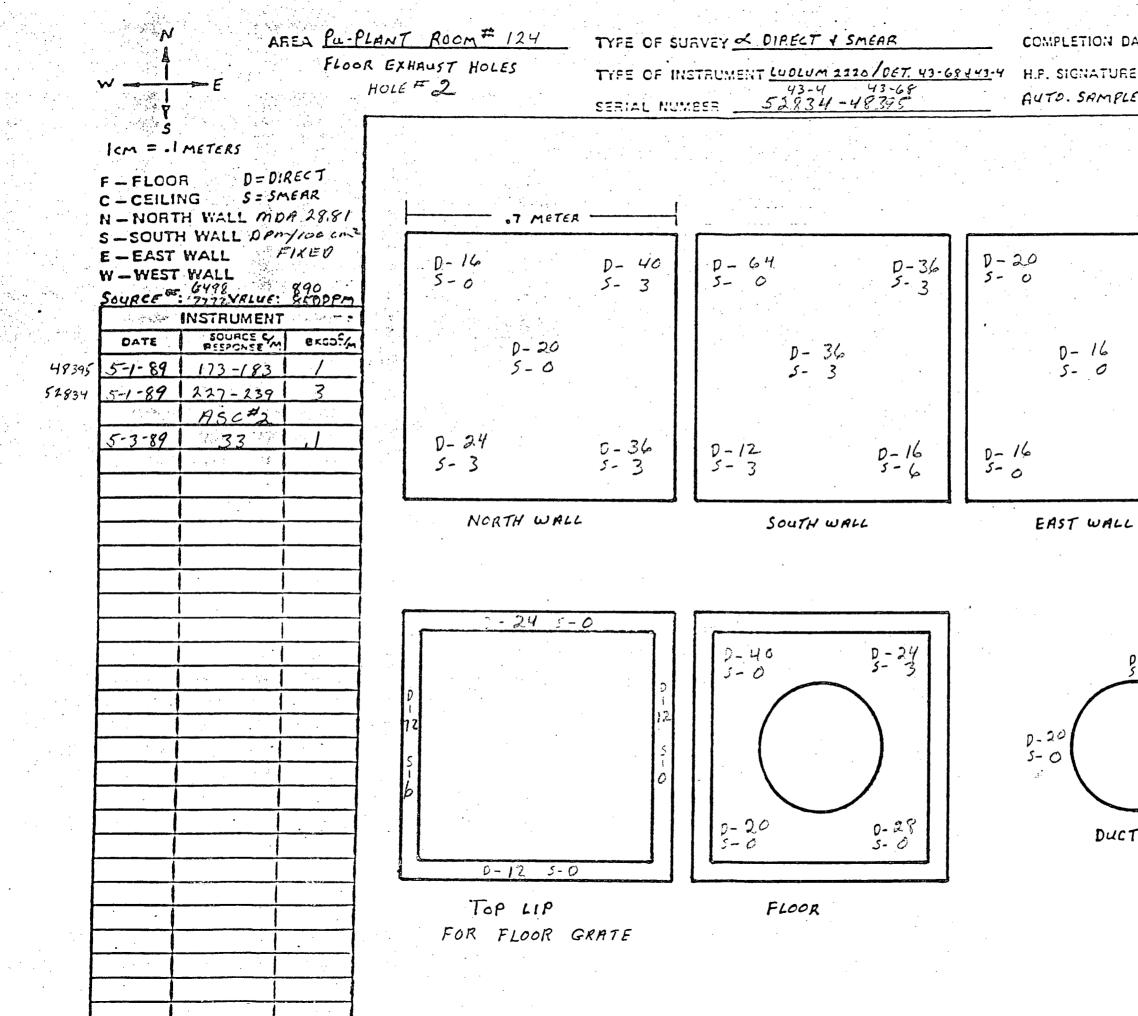


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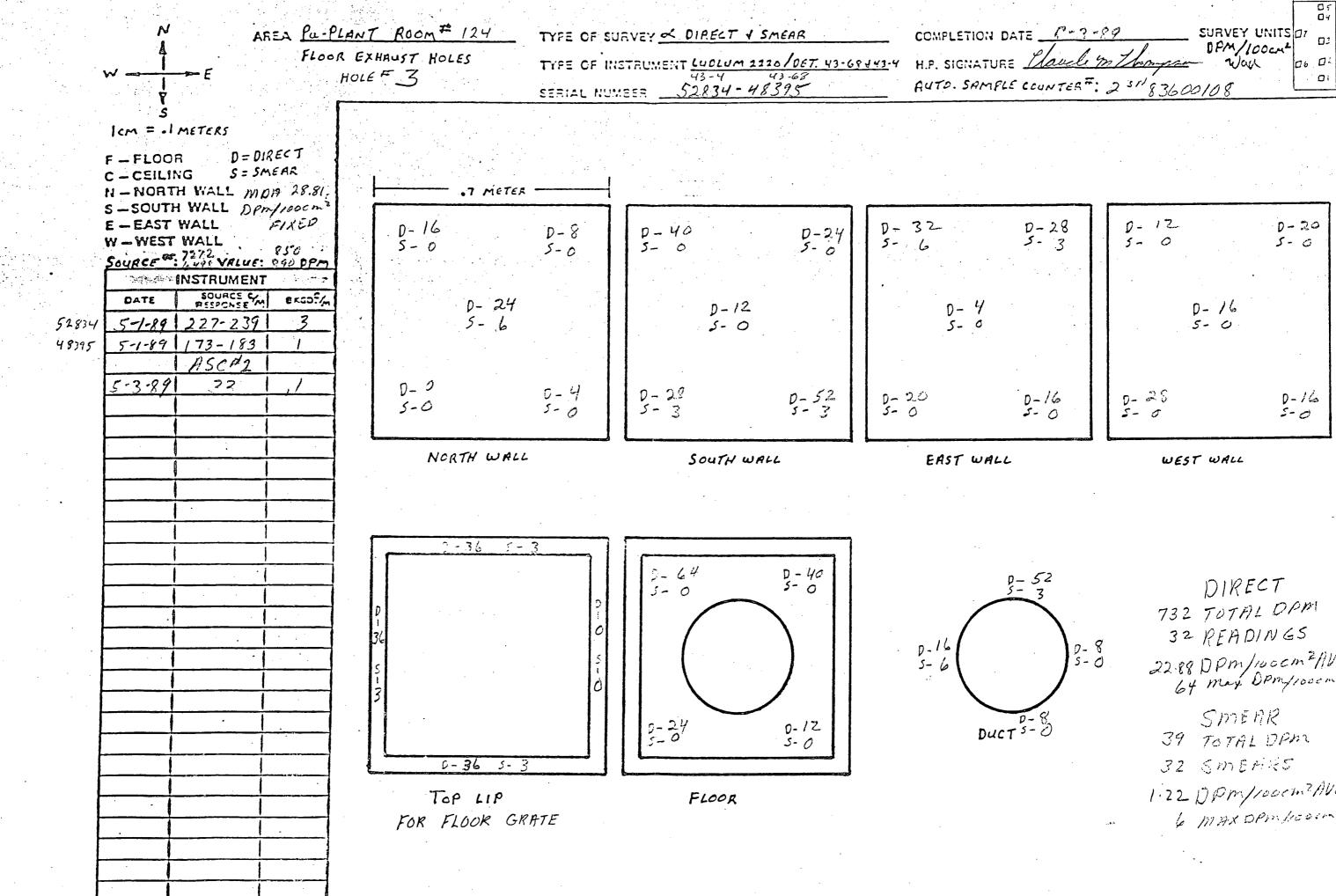
A Print of the Pri

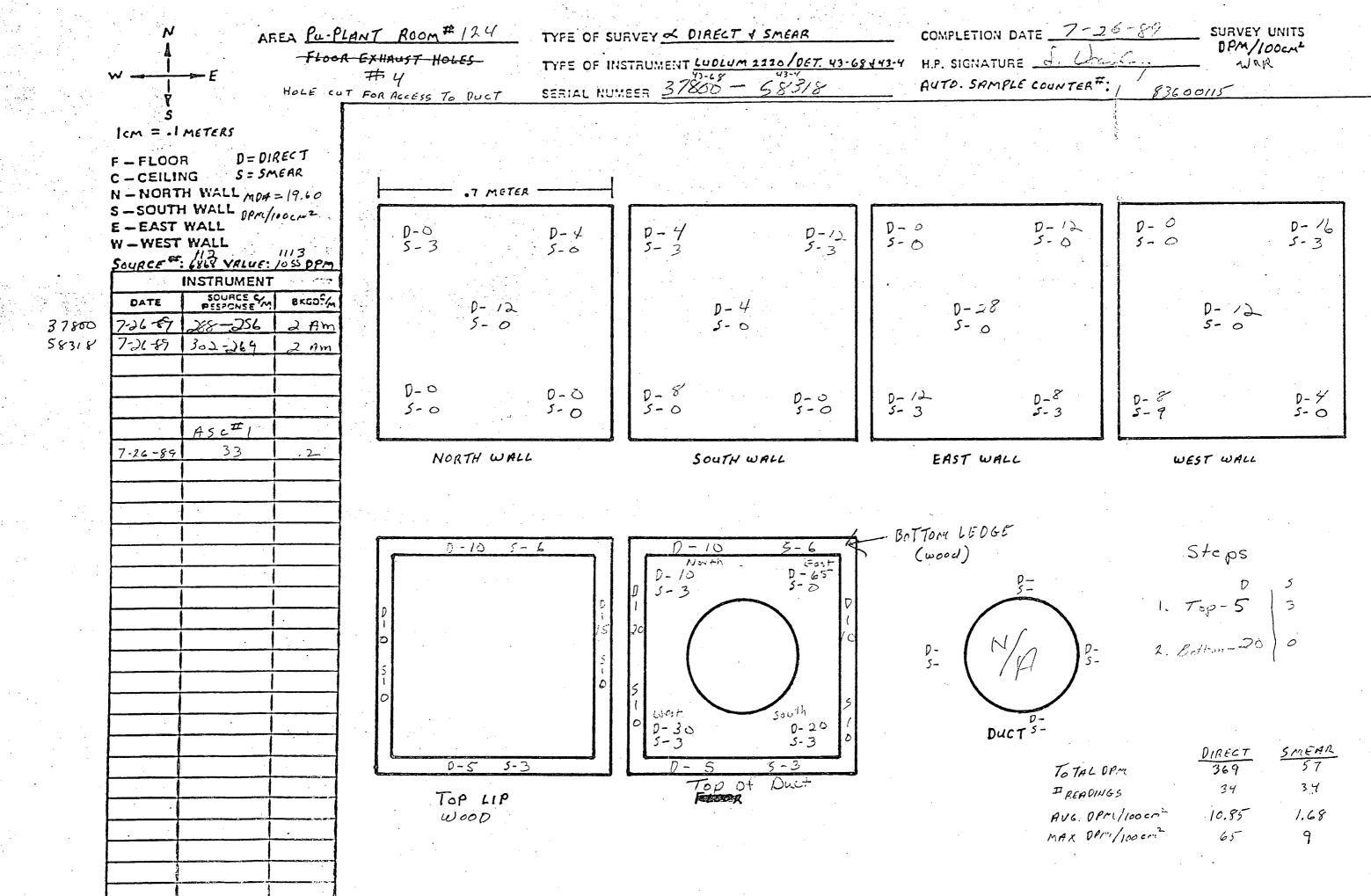
24,94 DPM/100 cm PAVG 78 MAX DPM/100 cm 3 2.34 ppin/roocm2 AVG 6 max DPM/103 cm =

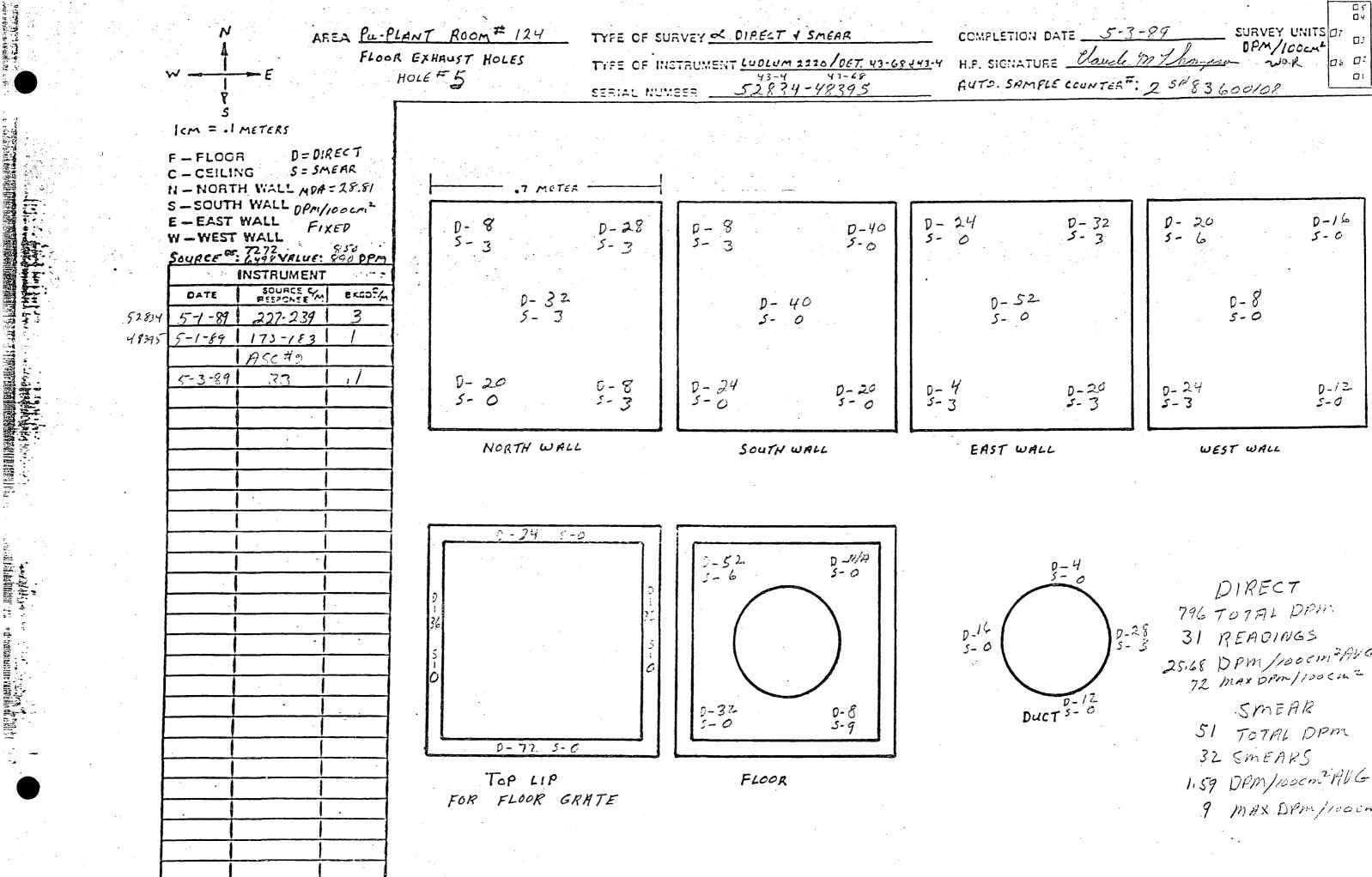


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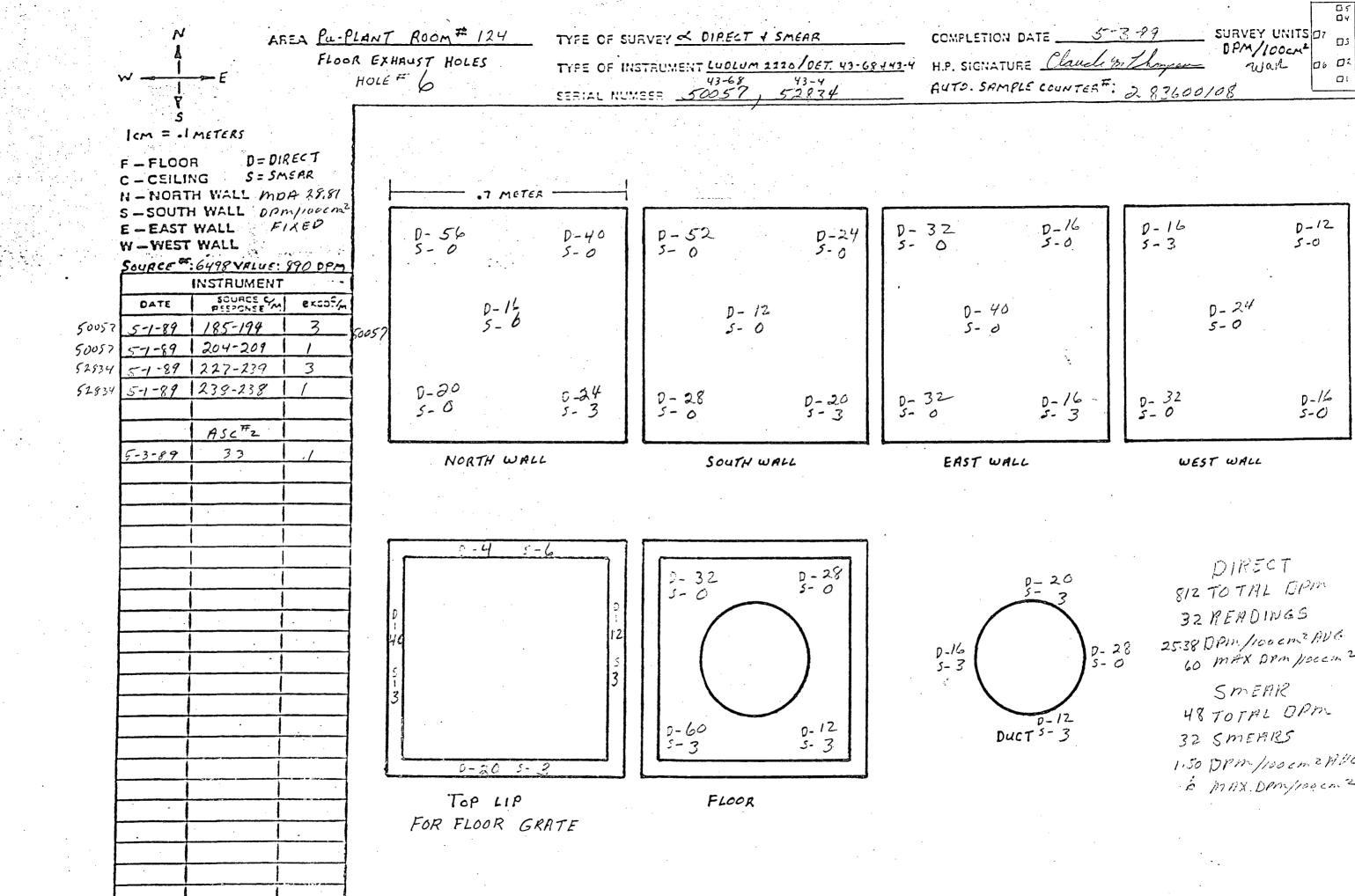
SURVEY UNITS DT DPM/100cm2 COMPLETION DATE ______ ٤Π H.F. SIGNATURE Clauche m thomas 06 0: avan AUTO. SAMPLE COUNTER : 2 SN 23600108 01 0-28 D-16 D-16 5-6 5-0 5- 2 0-52 5- 3. 0-16 5-0 D-12-5-0 D-32 5-0



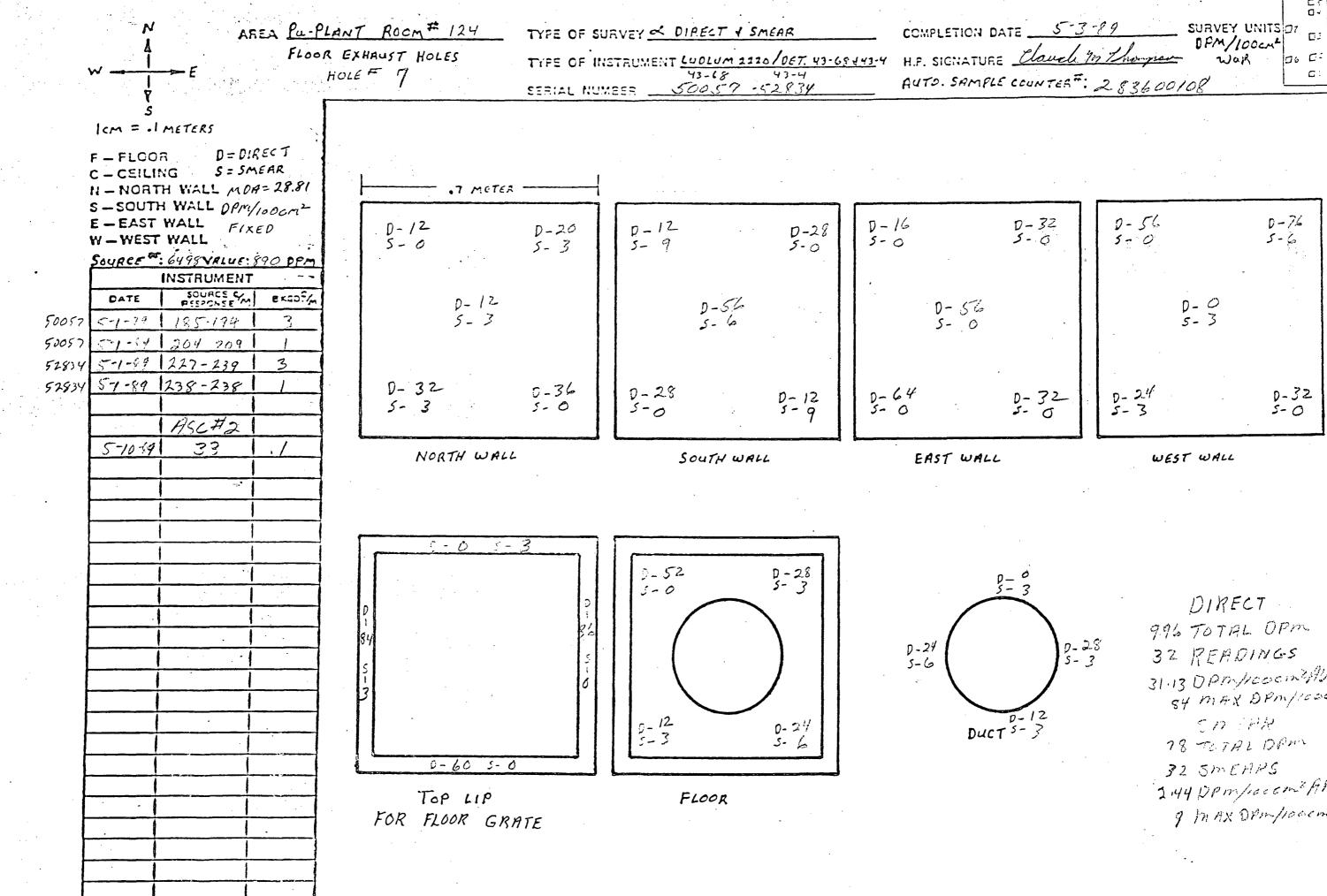




A THE PARTY AND A THE PARTY AND A

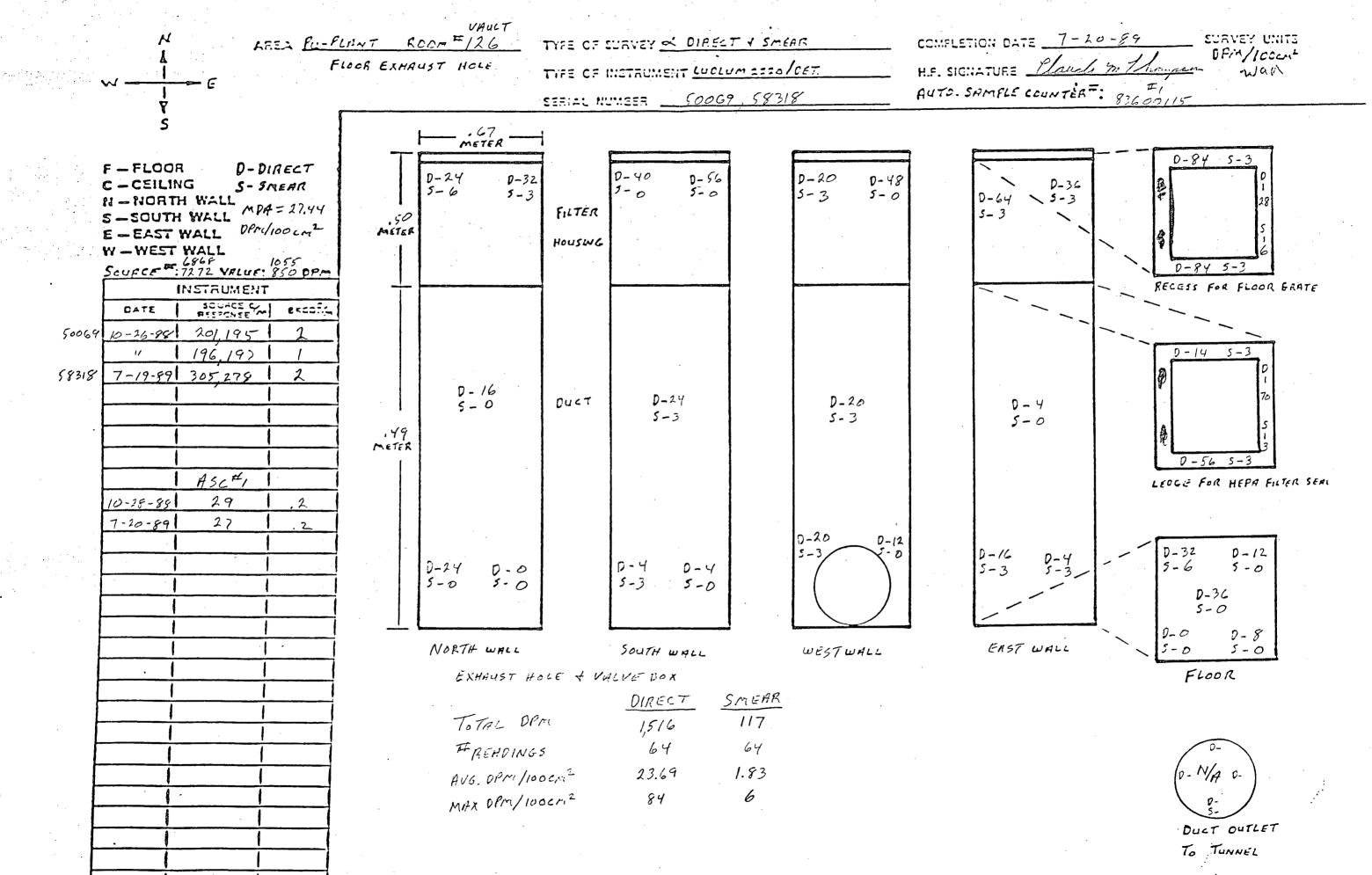


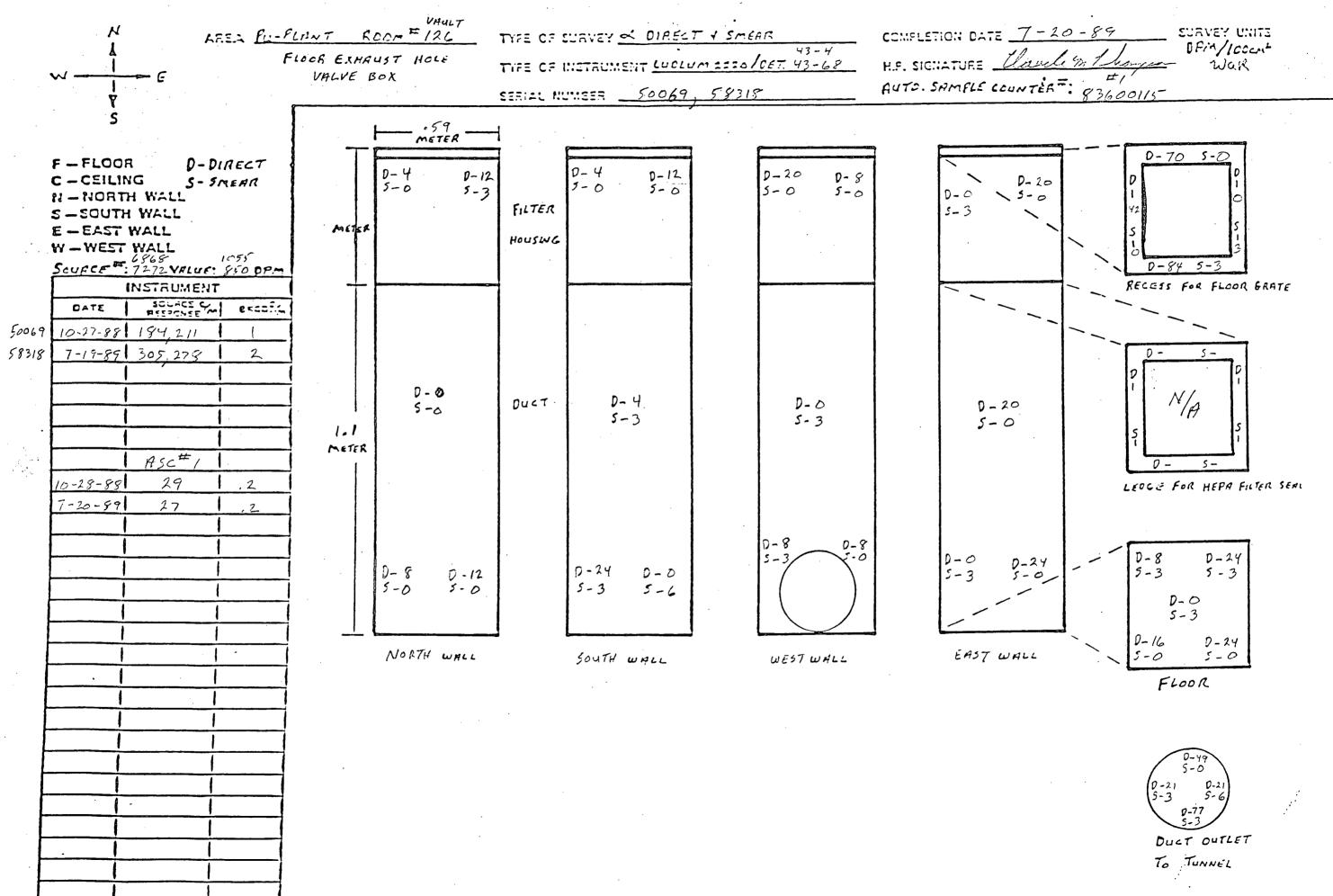
06 02



06 C:

31.13 DPM/reacin2/11/8 SY MAX DPM/100000 244 ppm/cocone AVG 9 MAX DPm/1000m2





Pulab = East PLANT PULAB = East AREA Floor Extand PLANT \underline{PU} AREA <u>FLOOR East</u> SURVEYED BY <u>AREA FLOOR Exhourst</u> ASC 0 <u>2</u> <u>836 00/08</u> SURVEYED BY <u>AREA FLOOR Exhourst</u> CTD. BY <u>4 Black</u> INST. <u>LUNLUM 2220</u> <u>+ 158309</u> DET. <u>43-44</u> SOURCE CK <u>258/256</u> BKG. <u>2</u> BKG. <u>12</u> 1115T. 1.1101.11H 2220 / + 158309 DET. 4 SOURCE CK 258/291- BKG. 2-DATE: 7-12-SM SOURCE # SMALUE PATE: 7-18-89 Source # 6498 VALUE: 8900PM DATE: 7-19-89 · READINGS IN DPM/100 cm² • DIRECT SAMPLE & OR DESCRIPTION SAMPLE & OR DESCRIPTION 24" DIA-Срн DPH SHEAR 132 An Port EastEnde Lin ENTRY of North ENd of Exhaust duct 18 TOP 3 0 Botton 10 60 0 Eart 72 12 3 110 AN 12 2. Viert 6 2M Estin 24 2 4 East 66 11 3 FA West 48 .4 3 Air Port East Side 3M TOP 49 130 4 \bigcirc SURVEYS ABOUND 14M Tor Bottom 12 2 3 East 24 Ч 3 West 36 6 0 -131 Air Part East Side 3.511 TEP 4. 24 3 Botto Kattige 18 3 \circ East 4 24 0 West 42 7 0 4M Bottom 18 3 O East 48 8 0 West 0 0 0 24 LAN Battion 4. 3 48 Enel 8 D 74 1. jpe-6 6 . - 1 S. Finhy 4 3 • Fred 24 Y 3 • Most 42 7 Ô 10M Onttom 3 26 6 24 East 4 0 54 West 9 0 3 12M Enting 66 11 Fact -9 54 0 Viest 1.10 6 11 11 M Rotton \sim \mathcal{D} .. 0 Eact 9 511 \cap يلغه وجروج وكالم 21-0

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1	1 40	c ø		
13-4	1	D. BY	·····	
		URCE CK. I		
. 89000	BK	C		• .
E: MODA		TE:	2	
• •	READING	S IN DPH/1	00 cm ⁻	
•		ECT	011242	•
<u></u>	Срн	DPH	SHEAR	
7.0	39	234	3	
Bottona	18	108	0	_
10[+	0	0	3	_
Fill		6	3	_
and the safed	7	42 1	3	
	1	6	9	
Nest	4	24 1	D	
d		,		
				_
P (234)	- 5.	-30		
		30	tre	
	.4	24	1	
	6.	36		_
or: (10 8)	1.6	-36		
	8	48		_
	6	36		
	6	36		
	TOTALS	1878	75	
	TREADINGS	48	40	
	AV 6 DPM	48 39.13 234	75 40 1.57	
	Migder DPM	234	9	
	MOR	28.51		
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Pula Pula	b Middle	,			• • •	· · ·	PLANT <u>PU</u>	·PULAD	West.			
LANT PU AREA PULA URVEYED BY 1 245/121	st auct	۸S	c / <u>2 - 9</u>	83600108			PLANT YU Int	AREA EXAQUET	duct	Δ.	sc /	
IRVEYED BY 14 Helster	·, ··· ,	СТ	D. BY	1 Black	•		SURVEYED BY M. HE	15/31	,	C	TD. BY	
IST. 1.111111 2220 + 13309 DURCE CK 214/257 BKG. 3	DET. <u>43-4</u>	50	URCE CK. J	VC. 35	•		SURVEYED BY M 220	1 + 58309	DET. <u>43-4</u>	S	DURCE CK. A	.vc.
DURCE CK214/257 BKG. 3		BK	C2				SOURCE CK 214/257	bkg. <u>3</u>		B	KG	
ATE: 7-17-89 Source	E. CAR VALUE: 8900Pr	DA.	TE: 7-	19-89			DATE: 7-19-89	SOURCE	UPB VALUE: 8900PM	0	ATE:	· · · · · · · · · · · · · · · · · · ·
			S IN DPH/1				263/214	4	••	READIN	S IN DPH/1	00 cm ²
	•	• DIR	ECT			· •	· · · · · · · · · · · · · · · · · · ·		•		RECT	
SAMPLE O OR DESCRIPTION	20" DIA	Срн	DPH	SHEAR		·•	SAMPLE O OR	DESCRIPTION	24" DIA.	Срн	DPH	SHEAR
orth ENtry Middle Exha	of duct TAP	3	18	0			North Entry West	Exhaust di		12	72	3
······	Bottom		36	9		-	/ married v most		Bottom	9	54	
· · · · · · · · · · · · · · · · · · ·	En:+	3	18	6		•			I and	<u> </u>	84	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
		7.	42	3					1. mi-1-	7	42	
	2M Prit-M	7	42					· · · · · · · · · · · · · · · · · · ·	2M Bothm	/ 	L.	
	East	/	18	0					Enst	<u> </u>	66	3
·	West	\sim	<u> </u>	6					West		5:1	3
	HM Botton	10	-60	0					HM Bottom		30	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	East	10	12						East			
		3	18		 	-			West-	1/	42	
· · · · · · · · · · · · · · · · · · ·	6M Bettim		30	0					6M Pattern	16	96	<u> </u>
		<u> </u>	<u>-30</u> 24							16	72	
· · · · · · · · · · · · · · · · · · ·	East	<u> </u>		3		-			East		66	0
	U.E.	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12	3					West-	20.	120	0
	8M Bottem		72	0				·····	8m Battam		114	0
	East	the second s	0	3					East	4	24	3
	West ICM Boltom		24	0				F.ICI.	Wost To		30	3
· · · · · · · · · · · · · · · · · · ·	ICM Lostra East		30	6	·		135 AIR Part	East-She			<u>lok</u> 84	6
	Lie of	2	18	0				· · · · · · · · · · · · · · · · · · ·	Battan Left	14	42	- 0
33 Air Fart West Sid		. 0	0		·			· · · · · · · · · · · · · · · · · · ·	Kiaht		30	
	Butta M	1	30	<u> </u>	· ·				10/A Botto A	10	60	<u> </u>
	Left	4	2.	<u>0</u>			<u> </u>	· · · · · · · · · · · · · · · · · · ·	East	9	54	/
	8.7.4	, ,		0		÷	······································		West		lala l	3
•	IZM ENDIAN	8	12	3	<u> </u>		136 Air Part	East Side 1		/	36	3
	East	7	uy	0	 .				Bottom	9	54	0
	West	The local division in	74						Left	10	60	6
		EN						******	Right	<u></u>	30	0
					<u> </u>				12M Bottom	13	78	3
		TOTAL	660	57					East	 	84	0
		# READINGS		26					West-		48	0
		AUG DAM		2.19		• .	· · · · · · · · · · · · · · · · · · ·		14M Rottom	<i>0</i>	1 61.	 D
· · ·		MAX DPM		9				. ·	East	12	72	<i>0</i> · · ·
		MDA	28.81	(1. Joch	7	42	
	•	LIVIT	<u>~9.31</u>				}	11	1 Page	/	<u>,</u>	

LANT P., AREA Fulab, West, IRVEYED BY N HELLES		c /		÷	- - - -	PLANT Pue AI	REA H.P. ABER	2 EX. PULT		.sc 👔 /	83600115
IRVEYED BY N Hette I						SURVEYED BY A yet. 1	In the second		C C	TD. BY	1 Black
INVEYED BY N HEAR A IST. <u>LUDLUH 2220</u> $= 58309$ DET. <u>43-4</u> DURCE CK <u>214/257</u> BKG. <u>3</u> = 58309 DET. <u>43-4</u>	so		VC	-	-	INST. <u>1.001.04</u> 220 253-252 SOURCE CK <u>249-231</u>	1158309	DET. 43-4	S	OURCE CK.	83600115 1 Black AVC. 33
DURCE CK $2/4/257$ BKG. 3	BE	C		•	- 1 -	253-252 SOURCE CK 249-231	BKG, 2	· · · · · · · · · · · · · · · · · · ·	В	KG. 12	
NTE: 7-19-89 Source # 6498 VALUE: 890 OPA		176:				Pr.T.F : 7-20-89	Source #:6	 499 VALUE • 890 0Ar	, P		-26-89
		S IN DPH/1								CS IN DPH.	~
		ECT						•		·	
SAMPLE Ø OR DESCRIPTION	Срн	DPH	SHEAR	· · · · ·		SNIPLE / OR DI	ESCRIPTION	16" DIA.	Срн	RECT DPH	SHEAR
Air Port East Side HM TOP	4	24	0		M 644 - 116 197 19 - 1	H.P. AREA EX			1	16	0
138 Anton	16	96	6		voite manual de la constante de			BOTTOM	2	12	0
1087	11	66	6	· ·				EHST	1	6	3
Raht	. 8.	48	6			L	·	WEST	1	16	0
J	EN	2	· · · · · · · · · · · · · · · · · · ·					In BOTTOM	10	60	6
								EAST	4	1 24	6
	n in the second se	No. 199				· · · · · · · · · · ·		WEST	22	132	6
SURVEYS ABOUND GrewesT & BA BOTTOM		18			a na						
(120) 6 M WEST		18.			-	SURVEY AROUND	In WEST	(132)	6	36	-
	5	30							4	24	
	6	36						· · · · · · · · · · · · · · · · · · ·	<u> </u>	24	
	9	54							/	1_6	
	10	60	· · ·								
	2	12					n	5			
	Ч.	24			Long append	TOTAL DPM	DIRECT 306	SMEAR 21	·		
		· · ·		· · · ·	4 2	TE READINGS	7	7			
	*****			·		AVG. DPM/100 cm2	• 43,71	3			1
					•	MAX. PPri/100cm2	. 132	6			
	. •					MDA	23.52	·			
				·		3					
									 		· · · · · ·
	TATALS	2490	81						<u> </u>		
·	READINGS	45	37				•				
	AUG OPM		2.19		-			•		<u> </u>	
	MAX DAM	1	6				•		· · ·		1
	MDA	33.26			۲ -			·····	!		
									<u> </u>		
				<u> </u>				·	! 		
					1980 and 1	· · ·			1	- <u> </u>	
			•••		• At 1 2 101				<u> </u>		
					•				; }		

0		• •	1					Ou	··· /
PLANT <u>Pu</u> A		<u>uct</u>			3600115		•	PLANT PU	AREA 121. 14C
SURVEYED BY A. Hete, C	in the second				1 Clack	•		SURVEYED BY IL,	
INST. 1.101.104 2220 253-252 SOURCE CK 249-231	198309 DEI.	43-4	1		AVC. <u>33</u>				* 52834 DET.
SOURCE CK 249-231	BKG. 2		1	:C. <u>.2</u>					8/ BKG. 3(AM)
<u> Pr. T.F : 7-20-89</u>	50URCE -: 1498VA			ATE: 7				PATE: 7-24-	89 SOURCE #: 1/2 VAL
		•		S IN DPH/	100 cm	×	•		
SAMPLE / OR D	DESCRIPTION 16" D	•	DIT CPH	DPH	SHEAR		,	CALIDY TO B. C	
1 · · · ·		<u>16.</u>			1		· -		R DESCRIPTION 30" DI
ROOM, 116 FLOOR		- 01						RM 121 WE	
•	<u> </u>	ToP	<u> </u>	24	<u> </u>		•	LEADING TOT	FUNNEL OME
		Bottori		30	3		•		
	• •	EAST	<u> </u>	18	0		•		۰ • • • • • • • • • • • • • • • • • • •
		WEST	3	18	6		. •		·
	<u> </u>	BOTTOM	<u>م</u>	18	6				
		EHST		30					2 ME
		WEST		42_	0				
			<u></u>	· · · · · · · · · · · · · · · · · · ·					
	DIACIT	<u> () ()</u>	- <u> </u>			·			
TOTAL DPM	<u>DIRECT</u> 180	<u>SMEAR</u>		1 .	1				
# READINGS	180	7					• •		<u> 4 ме</u>
AUG. PPM/100 CATE	25.71	1.29							
MAX. OPM/100 CM2	42	6						1	
MPA	23.52			1	· ·				
									Le ME
	•		· · · ·	•	1	••••••			
	· · · · · · · · · · · · · · · · · · ·				•				
		.				·			
	····			<u> </u>					DIRECT SMEAR 8 MET
		·	····	<u> </u>				TO TAL DPM	288 42
								#READINES	26 26
	•					·		AVG. OPrilingeri	11.08. 1.62
				1	1			MAX. OPrilioocri2	48 6
· · · · · · · · · · · · · · · · · · ·	•		<u> </u>		1		•	MDA =	28.81 · 10 ME
				1			· .		
	<u></u>	1	<u> </u>	<u> </u>	1				
	·····			· <u>·</u>		••••••••••••••••••••••••••••••••••••••			
				1			•		12 ME
								<u> </u>	
				1	<u> </u>				
								L	
·	· · · · · · · · · · · · · · · · · · ·		<u></u>	·	······································	·			

•			· · ·
r.T		• • • •	Q_{2} ($a = 10$ ()
CT			13600108 1-B-lack
т. 43-4			f Delach .
1. 43-7			AVC. 29
		C. <u>3</u>	
VALUE: 11/30Pr	I I E	TE: 7	-26-89
• •		s in drn/	100 cm
•	DIR CPH	ec t DPM	CHEAD
DIA.	Crn	Urn	SHEAR
			······································
METERS			
· <i>T</i>		_6	0
<u>· B</u>	2	12	0
E	(.	_ <u>_</u> \à	0
W	2	_12	6
METERS			
<i>T</i>	<u> </u>	6	<u> </u>
B	8	48	6
E	5	30	3
W	3	18	0
METERS			
T	4.	24	0
B	0	0	3
E	3	18	3
W		6	0
METERS			
B	<u> </u>	6	0.
Ĕ	<u> </u>	<u>6</u>	3
W	<u> </u>	6	
METERS			
·T	1	6	3.
B	3	18 12 12	0
Ĕ		12	0
·W		6	
METERS	2.	1	
B	2.	12	0
E	0	0	0
W	0	0	6
METERS			
T P		6	
<u></u>	2	1 12	. 0
E	ll	6	6
W	· /	16	D

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ANT <u>PU</u> AREA <u>121 DUCT</u> AVEYED BY <u>ILP</u>	• •		C 0 <u>2</u>	83600108 6 Black			PLANT <u>PU</u> AREA <u>121</u> SURVEYED BY <u>ILP</u>	BUCT		SC 1 <u>2</u> 8 TD. RY	1 Bluch
ST. 1.1101.11H 2220 * 52834 DET.	43-4	sc	URCE CK.	L Black	••••	-	INST. 1.101.10H 2220 + 52834	DFT 43-4	s	OURCE CK.	VC. 29
URCE CK 277-28/ BKG. 3(AM)										KG. <u>7</u>	
TTE: 7-24-89 Source #: 1/2 VAL	ut: 11130Pm						<u>PATE: 7-24-89</u> Source #:	://2 VALUE:///30Pm	D	ATE: 7-	
			S IN DPH/	•						GS IN DPH/1	^
	•	DIR						•	DI	RECT	
SANFLE O OR DESCRIPTION 24"	DIA.	Срні	DPH	SHEAR	· · · ·		SAMPLE O OR DESCRIPTION		Срн	DPH	SHEAR
M 121 EAST DUCT							RM 121 EAST DUCT				· · · · · · · · · · · · · · · · · · ·
EADING TO TUNNEL OME:	TERS		·		. *		LEADING TO TUNNEL	-			
	T	3	18	6				14 METERS			
	·B	16	60	0				T	_2	12	· 0
	E	2.	12	0	 			·B	_6.	36	0
	W	4	24	0	······································			E	3	18	0
2 ME	TERS	77)			<u> </u>			W		18	0
	T	8	48	0				16 METERS			
	B		48	0				<i>T</i>		12	0
	<u> </u>	5	30	0				B	_1_	6	<u> </u>
	W	5	30	0				E	0	0	0
	TERS								3	18	0
	B	<u> </u>	30	3		-			• 		
	E	<u> </u>	6	3				TOTALS		690	24
l Me	W TERS		<u> </u>	<u>_</u>				TREADING		32	32
Qric	BI	5	30					AVG. PPriliosen		21.56	0.75
	E	2	12	0	•			MAX. OPN/100Cm ² MDA =	·	28.81	6
	<u> </u>	3	18		· ·		······	1104 -		1 20.81	
8 ME	TERS			· · · · · · · · · · · · · · · · · · ·				· · · · · ·	•		- <u></u> .
	T	1	6.	3	· · · · ·	-					· · · · · · · · · · · · · · · · · · ·
	·B	5	30	0	· · · ·	- 					
	E		6	0							
•	W	2	12	3			•				
10 ME	TERS			-				•			
	<u></u> <u>B</u>	1	42	0							
	E	5.	30	- 3					•		· · · · · · · · · · · · · · · · · · ·
	W	<u> </u>	6	3	· · · · · · · · · · · · · · · · · · ·	ree Bunn brir Bilan 4				-	
	TERS	2	1		·	-	·				
- 	B	2	12	3						1	• · ·
	\underline{E}	2	12		· · ·						
· · · · · · · · · · · · · · · · · · ·	W		42	0		andre et al a constant				1	· •

LANT <u>PU</u> AREA <u>123</u>	DUCT		sc 1 2 9	3600108		PLANT PU AREA 123 BUCT		sc 1 <u>2</u> 8	2100104
IRVEYED BY ILP		С	D. BY	1 Black		SURVEYED BY <u>ILP</u>			
IST. 1.1111 2220 * 52834	DET. 43-4	s	URCE CK.	t Black AVC. 19	•	INST. 1.101.10H 2220 * 52834 DET. 43-4			NC. 24
OURCE CK269-296 BKG. /(A			c. <u>3</u>		•				
<u>NTE: 7-24-89</u> Source#			AT .: • 7	-71-00		SOURCE CK269-296 BKG. 1(PM)		KC. <u>3</u>	
			S IN DPH/	•		PATE: 7-24-89 SOURCE #: //2 VALUE: ///30		<u>ATE: 7-</u>	0
	•	and the state	ECT	100 614	T .			CS IN DPH/1	00 cm ⁻
SNIFLE Ø OR DESCRIPTION	24" DIA.		DPH	SHEAR	· · · · · · · · · · · · · · · · · · ·	SAMPLE & OR DESCRIPTION	• DI CPH	RECT DPH	SHEAR
RM 123 WEST BUCT						RM 123 WEST BUCT			
EADING TO TUNNEL	OMETERS					LEADING TO TUNNEL			······································
•	T	2	12	3	•	14 METERS			
	BI	4	24	0	[`.	B		48	· O
	E	<u>l·</u>	6	0		E E	3.	18	3
	w	0	Ô	0		ω	0	0	0
	2 METERS				· · ·	16 METERS	1		
····	<u> </u>	0	0	0		B	6	36	3
	BI		42	0		Ĕ	6	36	0
	E	_5	30	0		lu lu	12	12	3
	w	<u> </u>	24	0		18 METERS		-	
	4 METERS				1	lß		30	6
	B	<u> </u>	24	6		E	11.	6	3
	E	4	24	3		L W	1 1	6	0
	W	Ч	24	3		20 METERS			
	6 METERS					T		42	3
	B	<u> </u>	24	3				36	0
	E	0	0	0		<i>E</i>		30	0
	8 METERS	2	12	0			<u> </u>	6	0
	RI		42		· · ·	· · · · · · · · · · · · · · · · · · ·			
	E	6	0	<u> </u>					
	W	0	0	0		TOTALS		654	42
•	10 METERS					FREPDING.		37	37
	•71	O	0			AUG. OPM/100cm MAX OPM/100cm		17.68	1.14
	BI	2	12	0		Mittx (PAT) 100 CM	· · · · · · · · · · · · · · · · · · ·	16,63	6
	Ē	4.	24	6		1.00 %	· ·	15,6)	
	W	G	Ò	0	· · · · ·				
	12METERS				•		1		
	BI	0	0	0					-
	E	1	6	6					
	W	3	18	. 0					• •
			· 						

AREA 123. DUCT	1	s c 0 1	83600108		• •	PLANT <u>PU</u> AREA <u>123</u> ·DUCT	1.	C 1 7 (22C parts C
URVEYED BY <u>ILP</u>		τη πγ /	Black	•		SURVEYED BY <u>ILP</u>			13600108
NST. LINLIN 2220 * 52834 DET. 43-4			AVC. <u>29</u>	•		INST. <u>LUDLUH 2220</u> * 52834 DET. 43-4		TD. BY	Black-
				•					
SOURCE CK $285 - 302$ BKG. $2(AM)$		KC. <u>3</u>				SOURCE CK 285-302 BKG. 2(AM)		KC. <u>3</u>	
DATE: 7-25-89 SOURCE #: 1/2 VALUE: 11/3 OPA		ATE: 7-		;	-	PATE: 7-25-89 Source #: 1/2 VALUE: 11/3 OPA			`
		CS IN DPH/	100 cm	. 1		• •	READING	CS IN DPH/1	00 cm ²
SAMPLE & OR DESCRIPTION 30" D/14-	DIR CPH	DPH	SHEAR	1		SAMPLE OR DESCRIPTION	CPH CPH	RECT DPH	SHEAR
RM 123 EAST DUCT				;		RM 123 EAST DUCT		1	**** <u>*********************************</u>
LEADING TO TUNNEL						LEADING TO TUNNEL			
O METERS					•	14 METERS			
<u> </u>	3	18	3	,		7	· (·	6	3
B	5.	30	0	I	-	·······································	2.	12	0
E	3	18	. 0			E	Ч	24	. 6
w l	Ч	24	0			W	2	12	0
2 METERS	· .					16 METERS		1	<u> </u>
- 			-			T		6	3
B	1	6	0	I	-	B	5	30	
E	3	18	3			E			2
W	3	18	\sim	;		E W	9	54	
4 METERS	`` .				-	18 METERS	· ·		<u>_</u>
BI	3	18	0			B	3	18	Ô
E		6	3	ļ	-	D		6	<u>0</u>
W		36	3)		Ŵ	2	12	0
6 METERS	<u>k/</u> _	1	1	i		20 METERS		1	
· BI	0	0	0)		. T	2	12	3
E		6	0			B	7	42	3
	Ч	24	6	;		E	.4.	24	D
8 ME TERS				······································		W	5	30	0
B	1	6	6		-				······
E	0	10	0		÷				
· · · · · · · · · · · · · · · · · · ·		6	3			•			· · · · · ·
10 METERS.			1			TO THLS		654	63
<u></u>	<u> </u>	24	D			I READINGS		38	35
<u>B</u>	8.	48	3			AVG, DFm/100cm		17.21	1.66
E	<u> </u>	Ô	0			MAX PPri/100 cm2		54	6
W		6	0.	<u> </u>	1 8 -	MD12 = 1		23.52	
12 METERS					á.				· · · · · · · · · · · · · · · · · · ·
B	1	6	6	· · ·					· · · · · · · · · · · · · · · · · · ·
E	Ø	Ö	6			· · ·			· •
. WI	7	142	0					1 1	

Port = Ap Port = Ap AREA <u>Exhaust duct</u> IRVEYED BY <u>MULTURE</u> 159309 DET. 43-4	1	. 83	600/08		•	PLANT PL	EAST AREA <u>RM. 124 EX. DUC</u>		1 A.		3600115	
INTERED BY IN TETTING D	1				· · ·	SURVEYED BY A. Hete		L			1. Black	•
IST. 1.1101.11H 2220 + 59309 DET. 43-4	1		. <u>Black</u> NVC. <u>30</u>	• 1 • 1 • 1		TUST. LUDIUH 2220	* 158309 DET. 4	3-4	50	DURCE CK.	VC. 35	• ·
OURCE CK $256/255$ BKG. 1	1			•				<u>)</u>		::::::::::::::::::::::::::::::::::::::		,
NTE: 7-21-89 Source #:6478 VALUE:890 DAM	Br.	c. <u>.2</u>	21-89		-	SOURCE CK <u>156-255</u>	Source #: 6498 VALUE:	890 DA		ATE: 7-2		
· 000 /		_				<u>[]]]]]]</u>				IN DEN/1	`	
		S IN DPH/1					· · · · · · · · · · · · · · · · · · ·	·				-
SAMPLE & OR DESCRIPTION 24" DIA.	DIR CPH	DPH	SHEAR	·			DESCRIPTION 30" DIA.		СРН	DPH	SHEAR	
West Exhaust durt South Entry TOP	1	.6	3		a mangement		IST DUCT "OMETER	T	5	30	3	
<u> </u>		48	9			FROM TUNNEL		B		N/A_		
	23	138	6		•		· · · · · · · · · · · · · · · · · · ·	Ē	13	78	3	
Wed	5	30	9			T- TOP		10	12_	60	O	
Air Part Old 2. North			3			B - BOTTOM					· · · · · · · · · · · · · · · · · · ·	
East	2	12	6			E - EAST	IMETER	B		1 185	0	
Sault	_5_	30	3			W-WEST			,	60	0	
DIRECT SMEAR Wast		6/-	3			N - NORTH		w	13	78	0	
TOTAL DPM 984 90 MBATLAN	14	5,4	3	 .		5 - South	2	6		NIA		
READINGS 27 23 East	<u> </u>	24	6				2 METERS	D E	-7	42		
1v6-per/100cm2 36.44 3.91 West	<u> </u>	18	6			·	······································		· · · ·	46		
MAX. 00m/100 cm ² 138 9 4m Bottom MOA 28.81 East	<u>_/2</u> C	72	3		anna da anna a		· · · · · · · · · · · · · · · · · · ·	<u>v</u>	<u> </u>	66	66	<u></u>
MOA 28.81 East West		<u>· 30</u>	0		-		3 METERS	В	11	66	6	
lass Bottom		1 <u>2</u> 30						Ē	/	60	0	
East bettern East	3	18	<u> </u>					w	10	36	0	1
We ct-	7	42	0	<u> </u>				· · · · · · · · ·				
· SM But- 42		N/1	<u>_</u>	<u> </u>			· 4 METERS	ß	1	1 M/1	1	· .
. Ea-+ 1	6	36	6				· · · · · · · · · · · · · · · · · · ·	E	15	90	3	
1.10-7	. 7.	42	0	·				L	18	90	6	
1 ton Endan		<u> </u>										<u> </u>
							5 METERS	<u> </u>	12	72	0	
A D A CALL SI II II				<u></u>			•	E W	<u> </u>	24	0	
Air Port . Shed &M North		36	3	·			INLET PORT	• N		30	0	
East South	4	24	3			· · · · · · · · · · · · · · · · · · ·	-NEL FORI	<u> </u>		1 0	<u> </u>	
		18	3					<u> </u>	5	30		<u> </u>
(1/PS Th	ENO		<u> </u>					w	4	1 24	3	
	/V(1					·····					
SURVEY AROUND ENTRY		18		<u>.</u>			6 MÉTERS	B	17	85	. 3	4
JARVES TROUNDENIKY	3	10		·				Ē		1 155	6	
		42	· •	·				ω	12.	72	0	
		18	<u>_</u>	<u> </u>					1			

EHST AREA <u>RM. 124</u> EX. PUC IRVEYED BY <u>A. HITULU</u> IST. <u>LUDLUH 2220</u> + 9 58309 DET. <u>4</u> OURCE CK <u>256-255</u> BKG. <u>1</u> <u>FTF</u> : 7-21-89 SOURCE #: 6498 VALUE:	3-4	C1 50 B1	TD. BY		•	EAST PLANT <u>PU</u> SURVEYED BY <u>T. POWELL</u> INST. <u>LUDLUH 2220</u> <u>+ 52834</u> DET. SOURCE CK <u>288-272</u> BKG. <u>3</u> <u>PATE:</u> 7-27-89 Source #: 112 VALUE	<u>43-4</u>	C S(B!	SC I <u>(</u> TD. BY <u>-</u> DURCE CK. A KC. <u>3</u> ATE: 7-2	
			CS IN DPH/	100 cm ²			READINGS IN DFM/100 cm ²			· · · ·
SNIFLE Ø OR DESCRIPTION	•	DII CPH		SHEAR		SANFLE Ø OR DESCRIPTION	•	DII CPH	DPH	SHEAR
7 MÉTÉRS	B	12	72	3		14 METERS	Б	6	36	3
	Ē		66	0	4. 		E	.5	30	D
	w	10	60	6		•	···ω	7	42	3
	·						·		1	
8 rie Ters	·B		N/A			. 15 METERS	B	11	66	0
	E		90	6			E	4	24	0
	ω	27	135	O			w	1	6	3
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			· · ·			INLET PORT	N	11	610	3
9 METERS	B	10	60	0			Ē	5	30	0
	E		6	.0			5	2	12	0
	ω	_ 8	48	3	-		ω	3	18	0
INLET PORT	<u>N</u>	7	42	0	•					
	E	10	60	0	•	16 METERS	D	26	156	0
	5	2	12	6	-		E	ų	24	0
	ω	5	30	-3	-		w	2	12	0
				· · · · · · · · · · · · · · · · · · ·	-			<u> </u>		
10 METERS	B E	6	36		<b></b>	17 METERS	B		1 30	3
	E W	16	96	3	-		E		6	6
······································	·		1 12	6	-		w	<u> </u>	12	3
11 METERS	BI	5	30	3	••	10,	B	· · ·		~
	· E	 4	24	3	•	18 METERS	· E	<u> </u>	30	<u> </u>
	10	3	118	0	•		ω	<u> </u>	30	3
•	1					•	<u> </u>		20	
12 METERS	·BI	4	24	9	•	19 METER?	-B	4	24	0
•	Ē	5	30	0		·	E	2	12	0
	w	8	48	3			$\omega$	7	42	.3
						INLET PORT	N	4	24	6
13 METERS	B	5	30	3.			É	2	12	6
	E		6	<u> </u>	• •		51	1	6	. 0
	w	2	12	0	•		ωI	7	42	0
· · · · · · · · · · · · · · · · · · ·					-				1	••
									1	

• •

LANT <u>Pa</u> ARE NRVEYED BY <u>7 PANEL</u> NST. <u>1.101.11H 2220</u> OURCE CK <u>288.272</u> B	A <u>Bry 124 EX. 1</u> L 152834 DET.		CT SC	TD. BY	83600115 <u>J B. G. k</u> AVC. <u>27</u>		FLANT <u>Pu</u> AREA SURVEYED BY <u>A Hetalus</u> INST. <u>LUDLUH 2220</u>	58309 DET. 43		C S	TD. BY	VC. 27
P.T.F : 7-27-59		ALUE: 11/2 DAA				* 1 .	SOURCE CK 249-231 BI		600.00	•	KG. <u>2</u>	,
**************************************				S IN DPH	<u> </u>		PATE: 7-20-89	Source : 6998 VALUE			<u>ATE: 7-</u> CS IN DPH/1	· · · · · · · · · · · · · · · · · · ·
		•		IECT		1.5.5.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.1 1.1.						UU Cm
SNIPLE OR DES	CRIPTION	• .	Срн	DPH	SHEAR	27	SNIFLE & OR DESC	RIPTION 24" DIA.			DPH	SHEAR
INLET POR	T 20 METER	s N	11	66	0		BO-1 EXHAUST			7	<u> </u>	0
	· · · · · · · · · · · · · · · · · · ·	Ē	7	42	3		FROM TUNNEL		Ē	0	0	0
		<u> </u>	2	12	3				·B	10	60	<u>0</u>
	·	w	3	18	6		IT- TOP	· ·	· w	4	24	<u>_</u>
			2	10	0		B - BOTTORI	· · ·			·	<u> </u>
		E	0	0	0		E-EAST	IMETER	B	6	36	0
		w	0	0	0		W-WEST		El	9	54	0
	DIRECT	SMEAR				4 - 19	N - NORTH		ω	10	60	<u>0</u>
TOTAL DPM	3420	153					5 - 50UTH		1			······································
* READINGS	80	80						2 METER	El	6	36	0
AUG. DPM/100 cm2	42,75	1.91							BI	19	114	6
MAX. DPM/ 100 c192	185	9							ωI	5	30	3
MD A=	28.81					-	· · · · · · · · · · · · · · · · · · ·					
								3 METER	BI	3	1 18 1	3
·				. · ·		6 10 10 10 10 10 10 10 10 10 10 10 10 10			E	3	1 18	3
				1				· · · ·	w	3	1 18 1	6
		· •		<u> </u>		-						
	•		· · · · · · · · · · · · · · · · · · ·		1	:		· HMETER	Ēl	Ч	30 1	3
· · · · · · · · · · · · · · · · · · ·	•					· · ·		· •	B	3	24	0
· · · · · · · · · · · · · · · · · · ·		·		!		•	}	· .	<u>w</u>	_14	70	3
				¦		* : *						. <u></u>
- ·								5 METER	B	10	60	3
<u> </u>	•							•	E	6	36	03
<u></u>		•				•		-	<u>w</u>	10	60	
	•			i				· 6 METER	E	12	1 12	/
	· ·				<u> </u>			10 METER			12	6
							}		<u> </u>	<u> </u>	66	<u>0</u>
	· · · · · · · · · · · · · · · · · · ·	1	- <b>-</b>		<u>··</u>	- 1			<u> </u>	17	84	d
	· · · · · · · · · · · · · · · · · · ·			: 	,			TMETER	B	8	48	
					1			IMEIEK	E		84	00 0
							L		L 1		07	0

<u>CT</u>			83600105 4 Black	
43-4			NVC. 27	•
	1	C. <u>2</u>		
18:890 0An	1		-20-89	_
••		S IN DPH/	100 cm ²	
•	DIR	ECT		
9,	Срн	DPH	SHEAR	•
s T	7	42	0	
E	0	0.	0	: :
·B	10	60	<u> </u>	
·ω	4	24	6	
B	_6	36	0	<u> </u>
E	9	54	00	
ω	10	60	<u> </u>	<u></u>
Ē	_ 6 .	36	0	— <u>———</u>
B		114	6	
ω	5	.30	3	
B		18	3	
E		18	3	
w		18	6	
		1 1		·
El	<u> </u>	30	3	
B		24	0	
<u> </u>	14	70	3	······································
·B	10	60	3	
E	6	36	0	
w	10	60	3	
•		<u> </u>		·
E	12	12	6	
B.I	11	66	0	
ω	14	84	6	
				•
BI	8	48	0	
E	14	84	0	
ω	17	66	. 0	
1			-	
1		1		

LANT <u>fu</u> AREA <u>BO-1 EX. PUCT</u>			13600115		FLANT <u>Pu</u> A	area <u>Bo-1 Ex</u> .	. PUCT		sc / _/ _8	3600115
IRVEYED DY 7. POWELL	C	.TD. BY	+ Black	•	SURVEYED BY I. POWE	ELL		CT	TD. DY	-Black
HST. 1.101.11H 2220 + 52834 DET. 43-4	S'	COURCE CK. A	AVC. 27	•	INST. 1.101.11H 2220	* 52934 [	DET. 43-4	្ទះ	OURCE CK. A	-Black AVC. 27
OURCE CK 288-172 BKG. 3		BKC 3			SOURCE CK 188-272	•		B		
SOURCE #: 112 VALUE: 113					<u>PRTE: 7-27-89</u>				ATE: 7-	
		CS IN DPM/1							CS IN DPH/1	
	• DII	IRECT					•	DIR		
SAMPLE & OR DESCRIPTION	Срн	DPH	SHEAR		SAMPLE OR D	DESCRIPTION		Срн	DPH	SHEAR
	B 13	65	0			ISM	ETER B		78	0
٤٤	<u> </u>	45	0				E	10	60	6
<u>.</u>	0 4	20	0		•		ω	8	48	0
		<u>                                     </u>	· · · · ·	<u>.</u>			·			
گی دون ده می بید به به منابع که معالم است که به موجود بین است و می با است و می معالم معالی می می است و این می	B F	48	3		INLET.	.To BO-1 16M	NETER T	5.	30	0
	E 16	96	9				E	0	0	6
د	w 10	60	0				· W	17	85	. 6
		<u> </u>					13	6	36	3
10 METER	<u>B 28</u>	168	0	2 - -						
<i>E</i>	E 12	72	9	<u> </u>						l
<u>_</u>	U 8	48	3			·····				1
1		<u> </u>	1			DIRECT	SMEAR			
11 METER 1	<u>B</u> <u><u> </u></u>	24	1		TOTAL DPM	3010	126			
	<u>E</u> 6	36	1		# READINGS	56	56			
L	<u>w 14</u>	84	0		AVG, DPM/100 cm2	53,75	2.25			
		'	<u></u>		MAX. OPM/100 cm2	168	9			<u> </u>
	B 7	42	3		MDA 27.72	12 DPri/100 CM	2.			1
	E = 12 W = 11	132	0						1	
· · · · · · · · · · · · · · · · · · ·		66	3							1
13 METER	B 10	60	0	· · ·	·					1
	EI 6	36	0						1	
	w 12		3			<u> </u>			· [ .	<u> </u>
	TI 16	96	3			•	i	· <u> </u>		1
	El 8	48	0	·		<u></u>	-			<u> </u>
	6 -	N/A				•			1	1
	w 3	1 18	9				-	· <u>········</u> ·	1	
		1/						·	1	
14 METER	B 10	60	0	•				·	1	
	E 12		0							, , , , , , , , , , , , , , , , , , ,
	w 11	55	3						1	
		<u> </u>	··							
		1 '	·						1	



FRAME

OUTSIDE

NENTE STAR AND ASY2 GREEN: 3200 WHITE BACK IVORY

 $\bigcirc$ 28-6 7 D 0 9 14 DOGR OUTSIDE 2 -28 Ø 0 28 **( )** 

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B D D

1 0 35 20 <u>1</u> 1 - 27 20 <u>1</u> 1 - 27 20 <u>1</u>

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21 0 0

BO-2 LOOR LEEDING TO TUNKEL

7-6-89 LUDIUM 2220 #58318,43-4 SCURPE # 6868 1055d.pm Sattle CK; 21.2.279 SKG-2.41 8 286-215 BM2-2151 35 - 0 721 (D) 28 1 <u>(4)</u>_ Imail, AND ONTSIDE 3 DIRECT SMEAR TOTAL DPM 2807 150 READINGS 82 82 761 5 DPm/100 cm2 AVG 34.23 1.83 3 MAX Drm /100cm2 84 9 6 49 MAR 27.44 7 1 DPM HODCM2 17 2 FINED Ŷ 49-0 (14) IDENFICATION #CIRCLED SMEARS UNDERLINED (4) 7 <u>0</u> (5) 42 <u>2</u> (6) 14 <u>2</u> . · L-lo 000 Ø 12 43 B 22 24 0 E 70 - 1 - 2 0 E 70 - 1 - 2 0 E 70 - 1 - 2 0  $\alpha$ . PRINTED IN U.S.A.

PLANT PU AREA Bor Tunnel Door		83600115		1	71 0000
EUDIEVED BY TRANS		a A A	PLANT <u>PH</u> AREA <u>Rod Turned Door</u> SURVEYED BY <u>I Rousell</u> France INST. <u>LUDLIH 2220</u> * <u>59319</u> DET. <u>43-4</u> SOURCE CK <u>286-245</u> BKG.	ASC 0 /- X	3600115
SURVEYED BY <u>I Pourell</u> INST. <u>LUDLUH 2220</u> <u>* 58318</u> DET. <u>43-4</u> SOURCE CK <u>284-279</u> BKG. <u>2-2</u>	CID. BY	n Black	SURVEYED BY I Powell And	CTD. BY	m Blacke
$\frac{100104}{264-279} = \frac{28318}{264-279} = \frac{100104}{28318} = 100104$	SOURCE CR. J	νς. <u>ζ</u>	INST. 1.101.104 2220 * 58319 DET. 43-4	SOURCE CK.	AVC. <u>32</u>
SOURCE CK 281-245 BKG. 2-2	BKC 3		SOURCE CK 286 - 245 BKG.	BKC. <u>3</u>	
PATE: 7-6-89 Source #:6868 VALUE: 105500			PATE: 7-6-89 Source #: 686 WALUE 105 TOPA	PATE:	7-7-89
• READ	INCS IN DPH/1	00 cm ²		READINGS IN DPH/	100 cm ²
	DIRECT		•	DIRECT	
	DPH	SHEAR	SAMPLE Ø OR DESCRIPTION	срн ррн	SHEAR
BO2 Dom LEANING TO TUNNEL 11-1	7		1 Boo Dan Joan Leading 201	7 49	3
Outside 2/4	28	0	To Turnel all	6 42	0
	28	0	.   22	2 14	0
4 4	28	3	23	12 84	0
5/10	70	3	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	3 2/	0
67	49	9	. 25	5 35	2
71 4	128	6	26	4 28	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
8 5	35	0	27	Z 14	
4 2	14	0		10 70	2
10 3	21	6	29	10 70	<u> </u>
	28	0	30	3 31	0
12 2	14	0		<u> </u>	
13 1	17	0			
14 7	49	0	· · · · · · · · · · · · · · · · · · ·	· · · ·	! 
Door Trame Leading	47				
t. Turnel Outside 113	21				·
<u>110</u>	21	2			
	1 20		· · · · · · · · · · · · · · · · · · ·		!   .
······································	7	<u> </u>	·		<u> </u>
	42	6			
(. 2	14				<u> </u>
7 2	14	3	· · ·		
9 3	. 21	0			
• 9 12	24	0			
10 5	25	3	-		
		0			· ·
12 0	0	3			· · · · · · · · · · · · · · · · · · ·
13 4	29	6		·····	
14/10	20	0			
15/ 12	— · — · · · · · · · · · · · · · · · · ·	3			• 
/6/3	21	3			
12 7	49	<u> </u>			
	77	3			!
10 m					

W = F	OR EX ENTRI INAL	ANCE	<u> Τυννε</u>	-	TYPE	OF	INSTRU	JMENT L	UDLUM	2220		43-68	<u>́</u> н	.P. SIGN	ATURE	ŶĹ	4-28 uele,	5
	<b></b>				SERIA	LN	UMBER	5	00%	8			A	ITO. SR.	MPLEC	OUNTE.	n#: 1	/
S 1.5cm =,5 Meter					ł		•											
D-DIRECT																		
F-FLOOR S-SMEAR C-CEILING		2-16		D . D	-36			0-28 5-3		. D. 5	60							
N-NORTH WALL MOA 15.68	1.100.2	5-6		5				5-3		5	-0					-		
S-SOUTH WALL Demploceme	-	2.76		16														Ī
E - EAST WALL FIXED W-WEST WALL			5-	3					D 5-	4								
Source #: 6968 VALUE: 1055 DAM	<u> </u>				<del> </del>								· · ·				TOTAL	1
INSTRUMENT		0-44			44		• .	0-8	•		4					Ħ	READ	
DATE SOURCE C/ EKGC.		5-9		5		╞─┼		9-0 5-6		5			<u> </u>				AVG D	÷
4-27.89AM 237/242 2						]											MAX	h
ASC#1		1	FLOOR	<u> </u>		!			CEILING	!							1	<u>62</u> 
4-28-4 27 ,3	-																	
		1		<u>_</u>			·							· · · ·			<u> </u>	$\frac{1}{1}$
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			NORTH	WALL					SOUTH	WALL				EAST	WALL		<u> </u>	ļ
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8-89 SURVEY UNITS m those 240 1 83600115 18 . SMEAR PINECT 320 pp 60 INUS 30 pm//ceca- 10167 2.0 ppm//ppcm= 44 9 D-16 5-3 D-0 5-0 4 0-1 5+3 D-0 5-3 0-16 5-0 WEST WALL



.

7-6-89 111/1/1 2220 # 58318,43-4 SOURCE == 6868 1055 dpm Source et. ! 2.67-279, 126-2(11) 2.04-265 BKS-2(11) 8 14 · 3 Ø 28-3 D 2 9 ì **B** 23 Ð (3) 0-6 21-3 PRINTED IN U.S.A.

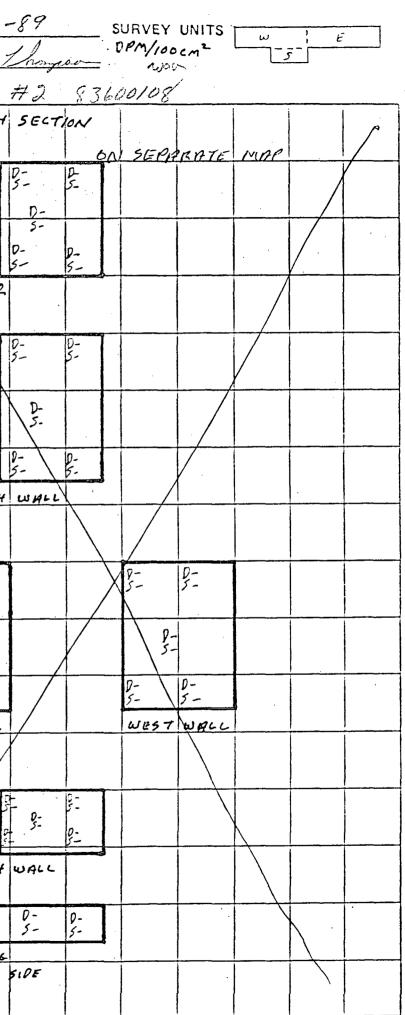
AREA <u>DAM TAISIAF TH</u> AREA <u>DAM TAISIAF TH</u> AURVEYED BY <u>J POWELL</u> AUST. <u>LUDLUH 2220</u> <u>583/8</u> DET. <u>43</u> SOURCE CK <u>284-265</u> BKG. <u>2-2</u> DATE: <u>7-6-89</u> SOURCE <del>5868</del> VALUEYO	-4 55000	AS CT SO BK	$\begin{array}{c} c & 2 \\ \hline c & 2 \\ \hline d & BY \\ \hline A \\ \hline D \\ BY \\ \hline A \\ \hline A \\ \hline C \hline \hline C \\ \hline C \\ \hline C \hline \hline C \\ \hline C \hline \hline C \\ \hline C \hline \hline C \hline \hline C \\ \hline \hline C \hline$	<u>93600108</u> <u>n: Placke</u> AVC. <u>31</u> 7-7-89	•		PLANT <u>PH</u> SURVEYED BY <u>I POWFIL</u> INST. <u>LUDLUM 2220</u> * 58318 DET. <u>43-6</u> SOURCE CK <u>264-279</u> BKG. <u>2-2</u>		CTD. BY <u>1</u> SOURCE CK. BKG. <u>3</u>	9360010 m R.C. ak
			S IN DPH/	•			PATE: 7-6-89 Source #:6848 VALUE:105			· •
SAMPLE 0 OR DESCRIPTION	•	dir Cph	ect DPH	SHEAR			SAMPLE D OR DESCRIPTION	келит • D Срн	NCS IN DPH/ IRECT DPH	SHEAR
Bog Door Inside Turnel	11	2	. 14	6						· · · · · · · · · · · · · · · · · · ·
	2	5	35	0		: .		267	49	3
	.31	5	35	0		•	· · · · · · · · · · · · · · · · · · ·	2/ 4	28	
	. 41	8	56	3				22 8	5/_	0
	.51	1	7	0		•		23 9	63	<u> </u>
	C	4	28	0				24 5.	35	3
	71	4	2%	?			·			
	8	2	14	3						·
· ·	91	8	56	1 /.						
	10	3	21	9						
· · · ·	11	)	7							
	121	<u> </u>	28	3						
	13		0							
	1.4	3	$\frac{0}{21}$	2						
· · · · · · · · · · · · · · · · · · ·	-17	<u> </u>								
Door Frame In side turnel		2								
Nov Trame for unda lummel		3	$\frac{\lambda}{12}$	0	<u> </u>	÷.,			1	1
	2	9	63	<u> </u>		. •		1		1
•	5	10	42							
· · · · · · · · · · · · · · · · · · ·	4	- 12	42	0	·		· · · · · · · · · · · · · · · · · · ·			
	5	-14	42	0	·			·   · ·	·	
	. 7	(^	42					1		
	$\frac{1}{2}$	9		0						
	9	- 4	63			-				
	<u> </u>		28	0	· ·		•			
	•10			1 2	<u></u>				_	
		- / 	49	1				1		
· · · · · · · · · · · · · · · · · · ·	12	<u> </u>	_35			:				
	13		<u> </u>	<u>  5</u>						
	14	2	56	3	<u>·</u>					1
	15	0	0	0		WWWA NAME AND				· ·
	16	4	28	1						
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	191	7	49	10			1 · · · · ·	1	1	1

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mul	۸s	c 1 2 -	23600108
	СТ	D. BY 1	m Black
13-4	50	URCE CK.	AVC. <u>. ?/</u>
		c. <u>3</u>	
10550Pm	Dr	TE: 7	
• •	READING	S IN DPH/	<b>n</b>
•	DIR		
		DPH	SHEAR
20	7	49	3
_21	4	_28_	
22	8	_56_	0
23	9	63	<u> </u>
-24	<u>5</u> .	35	3
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N AREA <u>F40</u>		HUST 7 ECTION				SURVE				<b>.</b> .				ON DAT	,		
	INAL G		-			INSTRU								ATURE			
	<u> </u>			. 5	EFIAL		<u> </u>	$\frac{\bigcirc o_{\ell}}{1}$	<u>)68,</u>	1 1500	1		110.34		CUNTE	<u>* : {</u>	73
5 1.5cm = 1 Meter			· · ·												-		
F-FLOOR D-DIRECT		0-48	0.90	1-40	10-40	17 1.0	10-21-	1.	10-14	0-32	10-16	D-22	10-20	0-44	0-36	0-12	 In
C-CEILING S-SMEAR		0-48 5-6	0-80	5-3	0-78 5-0	D-40 5-0	D-34 5-3	0-20 3-0	5-3	0-32 5-0	5-6	D-32 5-0	P-20 5-3.	0-44 5-0	0-36 5-0	5-3	Ľ
N-NORTH WALL MAR = 19.20			20	<u>c</u>	- 34	2.	80		-56		36		36	Q-	20	D.	1
S-SOUTH WALL DPr/100 cm ² E-EAST WALL		5-		0-16		D-12 5-	0 0-36 5-3	0-24 5	0-60	0-36 5-0	3. D-20 5-0	5- 0-60 5-0	0-44	9-36 5-9	0-8	5. 0-4	
W-WEST WALL FIXED		0-94 3-0	0-20 5-3	0-16 5-0	0-40 5-0	D-12 5-0	5- 3	5-3	5-0	3-0	5-0	3-0	5-6	3-0	9-8 9-0	D-4 3-0	ľ
Source : 6968 VALUE: 1055 0.PM								1		FLOOR							T
INSTRUMENT																	
DATE SOURCE CA BKGD	<u> </u>	D-34 5-3	0-16 5-6	D-20 5-6	0-20 5-0	D-8 5-3	0-52 5-3	0-84 5-3	0-60	0-90 5-0	0-84	D-72 5-0	0- 44	D-0 5-0	0 - 5 5 - 0	D-2.3 5-0	D
4-24-89 241-234 2	-			5-6	5-0	5-3	1.			· ·		3-0		5-0		0-2	15
4-25-89 228-246 2	· · ·	Ę-	40		- 14	<u>p</u>	4		- 68	C C	176	<u>p</u> - S-	12	D -	28	<u>p</u> . 5.	-12
4-25-89 238-265 3	-1	2-28	0-40 5-0	2-20	D-0	2-32	0-44	2-44		0-88	0-36		0-12	0-16	p- 52.	0-0 5-3	0
4-26-89 256-218 2	-	- 2	5-0	p · 0	5-0	5-0	5-0	<u>[-0</u>	5-3	p= 6	5-6	5-0	5-0	5 · 6	5- 0	2-2	15
4-26-89 262-271 3										CEILIN	6						
4-26-89 273-232 3	-														ŀ		
4-27-89 255-273 2		2-32 S-3	0-20	9-20 5-3	0-36	0-32	P-28 5-0	D-16 5-0	P- 32 5- 0	2-24	0-16	D-20 5-9	0-12 5-3	D-16 5-0	D-44 5-0	D-32 5-9	05
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6-19-89 198-212 2		D- 5-	0	<u> </u>	- 12	<u> </u>	- 36		-16		. <i>36</i> . 0	<u> </u>	28	D- 5-	3	<u> </u>	
		9-40 3-3	ſ	D-36	0-44	2-52	p-28	7-68	0-40		•	0-28	0-10	2-16	0-28	0-20	
	-	3-3	0-5	5-6	15-0	5-0	15-3	5-0	1:.3	<u>5-3</u>	5-6	5-3	5-5	5-3	15-0	3-3	4
								-		NORTH	WALL						
ASC# 2												0.00			n a	60	
4-27-89 30 ,3		5-32	D-48 5-3	D-44 5-0	0-36	D-32 5-3	0-20	D-20 5-0	0-24	0-16 5-9	D-20 5-6	0-20 5-0	D-8 5-0	D-16 5-3	D-8 5-2	D-8 5-3	
4-28-89 27 .3		D-		D	- 48	D-		D		p-	20	Q-	24		48	D.	_
6-19-89 29 ,3		· 5-		5.		- ک	0	5.	- 9	5-	3	5-	3	5-		5.	
	-	0-36 3-0	0-24	0-20	0-24	D-16 5-3	0-24	0-32	5-24	0-8	0-20	0-24 5-0	D-48 5-0	D-12 5-0	0-24	D-24 5-3	2
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· · · · · · · · · · · · · · · · · · ·	_									SOUTH	WALL		n	IBEC	4	[	
	<u>.</u>	0-16	0-32	 					<u> </u>	<u> </u>			6290-		1700	.1/	+
		0-16 5-0	5-0										and l	DIAL	DFR	1	
		D-								<u> </u>			205	MEM.	1126:	>	+
·		5-											30,68	ppm	V100C	m	
······		7-34 5-0	9-48 5-0		-								9%	MAX	DPN.	11000	
		EAST															
}										ļ							

SURVEY UNITS -89 ω E 5 0-12 0-14 5-3 5-0 0-56 5-0 0-12 0-8 16 D-52 5-3 4 5-0 0-12 0-32 5-0 5-0 9-8 3-0 0-16 5-3 D-12 5-3 0-12 5-6 D-36 D-12 5-3 5-0 D-28 5-0 0-8 5-0 24 9-16 5-6 0-24 5-3 0-36 0-36 5-3 5-3 D-28 5-0 D-24 D-12 5-0 5-6 2-16 D-24 5-3 5-0 D-32 D-52 5-0 5-0 10-32 13-0 0-48 D-16 5-3 44 0 5-0 0-36 5-0 9-44 p-32 5-0. 5-0 2-24 D-48 5-0 5-0 D-40 D-20 D-16 5-3 5-0 5-0 D- 16 D-14 5-0 5-0 80 3 D- 40 5- 0 0-12 5-0 D-4 5-3 D-44 D-32 D-4 5-3 5-7 5-0 0-16 SMEAR . 3:8 TOTAL COM SINFARS 30 5 DAM/100cm2 1124 MAX DADI locan 2 7 147 12:

N AREA <u>EL</u>	FINAL	GRID 2	Virt	rection T	YPE OF	INSTRU	JMENT	LUDLUM	1220	DET.	43-68	_ '	H.P. S	IGNA	TURE	COUNT		1_
	<b></b>	1		S	ERIAL I			1000	1112	1	1		1410	. <i>347</i>		1		
5 1.5cm = 1 Meter					WEST	SEC	TION										South	1
D-DIRECT		1		1				1			1				<u> </u>			
F-FLOOR S-SMEAR C-CEILING		0-40 5-0	5-12	5-4	10-28	5-3	5-64	5-3	D-52 5-3	5-6	D- S-	3				D- 5-	D- 5-	D 3
N-NORTH WALL MDA 19.20			- 74	D.	0	D-	32	D-	32		0-64					D-		
S-SOUTH WALL DPM/10000		3	13	3-	0	3-	0	5-	0	0 40	3-0					5-	1	Ī
E - EAST WALL FILED W-WEST WALL		0-28 3-3	D-32 3-0	D-24 5-0	P-36 5-3	D-56 5-6	0-20 5-3	0-44 5-0	0-44 5-6	P-40. 3-3	5-	70 ()				P-	D-	0
Source #: 6869 VALUE: 10550PM						FLOOR				<u> </u>						$\leftarrow$	FLOOR	2
INSTRUMENT																		
DATE SOURCE CA BKGDC									-						. +. 		$\frac{1}{10}$	
4-21-89 AN 217/237 3	-	2-12	D-24 1-0	0-8	5-0	2-24 5-0	2-32	2-24 5-3	5-3	D-14 5-0	D- S-	64 3				17- 5-	5-	5
4-21-89 Pm 244/250 1		D	- 12	. p.	12	D-	32	· D-	8		0-16							
4-23-89 AM 251/238 2		5	-13	5.	0-12	5-	3	5-	0	1 20	5-3	51.				0-5-	4	X
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L4	ARE	A Pu-PL	ANT			-	TYPE C	F SUR	VEY of	DIRECT	t & SM	EAR		_ C	OMPLET	ION DAT	re <u>4</u>
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							SERIAL	NUME	ER 5006	Elud	um 1-	13-6	8 detu	lor H	470.5	AMPLE	COUNT
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4-18-89 AM				7-32 :- 3	5-0	5-24 5-0	5.0		9-44 5-0	D-12 5-0	5-20	5-6		3-0	5-0		
4-18-89 PI	25/266	2		5	24	D-3(			D	-32	0-28			D-	36		
4-19-89 AM	231/223	3-1-	•		-16	1 5-3		1		-0.	5-6			5.	0		
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-21-	89	S	URVEY	UNITS	•		
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0-44 6-6 5-0	5.0	2	7.52	ppm,	11000	m 2 M	G.
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p-12 -0	5-0	<u>  </u>	213	TOTA	12 DI	m	
WEST	WALL		134	SME	HRS		
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			1.59	DPM	1100	cm2/.	16
0-13 5-3 2-25			92	May.	DPM.	looen	v Dien
0-34 5-0			6	May.	DAM /2	live en	Spicer
<u> 12</u>							
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Extern	ist TUNN	lel	PIPE SURVEY		PAGE / OF	10	E	chalist Tu	wel PI	PE SURVEY		PAGE 2 0	<u> </u>
								· · · · · · · · · · · · · · · · · · ·					
LINE NUMBER 53	4		DAT	E J:	2-89		LINE NUMBER	534		D.	ATE 5	-3-89	
	1/11/1 2:	20	SERIAL NUMBER	5830	19	<b>—</b>	,	uplum 2	220	SERIAL NUMBER	5-8	301	
DETECTOR 4774			OPERATOR	RHM				42-4		OPERATOR	RHW	2	<del></del>
SOURCE NUMBER AND		8	1055 DPM				SOURCE NUMBER A	ND VALUE # 68	68	1055 DPM	·		
SOURCE RESPONSE AN			2461272 BKg2				SOURCE RESPONSE				1/ 3		<del>94</del>
SOURCE RESPONSE AN			268/279 Phr 3		· ·		SOURCE RESPONSE	AND BACKGROUN	TD PM	253/255 13	2.2		
	HT Con				X12		-				<i>v</i>		L Succession
START OF SURVEY	TIPE OF	DTA.	READING LOCATION	D	rect _dpm/100cm2	Smearable dom/100cm ²	START OF SURVEY	LINE	DIA	READING LOCATION	D:	rect Ldpm/100cm ²	Smearabie dom/100cm-
START AT ERST	Conduit	14.11	N-O-METERS	7	84	0	CONTINUED	Conduit	<u><u><u></u><u><u></u><u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u><u></u></u></u></u></u>	1 14 METERS	- 2.	24	0
UPLL OF MHIN			5. O DETSPS		84	0	FROM PS #1		5	14 METERS		12	6
THANEL MERK	·		N- I METER	_7	84	3	· · · · · · · · · · · · · · · · · · ·		1	IS METERS	1		0
ENTRPRICE, PMD			5-1 MISTER	4	48	3			5	<u>15 m 57885</u>	5	60	9
IN THE MIDDLE			N-2 METERS	4	48	3		·	<u></u>	1 11. METERS		60	<u> </u>
OF CEILING			5.2-METERS	7	84	3			5		3	36	3
APOUT 3M FROM	•		N- 3 METERS	7	84	. 9			n,		0	0	3
WEST WALL			5-3 METERS	4	- 48	0	· · · · · · · · · · · · · · · · · · ·		<u>  </u> 5	17 METEXS	5	60	0
		· · · ·	N. H. METERS	6	72				/		/	12	3
			5-4 METERS	.6	72	0			S	18 METERS	5	60	0
			N-5 METERS	4	48	0			/ <u>/</u>		0	<u> </u>	
			5-5 METERS	5	60	0			<u> </u>	19 METEKS	3	36	
			Nº 6 METENE	0	0	3			<u> </u>	20 mFTERS	5	60	0
	DIRECT S		5- 6 METERS	<u> </u>	0	0					0	0	3
TOTAL DAM	5502		N- 7 METERS	3	36	3			/\	3 METEUS	3	36	<u></u>
# READINGS			S- 7 METERS	0	0	0			\$	21 DIFTERS	6	72	0
AVE DPIN Liccon			N- 9 DISTERS	6	72	0			<u></u>	22 METERS		12	<u> </u>
MAX Open los	<u>, = 94</u>		5- 8 1-17-14	69 1917 -	24	0	·		5	22 13- 595 115		36	3
			Nº 9 MENONS	?	36	0			//	22 METTYS	3	36	3 6 0 0
			5-9 111575183	7	84	3				23 metens	6	72	6
MDA = 57.61			N-10 METERS	3	36	6	·			V. 24 METERS	6	72	
DPM/100 CM2			S-10 METERS	7	84	0				24 METERS	6	72	
FIXED			N- 11 INFTERS	2	36	9			.  <i>i</i> /	25 METERS	6	72	
			S- 11 METERS		72	9			.	25 METERS	5	60	<u> </u>
·			N- 12 METERS	_5	60	0			/	26 METERS	6	72	2
			5-12-METERS	2	36	0			. 5	26 METERS	6	72	3
			N-13 METTERS		36	6			.			.	
			S-13 DETERS	6	72	3			·				
			Next Pace				j				<u> </u>	<u> </u>	
			<b>ن</b> 			** · TET N I ·			•				
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LINE NUMBER 5	34					-3-89	
	IDLUM 22	20	<b></b>	SERIAL NUMBER		3.01	
	12-4			OPERATOR	RHM	· · · ·	
SOURCE NUMBER AN	D VALUE # 686	,		55 DPM			
SOURCE RESPONSE	AND BACKGROUND	AM	2	46/270 53/255	361 3		<del></del>
SOURCE RESPONSE	AND BACKGROUND	PM	2.	53/2.55	Bla 2		
·	IIPE OF	1	T		. D1	rect 2	Smeara
START OF SURVEY	LINE	DIA_		DING LOCATION		rect Ldpm/100cm ²	
CONTINUED	Conduit	<u><u>k</u>"</u>	10	14 METERS	4 .	24	0
FROM pro #1			5.	14 METERS		/2	6
			1)	IS METERS		$\frac{12}{12}$	
			5	<u>15 m 57885</u>		60	1 1
	_		IV .	11. METERS	1 -	60	9
		<b> </b>	5	16 MITENS		36	3
			D/	17 METEKS	0	0	
			5	17 METERS	- 1 -	60	0
			N	18 METERS	4	12	· {
		<b> </b>	5	18 METERS		60	0
			N	19 METERS		<u> </u>	9
			5	19 METERS	3	36	
			<u>M</u>	20 mETEKS	5	60	<u> </u>
		 	S	20 METEKS		0	3
			<u>IV</u>	31 MIETEUS	3	36	3
	· · · · · · · · · · · · · · · · · · ·		5	21 DIFTERS	6	72	0
			N	22 METERS		12	
			5	2213-595195	3	36	3
			N	23 METTVS		36	123
			5	23 INFIENS	6	72	6
			19.	24 METERS	1	72	<u> </u>
			5	24 METERS		72	0
-			<u>n/</u>	25 METERS	6	72	<u> </u>
			5	25 METERS	5	60	
			111	26 METERS	6	72	3
			<u> 3</u>	26 METERS	6	72	3
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Ext	houst Tu.	Incl	PIPE SURVEY		PAGE <u>3</u> OF	10		
LINE NUMBER 53	35				3-89			LI
INSTRUMENT Judi	En 222	0	SERIAL NUMBER	5830	9			IN
	- +		OPERATOR	pm,	6-			DE
SOURCE NUMBER AND	VALUE TANK &	58	1055 D.D.M					SC
SOURCE RESPONSE AN		AM	246/270 -					SC
SOURCE RESPONSE AN			9531255 d	- 2				so
START OF SURVEY	ITE UF	DIA	READING LOCATION	Di cpm	rect _dpm/100cm ² _	Smearable dom/100cm ²		START
conta antel	conduct	1511	Ometer Top	1	72	33		المعربي وتسم
S. Wall gald			11 11 Bitten	6	72-	0		<u></u>
strackt Nte			In meter T	4	48	3		52
Nillall			11 /1 B	1	12	3		U.V.
			1 mother T	5	60	3		
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	•		1.5 metris T	3	36	0		
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Exhaust Tunnel PIPE SURVEY

LINE NUMBER 5	36		DAT	E 5-	3-59						
	1/1m 220	2 1)	SERIAL NUMBER 58309								
	435 4	- <u>'</u> ,	OPERATOR	2 4							
		1010	1255 2E.M								
SOURCE NUMBER AND			- 1000 -2		<u> </u>						
SOURCE RESPONSE AN			n5×1255 +2								
SOURCE RESPONSE AN	ID BACKGROUND	PM	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.								
	IIPL OF			Dii	ect dpm/100cπ2_	Smearable dpm/100cm ²					
START OF SURVEY	LINE	DIA/////_/_/_/_//////////	READING_LOCATION		36						
	<u>ronduit</u>	13	amaters: T 11 11 B	6	72	0					
the His and li			······································	3	36	3					
Cal Minister Harall			· · · · · · · · · · · · · · · · · · ·		12						
V Manta Minall			B	- <u>/</u>	36	0					
•				6	72	0					
	·		1.5.moto- T	7	84	6					
			R	4	48	0					
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C		1			PAGE 5 OF	10		· · · · · · · · · · · · · · · · · · ·	1 4. 5				PAGE 6 OF	10
<u> </u>	haust To	NNE	PIPE SURVEY		PAGE 5 OF	<i>¥ V</i>	·	Ex	haust 1	uninel	PIPE SURVEY			
	37	:	Di	FF 5-	-5-89			LINE NUMBER	538		DAT	TE 5-	8-89	
		220		5831			·	and the second	Alum 2	220	SERIAL NUMBER			
									3-4		OPERATOR R 1			
	DETECTOR 42 7 OPERATOR K MINE SOURCE NUMBER AND VALUE # 6868 1055 DP M								VALUE 7	-686				
μ <del></del>	OURCE RESPONSE AND BACKGROUND AM 250/261 0							SOURCE RESPONSE A			254/968	<u>P</u>		
	RESPONSE AND BACKGROUND PM 285/275 0 SOURCE RESPONSE AND BACKGROUND PM 250/265 3													
	· · · ·		· · · · · · · · · · · · · · · · · · ·							_	. f			(maarab)a
START OF SURVEY	LINE	DIA_	READING LOCATION	Di 	rect _dpm/100cm2	Smearable dpm/100cm ²	STAR	T OF SURVEY	TIPE OF	DIA			rect Lapm/100cm ²	Smearable dpm/100cm-
Starto in 5	conduit	112	Ometero T	17	24	3		into in S. Vinil	Conduit	131	Ometers T		12	0
Wallendo			1, 11 B	1_	84	6	Lir-	Asin- N. Wall		-	<u> </u>	3	36	0
in N wall			5 meta T	5	60	0		*		· · · ·	knotes T	5	60	3
		·	n in B	/	12	0					<u> </u>	5	60	<u> </u>
			I meter T	-4	72	3					/ motor T	0	0	3
· · · · · · · · · · · · · · · · · · ·			" " B		48	6			<u></u>			4	74	
			1,5 metons T	3	24			<u>.</u>			1.5 Meters T	Lip	78	
			11 11 B		36	0	.				1/ // 2		/ 0	
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Ex	haust T	induced	PIPE SURVEY		PAGE 6 01	10
			· · · · · · · · · · · · · · · · · · ·			
	538				-8-89	
	dem 2:	20	SERIAL NUMBER		309	
DETECTOR 4	3-4		OPERATOR R IN	1/4-		
SOURCE NUMBER AND	VALUE 7	626	2 10550			
SOURCE RESPONSE AN	D BACKGROUND	AM	254/268	3		
SOURCE RESPONSE AN	ID BACKGROUND	PM	250/265			
	TIPE OF			D-	rect 2	Smearable
START OF SURVEY	LINE	DIA_	READING_LOCATION	cpm	_apm/100cm4	dom/100cm-
atrato in S. Mall	Conduit	13"	Ometers T		12	0
Inter N. Wall			<u> </u>	3	36	0
*.			LANDE T	5	60	3
·			<u>()</u>	5	60	0
			/ moton T	$-\underline{0}$	0	3
			11 11 B		2.4	
		·	1.5 Meters T	·	48	0
			11 /1 P	Luga	48	3
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(Tr	houst T.	NNel I	PIPE SURVEY			PAGE 7 OF	10		Ex	haust Tu	NNel	PIPE SURVEY		PAGE 8 C	<u>= 10</u>			
									· · · · · · · · · · · · · · · · · · ·	(				0.00				
LINE NUMBER						9-22			LINE NUMBER 540 DATE 5-8-29									
INSTRUMENT	Elem 2	220							INSTRUMENT ludlum 3290 SERIAL NUMBER 58309									
DETECTOR 43-44 OPERATOR RAINE									DETECTOR 43-4 OPERATOR RMH									
SOURCE NUMBER AND VALUE SE SURCE NUMBER AND VALUE SE SURCE NUMBER AND VALUE								SOURCE NUMBER AND			1055 ppm							
SOURCE RESPONSE AND BACKGROUND AM 254/268						·		SOURCE RESPONSE AM			<u>914/268</u>	3						
SOURCE RESPONSE ANI	D BACKGROUND	PM	250/2	65					SOURCE RESPONSE A	ID BACKGROUND	PM	250/265	يانه معيني	i 				
START OF SURVEY	TIPE OF	DIA		[ON_	Di 	rect2	Smearable dpm/100cm-	<b></b>	START OF SURVEY	IIPE OF	DIA_	READING LOCATION	Di Cpm	rect Ldpm/100cm2	Smearable dom/100cm-			
starts in S.	Conduit	15"	Ometino	_	û.4	48	0		starte in	Conduct	1-1-11	1 Ameters T	4	48	0			
Wallends in			1. 2.	8	3	36	0		5. Wallends			<u> 11 11 B</u>	/	12	0			
N. Wall			5. K atta	7	3	36	0		in N. wall			Smetter T	5	24	3			
			11 22	13	<u> </u>	0	6		· · ·			11 11 B	3	36	0			
			1 mit	-7	3	33	0					I motor T	11	3.6	0			
			2. 2.4	<i>.</i> ,	6	72-	0				. <u></u>	11 11 B	3	36	0			
			1.4 1. 1		3	36	3					1.5 meter T		12	· ······			
			11 11	E	5	<u> </u>	3			· ·		<u> 10 11 B</u>	4	48	0			
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	Exhaust 7	I	DTDE CIIDUEV		PAGE 9 OF	10	:	E. I.		unel	PIPE SURVEY	Ξ	AGE /O OF	- /0
	Exhaust 1	unnel	PIPE SURVEI	· · · · · · · · · · · · · · · · · · ·			2	/~X_/	aust two					
LINE NUMBER	541		DA	TE 5	-8-89			LINE NUMBER 5	42		DAT		8-29	
INSTRUMENT		122	والمرابقة والمحاكلة فترابيه والمجار المتناك والمتحرب والهول ويجداه		09			INSTRUMENT Le	Ale m	220	7) SERIAL NUMBER	$F_{i} \in C$		
	43-4		OPERATOR	R 127	14			DETECTOR 43	3 - 4			Rinj	U	
SOURCE NUMBER	AND VALUE 7	£686	68 10551					SOURCE NUMBER AND	VALUE 7	69.69				
SOURCE RESPONSE AND BACKGROUND AM 254/268 3								SOURCE RESPONSE AN			25-1252	2		***
SOURCE RESPONSI	E AND BACKGROUN	D PM	250/265		3			SOURCE RESPONSE AN	ID BACKGROUND	PM	250/215			·
	Correction	on toe			rest of	Smearable	-		TIFL OF	1 1		Dir	dpm/100cm ²	Smearable dpm/100cm-
START OF SURVEY	LINE	DIA_	READING LOCATION		rect _dpm/100cm ²		_	START OF SURVEY	LINE	DIA_	READING_LOCATION	the second value of the second	<u>dpm/100cm4_</u> 60	dpm/100cm ²
Starts In	Black	4.11	0 miticat	$\frac{12}{14}$	72	0		Mall code	Clab dai	2"	0 miting T		84	0
5. W. 10	irin		-Smither T	8	48	3		in NOTL Wall	en and a day		to meters T	7	84	0
Ninta N.	10 Pipe		11 11 B	13	78	3		UN NI THE WALL			11 11 B	/	12	3
IV INLATIO	<u>**a.t.</u>	·	I meter T	9	54	3		<u></u>			1.matin T	4	48	3
			11 11 B	3	18	3					11 11 3	/	12	0
	· ·		15 meters T	10	60	3			,		1.5 mitters T	5	60	0
			11 . 11 B	4	24	0					·/ // B		12	3
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