

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION II

DATE: SEP 28 1995

SUBJECT: Report for Tutu Well Survey
FROM: *Barbara A. Finazzo*
Barbara A. Finazzo, Chief
Technical Support Branch

TO: Caroline Kwan-Appelman
ERRD/NYCSB

Attached please find the data report for Project #160, Tutu Well. These data include the results of six solid samples for PCB and VOA (volatile organic) analyses.

If you have any questions, please feel free to contact either myself at (908) 321-6706 or John Birri at (908) 906-6886.

Attachment

LAB DATA MANAGEMENT SYSTEM - REGION II
COMPLETED PROJECT APPROVAL

REPORT DATE 95/09/26

PROJECT NUMBER

PROJECT DATE

PROJECT NAME

160

95/08/30

TUTU WELL

g 17

APPROVED

Barbara B. Searcy
9/27/95

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

EXPLANATIONS OF REMARK CODES

REMARK CODE	EXPLANATION
B	RESULTS BASED UPON COLONY COUNTS OUTSIDE ACCEPTABLE RANGE
J	ESTIMATED VALUE
K	ACTUAL VALUE KNOWN TO BE LESS THAN VALUE GIVEN
L	ACTUAL VALUE KNOWN TO BE GREATER THAN VALUE GIVEN
N	NO OBSERVABLE EFFECT CONCENTRATION < 0.3%
O	SAMPLED BUT NOT ANALYZED DUE TO LAB ACCIDENT
T	REPORTED VALUE LESS THAN CRITERIA OF DETECTION
U	REPORTING LIMIT

QA/QC REMARK CODES

CODE	EXPLANATION
QD	ACCURACY CHECK SAMPLE ABOVE UPPER ACCEPTANCE LIMIT
QE	ACCURACY CHECK SAMPLE BELOW LOWER ACCEPTANCE LIMIT
QF	PRECISION OF CALIBRATION CURVE LESS THAN ACCEPTANCE CRITERIA
QJ	ESTIMATED DETECTION LIMIT DUE TO INTERFERENCE
QG	CONTINUING CALIBRATION CHECK DOES NOT MEET ACCEPTANCE CRITERIA
QS	SPIKE RECOVERIES ABOVE UPPER ACCEPTANCE LIMIT
QR	SPIKE RECOVERIES BELOW LOWER ACCEPTANCE LIMIT
QP	SAMPLE REPLICATE PRECISION DOES NOT MEET ACCEPTANCE CRITERIA
QH	RECOMMENDED HOLDING TIMES EXCEEDED
QT	TENTATIVELY IDENTIFIED COMPOUND
QM	PRESENCE OF MATERIAL VERIFIED BUT NOT QUANTIFIED
QB	BLANK CONTAMINATED BY ANALYTE IN EXCESS OF ACCEPTANCE CRITERIA
QQ	SAMPLE IMPROPERLY PRESERVED

LOCATION CODES FOR IDENTIFICATION OF SAMPLING POINTS AT INDUSTRIAL /
SANITARY FACILITIES, LANDFILLS, HAZARDOUS WASTE SITES.

CODE NUMBERS	SAMPLING POINTS
1001 - 1050	EFFLUENT PIPE NUMBER 001 TO 050
1051 - 1099	OTHER EFFLUENTS SUCH AS COOLING TOWER DISCHARGE, DISCHARGE FROM HOLDING PONDS, ETC...
1100 - 1249	IN PLANT SAMPLES
1435 - 1454	SEPARATE INFLUENT POINTS/WATER SOURCES
15XX	INFLUENT ASSOCIATED WITH EFFLUENT 10XX
2000	BLANK FOR VOLATILE ORGANICS
3000 - 3099	GROUND WATER FROM WELL 01 TO 99
3100 - 3199	SEDIMENT SAMPLE (WATER BOTTOM)
3200 - 3299	SOIL SAMPLE
3300 - 3399	STREAM WATER SAMPLE
3400 - 3499	LAGOON SAMPLE
3500 - 3599	STORAGE TANK SAMPLE
3600 - 3699	LEACHATE SAMPLE
3700 - 3799	OTHER TYPE SAMPLE

TUT 007 2290

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARNO	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
TUTU1	95/08/30	1030							
DEPTH: 0000 SUBSTRATE: SOIL									
DESCRIPTION: COLLECTED 5FT SOUTH FROM PAINTING IN THE GARDEN BLDG + 3.5FT EAST									
			107142	34421	METHYL CHLORIDE	UG/KG		11 U	
				34416	METHYL BROMIDE	UG/KG		11 U	
				34495	VINYL CHLORIDE	UG/KG		11 U	
				34314	CHLOROETHANE	UG/KG		11 U	
				34426	METHYLENE CHLORIDE	UG/KG		11 U	
				75059	ACETONE	UG/KG		27 U	
				78544	CARBON DISULFIDE	UG/KG		11 U	
				34504	1,1-DICHLOROETHYLENE	UG/KG		11 U	
				34499	1,1-DICHLOROETHANE	UG/KG		11 U	
				99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		11 U	
				34318	CHLOROFORM	UG/KG		11 U	
				75078	2-BUTANONE	UG/KG		11 U	
				34534	1,2-DICHLOROETHANE	UG/KG		11 U	
				34509	1,1,1-TRICHLOROETHANE	UG/KG		11 U	
				34299	CARBON TETRACHLORIDE	UG/KG		11 U	
				34330	DICHLOROBROMOMETHANE	UG/KG		11 U	
				34544	1,2-DICHLOROPROPANE	UG/KG		11 U	
				34702	CIS-1,3-DICHLOROPROPENE	UG/KG		11 U	
				34487	TRICHLOROETHYLENE	UG/KG		11 U	
				34237	BENZENE	UG/KG		11 U	
				34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U	
				34514	1,1,2-TRICHLOROETHANE	UG/KG		11 U	
				34309	CHLORODIBROMOMETHANE	UG/KG		11 U	
				75166	2-HEXANONE	UG/KG		11 U	
				75169	4-METHYL-2-PENTANONE	UG/KG		11 U	
				34290	BROMOFORM	UG/KG		11 U	
				34478	TETRACHLOROETHYLENE	UG/KG		11 U	
				34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U	
				34483	TOLUENE	UG/KG		11 U	
				34304	CHLOROBENZENE	UG/KG		11 U	
				34374	ETHYLBENZENE	UG/KG		11 U	
				99904	STYRENE	UG/KG		11 U	
				73382	XYLENES (TOTAL)	UG/KG		11 U	
				39514	AROCLOR 1016	UG/KG		36 U	
				73155	AROCLOR 1221	UG/KG		74 U	
				39495	AROCLOR 1232	UG/KG		36 U	
				39499	AROCLOR 1242	UG/KG		36 U	
				39503	AROCLOR 1248	UG/KG		36 U	
				39507	AROCLOR 1254	UG/KG		36 U	
				39511	AROCLOR 1260	UG/KG		36 U	
				39511	AROCLOR 1262	UG/KG		36 U	

TUT 007 2291

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARN0	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
TUTU2	95/08/30	1042							
DEPTH: 0000 SUBSTRATE: SOIL									
DESCRIPTION: COLLECTED 12FT SOUTH FROM PAINTING IN THE GARDEN BLDG + 5.3IN EAST									
			107143	34421	METHYL CHLORIDE	UG/KG		11 U	
				34416	METHYL BROMIDE	UG/KG		11 U	
				34495	VINYL CHLORIDE	UG/KG		11 U	
				34314	CHLOROETHANE	UG/KG		11 U	
				34426	METHYLENE CHLORIDE	UG/KG		11 U	
				75059	ACETONE	UG/KG		11 U	
				78544	CARBON DISULFIDE	UG/KG		11 U	
				34504	1,1-DICHLOROETHYLENE	UG/KG		11 U	
				34499	1,1-DICHLOROETHANE	UG/KG		11 U	
				99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		11 U	
				34318	CHLOROFORM	UG/KG		11 U	
				75078	2-BUTANONE	UG/KG		11 U	
				34534	1,2-DICHLOROETHANE	UG/KG		11 U	
				34509	1,1,1-TRICHLOROETHANE	UG/KG		11 U	
				34299	CARBON TETRACHLORIDE	UG/KG		11 U	
				34330	DICHLOROBROMOMETHANE	UG/KG		11 U	
				34544	1,2-DICHLOROPROPANE	UG/KG		11 U	
				34702	CIS-1,3-DICHLOROPROPENE	UG/KG		11 U	
				34487	TRICHLOROETHYLENE	UG/KG		11 U	
				34237	BENZENE	UG/KG		11 U	
				34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U	
				34514	1,1,2-TRICHLOROETHANE	UG/KG		11 U	
				34309	CHLORODIBROMOMETHANE	UG/KG		11 U	
				75166	2-HEXANONE	UG/KG		11 U	
				75169	4-METHYL-2-PENTANONE	UG/KG		11 U	
				34290	BROMOFORM	UG/KG		11 U	
				34478	TETRACHLOROETHYLENE	UG/KG		11 U	
				34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U	
				34483	TOLUENE	UG/KG		11 U	
				34304	CHLOROBENZENE	UG/KG		11 U	
				34374	ETHYLBENZENE	UG/KG		11 U	
				99904	STYRENE	UG/KG		11 U	
				73382	XYLENES (TOTAL)	UG/KG		11 U	
				39514	AROCLOR 1016	UG/KG		33 U	
				73155	AROCLOR 1221	UG/KG		67 U	
				39495	AROCLOR 1232	UG/KG		33 U	
				39499	AROCLOR 1242	UG/KG		33 U	
				39503	AROCLOR 1248	UG/KG		33 U	
				39507	AROCLOR 1254	UG/KG		33 U	
				39511	AROCLOR 1260	UG/KG		33 U	
				39511	AROCLOR 1262	UG/KG		33 U	

TUT 007 2292

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY
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TUTU3 95/08/30 1045
 DEPTH: 0000 SUBSTRATE: SOIL
 DESCRIPTION: DUP. SAMEPLE

LABNO	PARN0	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
107144	34421	METHYL CHLORIDE	UG/KG		11 U	
	34416	METHYL BROMIDE	UG/KG		11 U	
	34495	VINYL CHLORIDE	UG/KG		11 U	
	34314	CHLOROETHANE	UG/KG		11 U	
	34426	METHYLENE CHLORIDE	UG/KG		11 U	
	75059	ACETONE	UG/KG		11 U	
	78544	CARBON DISULFIDE	UG/KG		11 U	
	34504	1,1-DICHLOROETHYLENE	UG/KG		11 U	
	34499	1,1-DICHLOROETHANE	UG/KG		11 U	
	99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		11 U	
	34318	CHLOROFORM	UG/KG		11 U	
	75078	2-BUTANONE	UG/KG		11 U	
	34534	1,2-DICHLOROETHANE	UG/KG		11 U	
	34509	1,1,1-TRICHLOROETHANE	UG/KG		11 U	
	34299	CARBON TETRACHLORIDE	UG/KG		11 U	
	34330	DICHLOROBROMOMETHANE	UG/KG		11 U	
	34544	1,2-DICHLOROPROPANE	UG/KG		11 U	
	34702	CIS-1,3-DICHLOROPROPENE	UG/KG		11 U	
	34487	TRICHLOROETHYLENE	UG/KG		11 U	
	34237	BENZENE	UG/KG		11 U	
	34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		11 U	
	34514	1,1,2-TRICHLOROETHANE	UG/KG		11 U	
	34309	CHLORODIBROMOMETHANE	UG/KG		11 U	
	75166	2-HEXANONE	UG/KG		11 U	
	75169	4-METHYL-2-PENTANONE	UG/KG		11 U	
	34290	BROMOFORM	UG/KG		11 U	
	34478	TETRACHLOROETHYLENE	UG/KG		11 U	
	34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		11 U	
	34483	TOLUENE	UG/KG		11 U	
	34304	CHLOROBENZENE	UG/KG		11 U	
	34374	ETHYLBENZENE	UG/KG		11 U	
	99904	STYRENE	UG/KG		11 U	
	73382	XYLENES (TOTAL)	UG/KG		11 U	
	39514	AROCLOR 1016	UG/KG		36 U	
	73155	AROCLOR 1221	UG/KG		74 U	
	39495	AROCLOR 1232	UG/KG		36 U	
	39499	AROCLOR 1242	UG/KG		36 U	
	39503	AROCLOR 1248	UG/KG		36 U	
	39507	AROCLOR 1254	UG/KG		36 U	
	39511	AROCLOR 1260	UG/KG		36 U	
	39511	AROCLOR 1262	UG/KG		36 U	

TUT 007 2293

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARNO	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
TUTU4	95/08/30	1100							
DEPTH: 0000 SUBSTRATE: SOIL									
DESCRIPTION: 2FT SOUTH FROM WALL OF THE BUSH									
BATH & TEA SHOPPO & 4.3FT WEST									
			107145	34421	METHYL CHLORIDE	UG/KG		12 U	
				34416	METHYL BROMIDE	UG/KG		12 U	
				34495	VINYL CHLORIDE	UG/KG		12 U	
				34314	CHLOROETHANE	UG/KG		12 U	
				34426	METHYLENE CHLORIDE	UG/KG		12 U	
				75059	ACETONE	UG/KG		12 U	
				78544	CARBON DISULFIDE	UG/KG		12 U	
				34504	1,1-DICHLOROETHYLENE	UG/KG		12 U	
				34499	1,1-DICHLOROETHANE	UG/KG		12 U	
				99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		12 U	
				34318	CHLOROFORM	UG/KG		12 U	
				75078	2-BUTANONE	UG/KG		12 U	
				34534	1,2-DICHLOROETHANE	UG/KG		12 U	
				34509	1,1,1-TRICHLOROETHANE	UG/KG		12 U	
				34299	CARBON TETRACHLORIDE	UG/KG		12 U	
				34330	DICHLOROBROMOMETHANE	UG/KG		12 U	
				34544	1,2-DICHLOROPROPANE	UG/KG		12 U	
				34702	CIS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34487	TRICHLOROETHYLENE	UG/KG		12 U	
				34237	BENZENE	UG/KG		12 U	
				34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34514	1,1,2-TRICHLOROETHANE	UG/KG		12 U	
				34309	CHLORODIBROMOMETHANE	UG/KG		12 U	
				75166	2-HEXANONE	UG/KG		12 U	
				75169	4-METHYL-2-PENTANONE	UG/KG		12 U	
				34290	BROMOFORM	UG/KG		12 U	
				34478	TETRACHLOROETHYLENE	UG/KG		12 U	
				34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		12 U	
				34483	TOLUENE	UG/KG		12 U	
				34304	CHLOROBENZENE	UG/KG		12 U	
				34374	ETHYLBENZENE	UG/KG		12 U	
				99904	STYRENE	UG/KG		12 U	
				73382	XYLENES (TOTAL)	UG/KG		12 U	
				39514	AROCLOR 1016	UG/KG		36 U	
				73155	AROCLOR 1221	UG/KG		74 U	
				39495	AROCLOR 1232	UG/KG		36 U	
				39499	AROCLOR 1242	UG/KG		36 U	
				39503	AROCLOR 1248	UG/KG		36 U	
				39507	AROCLOR 1254	UG/KG		36 U	
				39511	AROCLOR 1260	UG/KG		36 U	
				39511	AROCLOR 1262	UG/KG		36 U	

TUT 007 2294

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARNO	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
TUTU5	95/08/30	1120							
DEPTH: 0000 SUBSTRATE: SOIL									
DESCRIPTION: 5 INCHES EAST OF TILLET & ART									
GALLERY (NEAR SILK SCREEN DRAIN)									
			107146	34421	METHYL CHLORIDE	UG/KG		12 U	
				34416	METHYL BROMIDE	UG/KG		12 U	
				34495	VINYL CHLORIDE	UG/KG		12 U	
				34314	CHLOROETHANE	UG/KG		12 U	
				34426	METHYLENE CHLORIDE	UG/KG		12 U	
				75059	ACETONE	UG/KG		12 U	
				78544	CARBON DISULFIDE	UG/KG		12 U	
				34504	1,1-DICHLOROETHYLENE	UG/KG		12 U	
				34499	1,1-DICHLOROETHANE	UG/KG		12 U	
				99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		12 U	
				34318	CHLOROFORM	UG/KG		12 U	
				75078	2-BUTANONE	UG/KG		12 U	
				34534	1,2-DICHLOROETHANE	UG/KG		12 U	
				34509	1,1,1-TRICHLOROETHANE	UG/KG		12 U	
				34299	CARBON TETRACHLORIDE	UG/KG		12 U	
				34330	DICHLOROBROMOMETHANE	UG/KG		12 U	
				34544	1,2-DICHLOROPROPANE	UG/KG		12 U	
				34702	CIS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34487	TRICHLOROETHYLENE	UG/KG		12 U	
				34237	BENZENE	UG/KG		12 U	
				34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34514	1,1,2-TRICHLOROETHANE	UG/KG		12 U	
				34309	CHLORODIBROMOMETHANE	UG/KG		12 U	
				75166	2-HEXANONE	UG/KG		12 U	
				75169	4-METHYL-2-PENTANONE	UG/KG		12 U	
				34290	BROMOFORM	UG/KG		12 U	
				34478	TETRACHLOROETHYLENE	UG/KG		12 U	
				34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		12 U	
				34483	TOLUENE	UG/KG		12 U	
				34304	CHLOROBENZENE	UG/KG		12 U	
				34374	ETHYLBENZENE	UG/KG		12 U	
				99904	STYRENE	UG/KG		12 U	
				73382	XYLENES (TOTAL)	UG/KG		12 U	
				39514	AROCLOR 1016	UG/KG		40 U	
				73155	AROCLOR 1221	UG/KG		80 U	
				39495	AROCLOR 1232	UG/KG		40 U	
				39499	AROCLOR 1242	UG/KG		40 U	
				39503	AROCLOR 1248	UG/KG		40 U	
				39507	AROCLOR 1254	UG/KG		40 U	
				39511	AROCLOR 1260	UG/KG		40 U	
				39511	AROCLOR 1262	UG/KG		40 U	

TUT 007 2295

COMPLETED ANALYSIS REPORT

REPORT DATE: 95/09/26

PROJECT NO: 160

PROJECT NAME: TUTU WELL

STATION NO	DATE FROM TO	TIME OF DAY	LABNO	PARN0	PARAMETER NAME	UNITS	CHEMISTRY	VALUE & REMARK	QA/QC REMARK
TUTU6	95/08/30	1140							
DEPTH: 0000	SUBSTRATE: SOIL								
DESCRIPTION: 3FT FROM SOUTHERN WALL IN DRAINAGE DITCH									
			107147	34421	METHYL CHLORIDE	UG/KG		12 U	
				34416	METHYL BROMIDE	UG/KG		12 U	
				34495	VINYL CHLORIDE	UG/KG		12 U	
				34314	CHLOROETHANE	UG/KG		12 U	
				34426	METHYLENE CHLORIDE	UG/KG		18 U	
				75059	ACETONE	UG/KG		19	
				78544	CARBON DISULFIDE	UG/KG		12 U	
				34504	1,1-DICHLOROETHYLENE	UG/KG		12 U	
				34499	1,1-DICHLOROETHANE	UG/KG		12 U	
				99999	TOTAL 1,2-DICHLOROETHYLENE	UG/KG		12 U	
				34318	CHLOROFORM	UG/KG		12 U	
				75078	2-BUTANONE	UG/KG		12 U	
				34534	1,2-DICHLOROETHANE	UG/KG		12 U	
				34509	1,1,1-TRICHLOROETHANE	UG/KG		12 U	
				34299	CARBON TETRACHLORIDE	UG/KG		12 U	
				34330	DICHLOROBROMOMETHANE	UG/KG		12 U	
				34544	1,2-DICHLOROPROPANE	UG/KG		12 U	
				34702	CIS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34487	TRICHLOROETHYLENE	UG/KG		12 U	
				34237	BENZENE	UG/KG		12 U	
				34697	TRANS-1,3-DICHLOROPROPENE	UG/KG		12 U	
				34514	1,1,2-TRICHLOROETHANE	UG/KG		12 U	
				34309	CHLORODIBROMOMETHANE	UG/KG		12 U	
				75166	2-HEXANONE	UG/KG		7 J	QM
				75169	4-METHYL-2-PENTANONE	UG/KG		21	
				34290	BROMOFORM	UG/KG		12 U	
				34478	TETRACHLOROETHYLENE	UG/KG		12 U	
				34519	1,1,2,2-TETRACHLOROETHANE	UG/KG		12 U	
				34483	TOLUENE	UG/KG		12 U	
				34304	CHLOROBENZENE	UG/KG		12 U	
				34374	ETHYLBENZENE	UG/KG		12 U	
				99904	STYRENE	UG/KG		12 U	
				73382	XYLENES (TOTAL)	UG/KG		12 U	
				39514	AROCLOR 1016	UG/KG		43 U	
				73155	AROCLOR 1221	UG/KG		87 U	
				39495	AROCLOR 1232	UG/KG		43 U	
				39499	AROCLOR 1242	UG/KG		43 U	
				39503	AROCLOR 1248	UG/KG		43 U	
				39507	AROCLOR 1254	UG/KG		43 U	
				39511	AROCLOR 1260	UG/KG		43 U	
				39511	AROCLOR 1262	UG/KG		43 U	

***** END OF PROJECT *****

TUT 007 2296