

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
CHESTER COUNTY WATER-QUALITY MONITORING PROJECT**

Ground-water samples were collected from selected wells in Chester County in August and September 2000 as part of the Chester County Ground-Water Quality Monitoring Program. The monitoring program began in 1980 with objectives that include providing data on ground-water quality (1) near suspected sources of contamination; (2) in areas of different land use or different underlying geology; (3) for specific contaminants or constituents countywide; and (4) in watersheds as part of regional assessment. Samples typically are collected each summer. Other data for this project can be found in the annual Water Data Report PA-00-2.

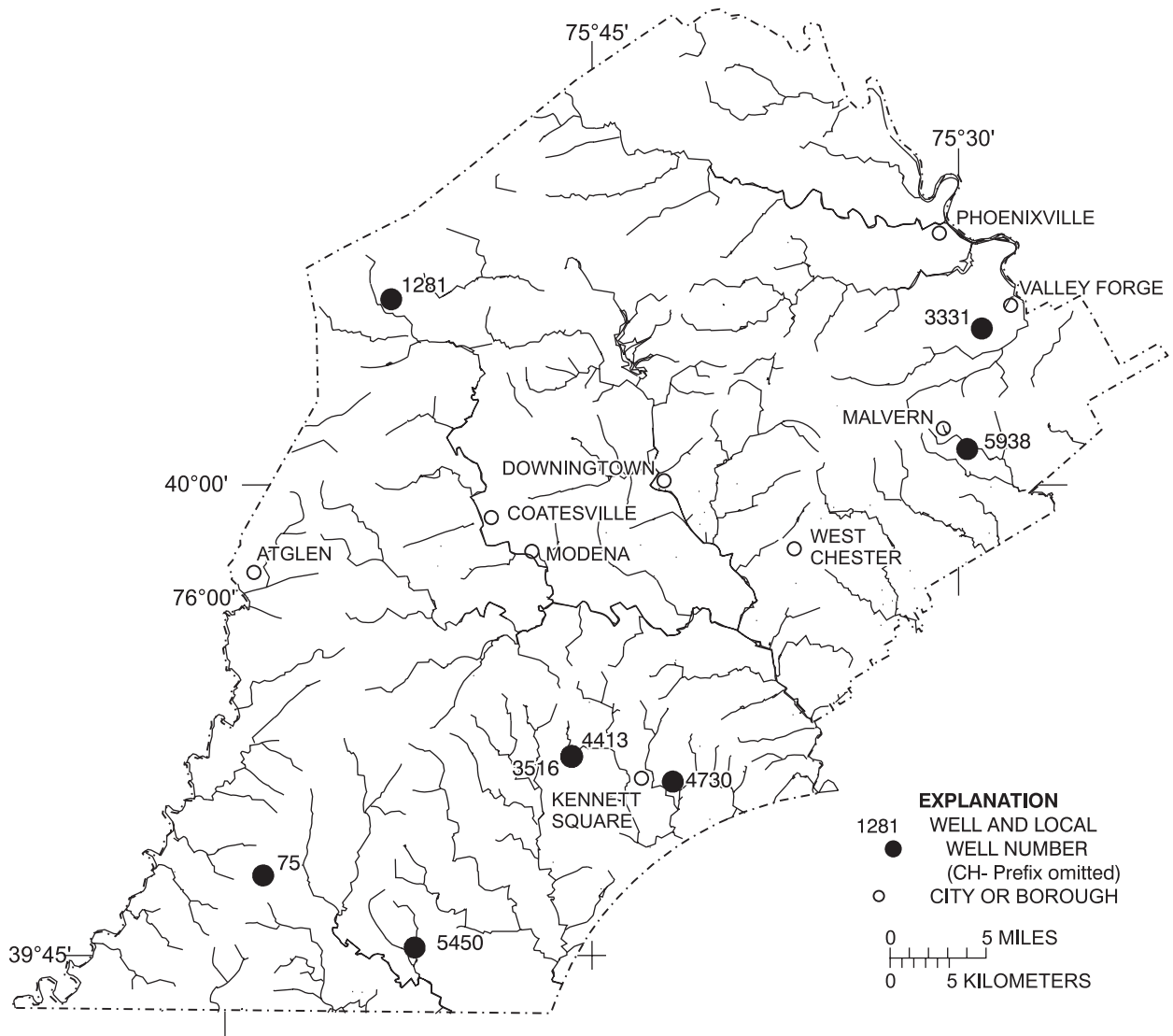


Figure 12.--Locations of selected ground-water well sites in the Chester County water-quality monitoring project.

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
CHESTER COUNTY WATER-QUALITY MONITORING PROJECT**

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL IDENTIFIER	STATION	NUMBER	DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER)	AGENCY COLLECTING SAMPLE (CODE NUMBER)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	OXYGEN, DIS-SOLVED (MG/L) (00300)
CH 75	394735075580901		08-08-00	1010	80020	1028	509	400.00	--	5.7
CH 1281	400538075533001		08-07-00	1110	80020	1028	660	94.00	--	6.2
CH 3331	400507075292401		08-09-00	1300	80020	1028	615	120.00	--	8.5
CH 3516	395131075454401		08-24-00	1015	80020	1028	383	150.00	--	E7.4
CH 4413	395130075454501		08-03-00	1510	80020	1028	385	145.00	--	8.1
CH 4413	395130075454501		08-24-00	1115	1028	1028	385	145.00	--	--
CH 4730	395048075413601		08-03-00	1225	80020	1028	332	160.00	--	--
CH 5450	394527075515601		09-11-00	0950	80020	1028	265	--	--	.2
CH 5450	394527075515601		09-13-00	1200	80020	1028	265	--	--	--
CH 5938	400121075295401		09-13-00	1350	80020	1028	418	430.00	--	.2

LOCAL IDENTIFIER	DATE	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM) (90095)	SPE-CIFIC CON-DUCT-ANCE LAB (µS/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
CH 75	08-08-00	5.6	5.6	226	227	--	14.1	13.6	7.62	2.5
CH 1281	08-07-00	5.9	6.1	260	248	30.0	12.2	27.4	6.96	1.7
CH 3331	08-09-00	4.2	4.3	232	233	--	13.1	14.0	2.46	3.5
CH 3516	08-24-00	7.2	7.5	762	730	27.0	13.2	71.9	44.5	2.5
CH 4413	08-03-00	7.3	7.4	727	730	--	16.3	58.7	36.2	2.7
CH 4413	08-24-00	7.4	--	--	701	27.0	14.8	--	--	--
CH 4730	08-03-00	6.8	7.0	829	822	--	13.4	103	25.6	8.1
CH 5450	09-11-00	6.9	7.4	95	101	--	13.3	5.53	2.54	1.8
CH 5450	09-13-00	--	--	--	--	--	--	--	--	--
CH 5938	09-13-00	10.4	10.7	266	298	--	13.0	26.2	.17	2.0

LOCAL IDENTIFIER	DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD (MG/L AS CACO3) (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN, AM-MONIA + DIS-SOLVED (MG/L AS N) (00623)	NITRO-GEN, AM-MONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
CH 75	08-08-00	12.1	16	33.0	<.1	16.6	12.1	<.10	<.020	4.75
CH 1281	08-07-00	7.7	30	18.4	<.1	24.5	17.1	<.10	<.020	9.93
CH 3331	08-09-00	11.4	--	33.9	.1	4.7	19.2	.14	<.020	5.98
CH 3516	08-24-00	11.1	268	34.0	<.1	13.3	42.6	E.10	<.020	11.1
CH 4413	08-03-00	19.1	198	58.7	<.1	14.3	17.7	E.10	<.020	5.01
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	11.5	119	51.5	<.1	14.7	165	.26	<.020	11.8
CH 5450	09-11-00	8.1	30	2.6	.2	29.6	7.9	--	<.020	<.050
CH 5450	09-13-00	--	--	--	--	--	--	--	--	--
CH 5938	09-13-00	3.9	36	25.2	<.1	M	E.2	--	<.020	<.050

LOCAL IDENTIFIER	DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	ALUM-INUM, DIS-SOLVED (µG/L AS AL) (01106)	ANTI-MONY, DIS-SOLVED (µG/L AS SB) (01095)	ARSENIC DIS-SOLVED (µG/L AS AS) (01000)	BARIUM, DIS-SOLVED (µG/L AS BA) (01005)
CH 75	08-08-00	<.010	.019	.013	.53	--	--	--	--	--
CH 1281	08-07-00	<.010	E.004	<.010	.35	--	--	--	--	--
CH 3331	08-09-00	<.010	<.006	<.010	2.2	--	--	--	--	--
CH 3516	08-24-00	<.010	.007	<.010	1.3	--	--	--	--	--
CH 4413	08-03-00	<.010	.006	<.010	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	1.01	<.006	<.010	--	--	--	--	--	--
CH 5450	09-11-00	<.010	--	.030	E.23	--	<1	<1	--	32
CH 5450	09-13-00	--	--	--	--	--	--	--	--	--
CH 5938	09-13-00	<.010	--	<.010	E.19	--	<1	<1	<2.0	20



**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
CHESTER COUNTY WATER-QUALITY MONITORING PROJECT**

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL IDENTIFIER	DATE	LIN-URON WATER	MALA-THION, DIS-SOLVED	METHYL AZIN-PHOS WAT FLT	METHYL PARA-THION WAT FLT	METO-LACHLOR WATER DISSOLV	METRI-BUZIN WATER DISSOLV	MOL-INATE WATER	NAPROP-AMIDE WATER	P,P'DDE DISSOLV
		0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	E.001
CH 5450	09-11-00	<.002	<.005	<.001	<.006	<.002	<.004	<.004	<.003	<.006
CH 5450	09-13-00	--	--	--	--	--	--	--	--	--
CH 5938	09-13-00	--	--	--	--	--	--	--	--	--
LOCAL IDENTIFIER	DATE	PARA-THION, DIS-SOLVED	PEB-ULATE WATER FILTRD	PENDI-ALIN WAT FLT	PER-METHRIN CIS WAT FLT	PHORATE WATER FLTRD	PRO-METON, WATER, DISS, REC	PRON-AMIDE WATER FLTRD	PROPA-CHLOR, WATER, DISS, REC	PRO-PANIL WATER FLTRD
		0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
CH 5450	09-11-00	<.004	<.004	<.004	<.005	<.002	<.018	<.003	<.007	<.004
CH 5450	09-13-00	--	--	--	--	--	--	--	--	--
CH 5938	09-13-00	--	--	--	--	--	--	--	--	--
LOCAL IDENTIFIER	DATE	PRO-PARGITE WATER FLTRD	SI-MAZINE, WATER, DISS, REC	TEBU-THIURON WATER FLTRD	TER-BACIL WATER FLTRD	TER-BUFOS WATER FLTRD	THIO-BENCARB WATER FLTRD	TRIAL-LATE WATER FLTRD	TRI-FLUR-ALIN WAT FLT	1,1,1-TRI-CHLORO-ETHANE TOTAL
		0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)	0.7 µ GF, REC (µG/L)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--
CH 5450	09-11-00	<.013	<.005	<.010	<.007	<.013	<.002	<.001	<.002	--
CH 5450	09-13-00	--	--	--	--	--	--	--	--	<.10
CH 5938	09-13-00	--	--	--	--	--	--	--	--	<.10
LOCAL IDENTIFIER	DATE	1,1-DI-CHLORO-ETHANE TOTAL	1,1-DI-CHLORO-ETHYL-ENE TOTAL	1,2-DI-CHLORO-ETHANE TOTAL	1,2-DI-CHLORO-PROPANE TOTAL	TRANS-1,2-DI-CHLORO-ETHENE TOTAL	BENZENE 1,3-DI-CHLORO-WATER UNFLTRD REC	BENZENE 14BRFL-SURROG VOC UNFLTRD REC	BENZENE 1,4-DI-CHLORO-WATER UNFLTRD REC	BENZENE O-DI-CHLORO-WATER UNFLTRD REC
		(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	(µG/L)	PERCENT	(µG/L)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	--	--	--	--	--	--	--	--	--
CH 5450	09-11-00	--	--	--	--	--	--	--	--	--
CH 5450	09-13-00	<.10	<.10	<.2	<.10	<.10	<.10	97	<.10	<.10
CH 5938	09-13-00	<.10	<.10	<.2	<.10	<.10	<.10	97	<.10	<.10

**ANALYSIS OF SAMPLES COLLECTED AT SPECIAL-STUDY SITES  
CHESTER COUNTY WATER-QUALITY MONITORING PROJECT**

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

LOCAL IDENT- I- FIER	DATE	BENZENE TOTAL (µG/L) (34030)	BROMO-FORM TOTAL (µG/L) (32104)	CARBON TETRA-CHLO- RIDE TOTAL (µG/L) (32102)	CHLORO- BENZENE TOTAL (µG/L) (34301)	CHLORO- DI- BROMO- METHANE TOTAL (µG/L) (32105)	CHLORO- FORM WATER TOTAL (µG/L) (32106)	CIS-1,2 -DI- CHLORO- ETHENE WATER TOTAL (µG/L) (77093)	BROMO- DI- CHLORO- METHANE TOTAL (µG/L) (32101)	DI- CHLORO- DI- FLUORO- METHANE TOTAL (µG/L) (34668)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	--	--	--	--	--	--	--	--	--
CH 5450	09-11-00	--	--	--	--	--	--	--	--	--
CH 5450	09-13-00	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2
CH 5938	09-13-00	<.10	<.20	<.20	<.10	<.2	<.10	<.10	<.10	<.2

LOCAL IDENT- I- FIER	DATE	DI-ISO- PROPYL- ETHER, WATER, UNFLTRD RECOVER (µG/L) (81577)	ETHANE 12DICL SURROG VOC UNFLTRD REC PERCENT (99832)	ETHER ETHYL WATER UNFLTRD RECOVER (µG/L) (81576)	ETHER TERT- BUTYL METHYL UNFLTRD RECOVER (µG/L) (50004)	ETHER TERT- PENTYL METHYL UNFLTRD RECOVER (µG/L) (50005)	ETHYL- BENZENE TOTAL (µG/L) (34371)	FREON- 113 WATER UNFLTRD REC (µG/L) (77652)	METHYL TERT- BUTYL ETHER WAT UNF REC (µG/L) (78032)	METHYL ENE CHLO- RIDE TOTAL (µG/L) (34423)
CH 75	08-08-00	--	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--	--
CH 4730	08-03-00	--	--	--	--	--	--	--	--	--
CH 5450	09-11-00	--	--	--	--	--	--	--	--	--
CH 5450	09-13-00	<.2	113	<.2	<.10	<.2	<.10	<.10	E.1	<.2
CH 5938	09-13-00	<.2	116	<.2	<.10	<.2	<.10	<.10	<.2	<.2

LOCAL IDENT- I- FIER	DATE	META/ PARA- XYLENE WATER UNFLTRD REC (µG/L) (85795)	O- XYLENE WATER WHOLE TOTAL (µG/L) (77135)	STYRENE TOTAL (µG/L) (77128)	TETRA- CHLORO- ETHYL- ENE TOTAL (µG/L) (34475)	TOLUENE D8 SURROG VOC UNFLTRD REC PERCENT (99833)	TOLUENE TOTAL (µG/L) (34010)	TRI- CHLORO- ETHYL- ENE TOTAL (µG/L) (39180)	TRI- CHLORO- FLUORO- METHANE TOTAL (µG/L) (34488)
CH 75	08-08-00	--	--	--	--	--	--	--	--
CH 1281	08-07-00	--	--	--	--	--	--	--	--
CH 3331	08-09-00	--	--	--	--	--	--	--	--
CH 3516	08-24-00	--	--	--	--	--	--	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--
CH 4730	08-03-00	--	--	--	--	--	--	--	--
CH 5450	09-11-00	--	--	--	--	--	--	--	--
CH 5450	09-13-00	<.20	<.10	<.10	<.1	97	.11	<.10	<.20
CH 5938	09-13-00	<.20	<.10	<.10	<.1	99	.40	<.10	<.20

LOCAL IDENT- I- FIER	DATE	VINYL CHLO- RIDE TOTAL (µG/L) (39175)	RADON 222 TOTAL (PCI/L) (82303)	RN-222 2 SIGMA WATER, WHOLE, TOTAL, (PCI/L) (76002)	URANIUM NATURAL DIS- SOLVED (µG/L) AS U (22703)	SAMPLE VOLUME SCHED- ULE 2001 (ML) (99856)	SET NUMBER LAB CODE 0114 (NO.) (99631)	SET NUMBER SCHED- ULE 2001 (NO.) (99818)	SET NUMBER VOC AN- ALYSIS (NO.) (99931)
CH 75	08-08-00	--	--	--	--	--	213.60	--	--
CH 1281	08-07-00	--	--	--	--	--	231.40	--	--
CH 3331	08-09-00	--	--	--	--	--	231.50	--	--
CH 3516	08-24-00	--	--	--	--	--	236.40	--	--
CH 4413	08-03-00	--	--	--	--	--	--	--	--
CH 4413	08-24-00	--	--	--	--	--	--	--	--
CH 4730	08-03-00	--	--	--	--	862	--	220.03	--
CH 5450	09-11-00	--	311	20	<1	943	245.50	257.01	--
CH 5450	09-13-00	<.2	--	--	--	--	--	--	915.70
CH 5938	09-13-00	<.2	42.0	14	<1	--	259.10	--	915.70