

TRENDS IN SELECTED WATER QUALITY PARAMETERS FOR THE HOUSTON SHIP CHANNEL

APPENDICES



TECHNICAL SECTION
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THE HOUSTON SHIP CHANNEL

APPENDICES

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APPENDIX A

Example of STORET/SAS PROGRAM

STORET RETRIEVAL DATE 92/02/21 - ECHO OF ORIGINAL REQUEST

00000010 PGM=RET,
00000020 BD=700101,
00000030 MORE=SAS,
00000040 PRT=NO,
00000050 A=21TXWQB,
00000060 S=10070800,
00000070 S=10060200,S=10060100,S=10050200,
00000080 S=10050100,
00000090 P=31616,
00000100 P=625,
00000110 P=615,
00000120 P=620,
00000130 P=610,
00000140 P=665,P=660,P=680,
00000160 SASPARMS=BEGIN,
00000170 DATA NEWDATA;
00000180 *
00000190 INCLUDE (FCFREAD)

PREVIOUS KEYWORD REPLACED BY -

* MACRO (FCFREAD) - SAS - READS STORET MORE=3,4 & SAS FCF FORMATS

* WRITTEN BY LEE MANNING LAST MODIFIED BY LEE MANNING 4/25/84

* FUNCTION -

BREAKDOWN A STORET MORE=4 (MORE=3 OR MORE=SAS) FCF FILE
INTO ITS ELEMENTS FOR SUBSEQUENT PROCESSING BY ANY SAS
PROCEDURES ;

OPTIONS NOSOURCE;

* REF - THE STORET ADVANCED RETRIEVAL MANUAL UNDER PROGRAM
'RET' FOR A DETAILED DESCRIPTION OF THE MORE=3,4 & SAS
RECORD FORMATS.

NOTE - THIS ROUTINE DECODES DOUBLE-CHARACTER REMARK CODES
STORED WITH USGS DATA, AS DESCRIBED WITHIN THE DATASET
'STORET.HELP.USGS.REMARKS'

FORMAT DATE YYMMDD8.;

FORMAT TIME HHMM5.;

FORMAT DEPTH \$6.;

FORMAT MEDIA \$8.;

FORMAT SMK \$8.;

FORMAT UMK \$8.;

FORMAT USGSRMK \$1.;

FORMAT BEGDATE YYMMDD8.;

FORMAT BEGTIME HHMM5.;

FORMAT REMDATE YYMMDD8.;

FORMAT REMTIME HHMM5.;

FORMAT ENDDATE YYMMDD8.;

FORMAT ENDTIME HHMM5.;

LENGTH AGENCY \$ 8;

LENGTH STATION \$ 24;

ARRAY P(I) P1-P50;

ARRAY R(I) \$1 R1-R50;

INFILE FCF LENGTH=L;

FORMAT MORE \$3.;

RETAIN MORE '3';

IF _N_=1 THEN DO; INPUT @24 MORE \$1. @;

IF MORE='9' THEN MORE='SAS';

PUT ' ';

PUT 'NOTE: FCF FORMAT IS MORE=' MORE;

IF MORE='3' THEN DO;

```

PUT : REMARK CODES, DEPTH INFORMATION, AND COMPOSITE';
PUT : SAMPLE DESCRIPTORS WILL BE MISSING.';
PUT : ;
END; END;
INPUT @26 YYDLIM $2. @ ;
IF L=305 | L=350 | L=75 | L=120;
    * OMTS PARAMETER HEADERS AND STATION HEADERS ;
IF YYDLIM~='99'; * OMTS DELIMITER RECORDS ;
INPUT @1 AGENCY $8. @9 STATION $15. @26 DATE YYMMDD6.
@32 KHR $2. RMN $2.
@36 (P1-P10)(RB4.) @;
IF L=120 THEN INPUT @76 MEDIA $8.
    @84 SMK $8.
    @93 UMK $8.
    @ ;
IF MORE='3' THEN DO; INPUT; GO TO SKIP; END;
INPUT
@76 (P11-P50)(RB4.) @236 (R1-R50)($1.) @286 TYPE $1. @287 CALC $1.
@288 RYY 2. RMM 2. RDD 2. @294 RHR $2. RMN $2. @298 NUMBER $2.
@300 DEPTH $6. @;
IF L=350 THEN INPUT @306 MEDIA $8.
    @314 SMK $8.
    @323 UMK $8.
    @ ;
INPUT;
IF RHR<'25' THEN REMTIME=HMS(INPUT(KHR,2.),INPUT(RMN,2.),0);
IF RYY>0 THEN REMDATE=MDY(RMM,RDD,RYY);
SKIP: IF KHR<'25' THEN TIME=HMS(INPUT(KHR,2.),INPUT(RMN,2.),0);
STATION=AGENCY||' '||STATION;
DO OVER P: IF P > 0. & P < 1.E-15 THEN P=. ; END;
IF AGENCY='112WRD' THEN DO;
    USGSRMK=NUMBER; * USGS 'SAMPLE' RMK CODE ;
    NUMBER=' ' ;
END;
IF REMDATE ~. &
    PUT(DATE,YYMMDD6.)||KHR||RMN <= PUT(REMDATE,YYMMDD6.)||RHR||RMN
    THEN DO;
        BEGDATE=DATE;BEGTIME=TIME;ENDDATE=REMDATE;ENDTIME=REMTIME;
    END;
IF REMDATE ~. &
    PUT(DATE,YYMMDD6.)||KHR||RMN > PUT(REMDATE,YYMMDD6.)||RHR||RMN
    THEN DO;
        BEGDATE=REMDATE;BEGTIME=REMTIME;ENDDATE=DATE;ENDTIME=TIME;
    END;
DROP KHR RMN RYY RMM RDD RHR RMN REMDATE REMTIME YYDLIM I ;
OPTIONS SOURCE;
*
*
SOURCE LISTING SUPPRESSED
(FULL SOURCE = 'STORET.HELP.FCFREAD')
*
*
DEFINITION OF VARIABLES CREATED BY MACRO (FCFREAD)

MORE - 3 CHAR CODE ('3','4', OR 'SAS')
AGENCY - 8 CHAR STORET AGENCY CODE
STATION - 24 CHARACTERS
    8 - STORET AGENCY CODE
    1 - BLANK
    15 - STORET PRIMARY STATION IDENTIFIER
DATE - SAMPLE DATE (SAS DATE FORM)

```

```

TIME      - SAMPLE TIME (SAS TIME FORM)
DEPTH     - 6 CHAR SAMPLE DEPTH + REMARK
MEDIA     - 8 CHAR SAMPLE MEDIA CODE.
SMK       - 8 CHAR SAMPLE SMK CODE.
UMK       - 8 CHAR SAMPLE UMK CODE.
P1-P50    - 50 FLOATING POINT NUMBERS.
           VALUES OF 50 PARAMETERS.
R1-R50    - 50 1 CHAR STORED RMK CODES
USGSRMK   - 1 CHAR USGS 'SAMPLE' RMK CODE
BEGDATE   - COMPOSITE SAMPLE BEGINNING DATE
BEGTIME   - COMPOSITE SAMPLE BEGINNING TIME
ENDDATE   - COMPOSITE SAMPLE ENDING DATE
ENDTIME   - COMPOSITE SAMPLE ENDING TIME
TYPE      - COMPOSITE SAMPLE TYPE (STB)
CALC      - COMPOSITE SAMPLE CALC CODE (AHLN)
NUMBER    - COMPOSITE SAMPLE NO. OF GRABS (OR 'C') ;
*          ;
* - - - - - :
*          WARNING :
* MACRO (FCFREAD) CONTAINS A "DROP" STATEMENT. :
* USERS MAY -NOT- USE THE "KEEP" STATEMENT. :
*          :
* - - - - - :
* MACRO (FCFREAD) - END-OF-MACRO ;
* - - - - - ;
END OF REPLACE

```

```

00000190
00000200 RENAME P1=FFC_C P2=TKN P3=NO2_N P4=NO3_N P5=N_AMMON P6=Y_PHOS
00000210 P7=O_PHOS P8=TOC ;
00000230 PROC CORR DATA=NEWDATA PEARSON SPEARMAN KENDALL Hoeffding;
00000240 BY STATION NOTSORTED ;
00000250 VAR DATE FFC_C TKN NO2_N NO3_N N_AMMON Y_PHOS O_PHOS TOC ;
00000260 PROC PRINT ;
00000270 BY STATION NOTSORTED ;
00000290 PROC CONTENTS DATA=NEWDATA ;
00000300 STOPSAS;
00000310 ./KXP JOB (A704STORPKXP,MKXP),'SAS.STAT.NEW',TIME=(1,00),
00000320 ./ MSGLEVEL=(0,0),NOTIFY=KXP,PRTY=2
00000330 **ROUTE PRINT DA
00000340 **JOBPARM LINES=20

```

```
# SAS DIAGNOSTICS (IF ANY) WILL BE PRINTED BELOW #
```

APPENDIX B

Statistical Summaries

Appendix B includes statistical summaries for water column parameters investigated in this study. Pearson, Spearman, and Kendall-tau b correlations and level of significance are presented along with mean, standard deviation, median, and minimum and maximum values. The summaries are the basis for determining water quality trends. Another statistic, Hoeffding dependence, is also provided although this statistic is not discussed in the report.

Appendix B also contains statistical summaries for selected heavy metals in sediment, although caution should be used in interpreting these statistics since the number of observations at any one station is quite low.

STATION=21TXWQB 10070800

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	1141	8268.73269062	1939.08917339	8251.00000000	3710.00000000	11547.00000000
CO	1081	1.56715062	2.07611478	0.50000000	0.00000000	10.39999962
TSS	330	41.63636364	58.42185864	23.50000000	0.00000000	500.00000000
BOD	315	6.59079362	8.47704715	5.00000000	1.00000000	113.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	CO	TSS	BOD
DATE	1.00000	0.26611	-0.35214	-0.12685
	0.0000	0.0001	0.0001	0.0243
	1141	1081	330	315
CO	0.26611	1.00000	0.12234	-0.13413
	0.0001	0.0000	0.0442	0.0278
	1081	1081	271	269
TSS	-0.35214	0.12234	1.00000	0.14724
	0.0001	0.0442	0.0000	0.0125
	330	271	330	287
BOD	-0.12685	-0.13413	0.14724	1.00000
	0.0243	0.0278	0.0125	0.0000
	315	269	287	315

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	CO	TSS	BOD
DATE	1.00000	0.40958	-0.44662	-0.27957
	0.0000	0.0001	0.0001	0.0001
	1141	1081	330	315
CO	0.40958	1.00000	0.00307	-0.07086
	0.0001	0.0000	0.9599	0.2468
	1081	1081	271	269
TSS	-0.44662	0.00307	1.00000	0.37669
	0.0001	0.9599	0.0000	0.0001
	330	271	330	287
BOD	-0.27957	-0.07086	0.37669	1.00000
	0.0001	0.2468	0.0001	0.0000
	315	269	287	315

STATION=21YXWQB 10070800

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 1141	0.28604 0.0001 1081	-0.30698 0.0001 330	-0.19649 0.0000 315
DO	0.28604 0.0001 1081	1.00000 0.0000 1081	-0.00143 0.9727 271	-0.05579 0.2007 269
TSS	-0.30698 0.0001 330	-0.00143 0.9727 271	1.00000 0.0000 330	0.26790 0.0001 287
BOD	-0.19649 0.0000 315	-0.05579 0.2007 269	0.26790 0.0001 287	1.00000 0.0000 315

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 1141	0.06193 0.0000 1081	0.06422 0.0000 330	0.02723 0.0000 315
DO	0.06193 0.0000 1081	1.00000 0.0000 1081	0.00299 0.0622 271	0.00459 0.0274 269
TSS	0.06422 0.0000 330	0.00299 0.0622 271	1.00000 0.0000 330	0.04022 0.0000 287
BOD	0.02723 0.0000 315	0.00459 0.0274 269	0.04022 0.0000 287	1.00000 0.0000 315

STATION=21TXWB 10060200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	678	9330.34660767	1423.87002728	9679.00000000	6138.00000000	11513.00000000
DO	531	3.24834241	2.21564543	3.15999985	0.00000000	9.59999943
TSS	222	24.98198198	32.01059835	16.00000000	1.00000000	326.00000000
BOD	191	2.84816754	1.53313724	2.00000000	1.00000000	11.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	0.49808	-0.24634	-0.08228
	0.0000	0.0001	0.0002	0.2578
	678	531	222	191
DO	0.49808	1.00000	-0.00903	-0.19817
	0.0001	0.0000	0.9375	0.1770
	531	531	78	48
TSS	-0.24634	-0.00903	1.00000	0.17079
	0.0002	0.9375	0.0000	0.0194
	222	78	222	187
BOD	-0.08228	-0.19817	0.17079	1.00000
	0.2578	0.1770	0.0194	0.0000
	191	48	187	191

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	0.48433	-0.30287	-0.05051
	0.0000	0.0001	0.0001	0.4877
	678	531	222	191
DO	0.48433	1.00000	0.05958	-0.21860
	0.0001	0.0000	0.6044	0.1333
	531	531	78	48
TSS	-0.30287	0.05958	1.00000	0.21512
	0.0001	0.6044	0.0000	0.0031
	222	78	222	187
BOD	-0.05051	-0.21860	0.21512	1.00000
	0.4877	0.1333	0.0031	0.0000
	191	48	187	191

SAS

8:55 TUESDAY, MARCH 17, 1992 4

STATION#21TXWQB 10060200

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 678	0.32532 0.0001 531	-0.19973 0.0000 222	-0.03893 0.4788 191
DO	0.32532 0.0001 531	1.00000 0.0000 531	0.03748 0.6343 78	-0.16076 0.1400 48
TSS	-0.19973 0.0000 222	0.03748 0.6343 78	1.00000 0.0000 222	0.16425 0.0034 187
BOD	-0.03893 0.4788 191	-0.16076 0.1400 48	0.16425 0.0034 187	1.00000 0.0000 191

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 678	0.08429 0.0000 531	0.03406 0.0000 222	-0.00240 0.9410 191
DO	0.08429 0.0000 531	1.00000 0.0000 531	-0.00188 0.5170 78	-0.00258 0.4888 48
TSS	0.03406 0.0000 222	-0.00188 0.5170 78	1.00000 0.0000 222	0.00722 0.0222 187
BOD	-0.00240 0.9410 191	-0.00258 0.4888 48	0.00722 0.0222 187	1.00000 0.0000 191

STATION=21TXWQB 10060100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	603	9286.91376451	1526.90607177	9715.00000000	3815.00000000	11547.00000000
DO	462	4.51125501	2.29393457	4.58999920	0.39999998	10.59999943
TSS	213	29.88262911	27.73901837	22.00000000	1.00000000	181.00000000
BOD	179	2.88715083	1.19775175	3.00000000	1.00000000	7.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 603	0.42503 0.0001 462	-0.14200 0.0384 213	0.04215 0.5753 179
DO	0.42503 0.0001 462	1.00000 0.0000 462	0.01333 0.9102 74	0.09052 0.5590 44
TSS	-0.14200 0.0384 213	0.01333 0.9102 74	1.00000 0.0000 213	0.14868 0.0496 175
BOD	0.04215 0.5753 179	0.09052 0.5590 44	0.14868 0.0496 175	1.00000 0.0000 179

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 603	0.42912 0.0001 462	-0.22259 0.0011 213	0.07275 0.3331 179
DO	0.42912 0.0001 462	1.00000 0.0000 462	0.12698 0.2810 74	-0.00123 0.9937 44
TSS	-0.22259 0.0011 213	0.12698 0.2810 74	1.00000 0.0000 213	0.10199 0.1793 175
BOD	0.07275 0.3331 179	-0.00123 0.9937 44	0.10199 0.1793 175	1.00000 0.0000 179

STATION=21TXWQB 10060100

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	800
DATE	1.00000 0.0000 603	0.29060 0.0001 462	-0.13787 0.0031 213	0.05825 0.3036 179
DO	0.29060 0.0001 462	1.00000 0.0000 462	0.09150 0.2560 74	-0.00938 0.9338 44
TSS	-0.13787 0.0031 213	0.09150 0.2560 74	1.00000 0.0000 213	0.07666 0.1842 175
800	0.05825 0.3036 179	-0.00938 0.9338 44	0.07666 0.1842 175	1.00000 0.0000 179

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	800
DATE	1.00000 0.0000 603	0.08628 0.0000 462	0.02210 0.0001 213	-0.00142 0.6654 179
DO	0.08628 0.0000 462	1.00000 0.0000 462	0.00182 0.2654 74	-0.01263 0.9936 44
TSS	0.02210 0.0001 213	0.00182 0.2654 74	1.00000 0.0000 213	-0.00262 0.9414 175
800	-0.00142 0.6654 179	-0.01263 0.9936 44	-0.00262 0.9414 175	1.00000 0.0000 179

STATION=2TTFXWQB 10050200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	525	9450.99809524	1482.21510592	9869.00000000	6138.00000000	11547.00000000
CO	391	6.38396377	1.87423966	6.39999962	2.39999962	11.89999962
TSS	206	37.49029126	48.36030829	26.00000000	2.00000000	504.00000000
BOO	174	3.28735632	2.25746313	3.00000000	1.00000000	21.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	CO	TSS	BOO
DATE	1.00000	-0.10434	-0.14332	0.08396
	0.0000	0.0392	0.0399	0.2707
	525	391	206	174
CO	-0.10434	1.00000	0.06405	0.20641
	0.0392	0.0000	0.5930	0.1842
	391	391	72	43
TSS	-0.14332	0.06405	1.00000	-0.00126
	0.0399	0.5930	0.0000	0.9869
	206	72	206	174
BOO	0.08396	0.20641	-0.00126	1.00000
	0.2707	0.1842	0.9869	0.0000
	174	43	174	174

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	CO	TSS	BOO
DATE	1.00000	-0.06923	-0.27878	0.17258
	0.0000	0.1719	0.0001	0.0228
	525	391	206	174
CO	-0.06923	1.00000	0.19757	0.11806
	0.1719	0.0000	0.0962	0.4508
	391	391	72	43
TSS	-0.27878	0.19757	1.00000	-0.02408
	0.0001	0.0962	0.0000	0.7524
	206	72	206	174
BOO	0.17258	0.11806	-0.02408	1.00000
	0.0228	0.4508	0.7524	0.0000
	174	43	174	174

STATION=21TXWQ8 10050200

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |K| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	-0.04271	-0.18289	0.13249
	0.0000	0.2127	0.0001	0.0189
	525	391	206	174
DO	-0.04271	1.00000	0.14853	0.07797
	0.2127	0.0000	0.0687	0.4889
	391	391	72	43
TSS	-0.18289	0.14853	1.00000	-0.01929
	0.0001	0.0687	0.0000	0.7340
	206	72	206	174
BOD	0.13249	0.07797	-0.01929	1.00000
	0.0189	0.4889	0.7340	0.0000
	174	43	174	174

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	0.00597	0.02576	0.00717
	0.0000	0.0037	0.0000	0.0269
	525	391	206	174
DO	0.00597	1.00000	0.01683	-0.01414
	0.0037	0.0000	0.0294	0.9994
	391	391	72	43
TSS	0.02576	0.01683	1.00000	-0.00368
	0.0000	0.0294	0.0000	1.0000
	206	72	206	174
BOD	0.00717	-0.01414	-0.00368	1.00000
	0.0269	0.9994	1.0000	0.0000
	174	43	174	174

STATION=21TXWB 10050100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	574	9430.58362369	1462.59951078	9869.00000000	6138.00000000	11547.00000000
DO	420	7.09199960	1.78303964	7.09999943	2.39999962	11.59999943
TSS	233	40.00858369	38.85372563	29.00000000	1.00000000	255.00000000
BOD	202	3.46534653	2.76640959	2.00000000	1.00000000	28.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 574	-0.18500 0.0001 420	0.01389 0.8330 233	0.28466 0.0001 202
DO	-0.18500 0.0001 420	1.00000 0.0000 420	-0.02473 0.8265 81	0.19697 0.1419 57
TSS	0.01389 0.8330 233	-0.02473 0.8265 81	1.00000 0.0000 233	-0.04539 0.5234 200
BOD	0.28466 0.0001 202	0.19697 0.1419 57	-0.04539 0.5234 200	1.00000 0.0000 202

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 574	-0.16603 0.0006 420	-0.08451 0.1987 233	0.35886 0.0001 202
DO	-0.16603 0.0006 420	1.00000 0.0000 420	0.02971 0.7923 81	0.14293 0.2888 57
TSS	-0.08451 0.1987 233	0.02971 0.7923 81	1.00000 0.0000 233	-0.14859 0.0357 200
BOD	0.35886 0.0001 202	0.14293 0.2888 57	-0.14859 0.0357 200	1.00000 0.0000 202

STATION=21TXWB 10050100

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	-0.11436	-0.05376	0.27165
	0.00000	0.00005	0.2258	0.00000
	574	420	233	202
DO	-0.11436	1.00000	0.01255	0.09721
	0.00005	0.00000	0.8702	0.3200
	420	420	81	57
TSS	-0.05376	0.01255	1.00000	-0.11047
	0.2258	0.8702	0.00000	0.0366
	233	81	233	200
BOD	0.27165	0.09721	-0.11047	1.00000
	0.00000	0.3200	0.0366	0.00000
	202	57	200	202

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000	0.01281	0.00624	0.03521
	0.00000	0.00000	0.0183	0.00000
	574	420	233	202
DO	0.01281	1.00000	-0.00479	-0.00499
	0.00000	0.00000	0.8568	0.7041
	420	420	81	57
TSS	0.00624	-0.00479	1.00000	0.00612
	0.0183	0.8568	0.00000	0.0281
	233	81	233	200
BOD	0.03521	-0.00499	0.00612	1.00000
	0.00000	0.7041	0.0281	0.00000
	202	57	200	202

STATION=Z1TXWQB 10010100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	166	9566.29518072	1391.89761147	9869.00000000	6142.00000000	11513.00000000
DO	142	6.50922499	2.20414442	6.50000000	1.19999981	12.59999943
TSS	53	22.15094340	24.49363828	15.00000000	1.00000000	173.00000000
BOD	5	3.80000000	1.78885438	4.00000000	2.00000000	6.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 166	0.36623 0.0001 142	-0.25045 0.0705 53	-0.37025 0.5396 5
DO	0.36623 0.0001 142	1.00000 0.0000 142	-0.01291 0.9470 29	0.61224 0.5805 3
TSS	-0.25045 0.0705 53	-0.01291 0.9470 29	1.00000 0.0000 53	0.55236 0.3343 5
BOD	-0.37025 0.5396 5	0.61224 0.5805 3	0.55236 0.3343 5	1.00000 0.0000 5

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 166	0.33677 0.0001 142	-0.33712 0.0136 53	-0.20520 0.7406 5
DO	0.33677 0.0001 142	1.00000 0.0000 142	-0.09676 0.6175 29	0.50000 0.6667 3
TSS	-0.33712 0.0136 53	-0.09676 0.6175 29	1.00000 0.0000 53	0.39474 0.5108 5
BOD	-0.20520 0.7406 5	0.50000 0.6667 3	0.39474 0.5108 5	1.00000 0.0000 5

STATION=21TXWQB 10010100

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 166	0.23129 0.0001 142	-0.21979 0.0216 53	-0.10541 0.8005 5
DO	0.23129 0.0001 142	1.00000 0.0000 142	-0.07839 0.5591 29	0.33333 0.6015 3
TSS	-0.21979 0.0216 53	-0.07839 0.5591 29	1.00000 0.0000 53	0.44444 0.2979 5
BOD	-0.10541 0.8005 5	0.33333 0.6015 3	0.44444 0.2979 5	1.00000 0.0000 5

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	DO	TSS	BOD
DATE	1.00000 0.0000 166	0.04017 0.0000 142	0.03421 0.0099 53	-0.50000 . 5
DO	0.04017 0.0000 142	1.00000 0.0000 142	-0.01714 0.9604 29	. 0.9604 3
TSS	0.03421 0.0099 53	-0.01714 0.9604 29	1.00000 0.0000 53	0.01563 0.0000 5
BOD	-0.50000 . 5	. 0.9604 3	0.01563 0.0000 5	1.00000 . 5

STATION=21TXWQ 10070800

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	337	7794.67062315	1821.01482405	7593.00000000	4424.00000000	11547.00000000
FEC_C	179	27116.01675978	65298.75932623	2700.00000000	7.00000000	45000.00000000
TKN	198	3.93222181	3.86933996	3.19799981	6.799999475E-01	50.1999969
NO2_N	144	1.198749831E-01	2.142569865E-01	7.999998331E-02	9.999997914E-03	2.1499996
NO3_N	323	6.462785436E-01	1.10618554	2.099999785E-01	0.00000000	7.4299994
N_AMMON	324	2.90977742	3.23648064	2.14499950	1.199999824E-02	39.00000000
T_PHOS	323	1.87716990	1.02235191	1.72999954	4.55999704E-01	11.5999994
O_PHOS	254	4.71084598	2.09910668	4.40499926	1.17799950	11.3499994
TOC	283	14.42826855	14.22513182	13.00000000	1.000000000E+00	230.0000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.29646	-0.22684	0.15897	0.66958	-0.48506	-0.19274	-0.22732	-0.11878
	0.0000	0.0001	0.0013	0.0570	0.0001	0.0001	0.0005	0.0003	0.0459
	337	179	198	144	323	324	323	254	283
FEC_C	-0.29646	1.00000	0.02798	0.30133	-0.21342	0.19928	0.06722	-0.02436	0.04381
	0.0001	0.0000	0.7686	0.0227	0.0051	0.0086	0.3809	0.7866	0.5896
	179	179	113	57	171	173	172	126	154
TKN	-0.22684	0.02798	1.00000	-0.22770	-0.25872	0.53200	0.62206	0.71756	0.85928
	0.0013	0.7686	0.0000	0.0214	0.0003	0.0001	0.0001	0.0001	0.0001
	198	113	198	102	189	192	191	144	150
NO2_N	0.15897	0.30133	-0.22770	1.00000	0.14651	-0.19752	-0.08285	-0.14614	-0.11428
	0.0570	0.0227	0.0214	0.0000	0.0797	0.0189	0.3340	0.1388	0.2082
	144	57	102	144	144	141	138	104	123
NO3_N	0.66958	-0.21342	-0.25872	0.14651	1.00000	-0.34325	0.06131	-0.10702	-0.17258
	0.0001	0.0051	0.0003	0.0797	0.0000	0.0001	0.2788	0.0933	0.0042
	323	171	189	144	323	319	314	247	274
N_AMMON	-0.48506	0.19928	0.53200	-0.19752	-0.34325	1.00000	0.70954	0.42723	0.13228
	0.0001	0.0086	0.0001	0.0189	0.0001	0.0000	0.0001	0.0001	0.0286
	324	173	192	141	319	324	315	245	274
T_PHOS	-0.19274	0.06722	0.62206	-0.08285	0.06131	0.70954	1.00000	0.67562	0.22579
	0.0005	0.3809	0.0001	0.3340	0.2788	0.0001	0.0000	0.0001	0.0002
	323	172	191	138	314	315	323	247	273
O_PHOS	-0.22732	-0.02436	0.71756	-0.14614	-0.10702	0.42723	0.67562	1.00000	0.01470
	0.0003	0.7866	0.0001	0.1388	0.0933	0.0001	0.0001	0.0000	0.8299
	254	126	144	104	247	245	247	254	216
TOC	-0.11878	0.04381	0.85928	-0.11428	-0.17258	0.13228	0.22579	0.01470	1.00000
	0.0459	0.5896	0.0001	0.2082	0.0042	0.0286	0.0002	0.8299	0.0000
	283	154	150	123	274	274	273	216	283

STATION=21TXWQA 10070800

SPEARMAN CORRELATION COEFFICIENTS / PROBAB. |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 337	-0.35200 0.0001 179	-0.61774 0.0001 198	0.45350 0.0001 144	0.68342 0.0001 323	-0.69049 0.0001 324	-0.22593 0.0001 323	-0.20551 0.0010 254	-0.42397 0.0001 283
FEC_C	-0.35200 0.0001 179	1.00000 0.0000 179	0.06365 0.5030 113	-0.13895 0.3026 57	-0.37525 0.0001 171	0.19054 0.0120 173	-0.11824 0.1224 172	-0.09958 0.2672 126	0.07582 0.3500 154
TKN	-0.61774 0.0001 198	0.06365 0.5030 113	1.00000 0.0000 198	-0.51002 0.0001 102	-0.57961 0.0001 189	0.89559 0.0001 192	0.53524 0.0001 191	0.70314 0.0001 144	0.22671 0.0053 150
NO2_N	0.45350 0.0001 144	-0.13895 0.3026 57	-0.51002 0.0001 102	1.00000 0.0000 144	0.69569 0.0001 144	-0.51909 0.0001 141	-0.17575 0.0392 138	-0.40099 0.0001 104	-0.32481 0.0002 123
NO3_N	0.68342 0.0001 323	-0.37525 0.0001 171	-0.57961 0.0001 189	0.69569 0.0001 144	1.00000 0.0000 323	-0.69230 0.0001 319	-0.28692 0.0001 314	-0.40826 0.0001 247	-0.27850 0.0001 274
N_AMMON	-0.69049 0.0001 324	0.19054 0.0120 173	0.89559 0.0001 192	-0.51909 0.0001 141	-0.69230 0.0001 319	1.00000 0.0000 324	0.57519 0.0001 315	0.65532 0.0001 245	0.31124 0.0001 274
T_PHOS	-0.22593 0.0001 323	-0.11824 0.1224 172	0.53524 0.0001 191	-0.17575 0.0392 138	-0.28692 0.0001 314	0.57519 0.0001 315	1.00000 0.0000 323	0.87984 0.0001 247	0.06765 0.2653 273
O_PHOS	-0.20551 0.0010 254	-0.09958 0.2672 126	0.70314 0.0001 144	-0.40099 0.0001 104	-0.40826 0.0001 247	0.65532 0.0001 245	0.87984 0.0001 247	1.00000 0.0000 254	-0.02170 0.7512 216
TOC	-0.42397 0.0001 283	0.07582 0.3500 154	0.22671 0.0053 150	-0.32481 0.0002 123	-0.27850 0.0001 274	0.31124 0.0001 274	0.06765 0.2653 273	-0.02170 0.7512 216	1.00000 0.0000 283

STATION=21TXWQB 10070800

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 337	-0.23328 0.0000 179	-0.43904 0.0001 198	0.31670 0.0000 144	0.50342 0.0001 323	-0.50340 0.0001 324	-0.15752 0.0000 323	-0.14124 0.0008 254	-0.30499 0.0001 283
FEC_C	-0.23328 0.0000 179	1.00000 0.0000 179	0.04050 0.5284 113	-0.09617 0.3052 57	-0.25285 0.0000 171	0.12362 0.0162 173	-0.07535 0.1441 172	-0.06747 0.2645 126	0.05574 0.3202 154
TKN	-0.43904 0.0001 198	0.04050 0.5284 113	1.00000 0.0000 198	-0.37065 0.0000 102	-0.41185 0.0001 189	0.73807 0.0001 192	0.39849 0.0001 191	0.51747 0.0001 144	0.16306 0.0041 150
NO2_N	0.31670 0.0000 144	-0.09617 0.3052 57	-0.37065 0.0000 102	1.00000 0.0000 144	0.52152 0.0001 144	-0.37095 0.0001 141	-0.12983 0.0302 138	-0.28414 0.0001 104	-0.22411 0.0006 123
NO3_N	0.50342 0.0001 323	-0.25285 0.0000 171	-0.41185 0.0001 189	0.52152 0.0001 144	1.00000 0.0000 323	-0.50972 0.0001 319	-0.20020 0.0000 314	-0.29261 0.0001 247	-0.19800 0.0000 274
N_AMMON	-0.50340 0.0001 324	0.12362 0.0162 173	0.73807 0.0001 192	-0.37095 0.0001 141	-0.50972 0.0001 319	1.00000 0.0000 324	0.42907 0.0001 315	0.48636 0.0001 245	0.22473 0.0000 274
T_PHOS	-0.15752 0.0000 323	-0.07535 0.1441 172	0.39849 0.0001 191	-0.12983 0.0302 138	-0.20020 0.0000 314	0.42907 0.0001 315	1.00000 0.0000 323	0.75024 0.0001 247	0.04802 0.2497 273
O_PHOS	-0.14124 0.0008 254	-0.06747 0.2645 126	0.51747 0.0001 144	-0.28414 0.0001 104	-0.29261 0.0001 247	0.48636 0.0001 245	0.75024 0.0001 247	1.00000 0.0000 254	-0.00732 0.8762 216
TOC	-0.30499 0.0001 283	0.05574 0.3202 154	0.16306 0.0041 150	-0.22411 0.0006 123	-0.19800 0.0000 274	0.22473 0.0000 274	0.04802 0.2497 273	-0.00732 0.8762 216	1.00000 0.0000 283

STATION=21TXWQB 10070800

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.00000 337	0.03500 0.00000 179	0.15105 0.00000 198	0.06642 0.00000 144	0.19945 0.00000 323	0.19177 0.00000 324	0.01586 0.00000 323	0.01035 0.0022 254	0.06818 0.0000 283
FEC_C	0.03500 0.00000 179	1.00000 0.00000 179	-0.00276 0.7499 113	-0.00298 0.5453 57	0.04025 0.00000 171	0.01049 0.00095 173	0.00085 0.2582 172	0.00086 0.2816 126	0.00464 0.0758 154
TKN	0.15105 0.00000 198	-0.00276 0.7499 113	1.00000 0.00000 198	0.08619 0.00000 102	0.11341 0.00000 189	0.44785 0.00000 192	0.11894 0.00000 191	0.18663 0.00000 144	0.01528 0.0040 150
NO2_N	0.06642 0.00000 144	-0.00298 0.5453 57	0.08619 0.00000 102	1.00000 0.00000 144	0.17211 0.00000 144	0.08564 0.00000 141	0.01577 0.0050 138	0.04617 0.0001 104	0.02623 0.0008 123
NO3_N	0.19945 0.00000 323	0.04025 0.00000 171	0.11341 0.00000 189	0.17211 0.00000 144	1.00000 0.00000 323	0.17952 0.00000 319	0.04373 0.00000 314	0.06023 0.00000 247	0.02412 0.0000 274
N_AMMON	0.19177 0.00000 324	0.01049 0.00095 173	0.44785 0.00000 192	0.08564 0.00000 141	0.17952 0.00000 319	1.00000 0.00000 324	0.14319 0.00000 315	0.17052 0.00000 245	0.03256 0.0000 274
T_PHOS	0.01586 0.00000 323	0.00085 0.2582 172	0.11894 0.00000 191	0.01577 0.0050 138	0.04373 0.00000 314	0.14319 0.00000 315	1.00000 0.00000 323	0.48977 0.00000 247	0.00099 0.1945 273
O_PHOS	0.01035 0.0022 254	0.00086 0.2816 126	0.18663 0.00000 144	0.04617 0.0001 104	0.06023 0.00000 247	0.17052 0.00000 245	0.48977 0.00000 247	1.00000 0.00000 254	0.00444 0.0466 216
TOC	0.06818 0.00000 283	0.00464 0.0758 154	0.01528 0.0040 150	0.02623 0.0008 123	0.02412 0.00000 274	0.03256 0.00000 274	0.00099 0.1945 273	0.00444 0.0466 216	1.00000 0.0000 283

STATION=21TXWQB 10060200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	228	8263.02631579	1484.66442884	7934.00000000	6138.00000000	11513.00000000
FEC_C	144	7722.91666667	20111.64293745	1200.00000000	10.00000000	145000.00000000
TKN	148	3.08493203	1.13708275	2.89999962	1.00000000	6.29999992
NO2_N	188	0.25377124	0.29459553	0.15999997	0.01000000	1.91999991
NO3_N	219	0.62771221	0.75266971	0.34999996	0.00000000	5.50999993
N_AMMON	218	1.71831165	1.41061993	1.31999969	0.01200000	9.09999994
T_PHOS	217	1.70660793	0.93386343	1.50000000	0.33899999	7.09999994
O_PHOS	158	5.04352292	3.21632091	4.38099957	0.03100000	20.96099985
TOC	195	12.39179487	5.53890964	11.00000000	1.00000000	32.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.20710	-0.30883	0.20449	0.58898	-0.45510	-0.31023	-0.28506	-0.29818
	0.00000	0.0128	0.00001	0.0049	0.0001	0.0001	0.0001	0.0003	0.0001
	228	144	148	188	219	218	217	158	195
FEC_C	-0.20710	1.00000	0.05673	-0.14948	-0.15112	0.08601	-0.08340	-0.12664	0.11066
	0.0128	0.0000	0.5975	0.1032	0.0758	0.3123	0.3290	0.2370	0.2211
	144	144	89	120	139	140	139	89	124
TKN	-0.30883	0.05673	1.00000	0.04126	-0.13749	0.54522	0.53800	0.51165	0.07531
	0.00001	0.5975	0.0000	0.6465	0.1015	0.0001	0.0001	0.0001	0.4156
	148	89	148	126	143	145	144	108	119
NO2_N	0.20449	-0.14948	0.04126	1.00000	0.41728	-0.04308	0.02437	0.00807	0.11776
	0.0049	0.1032	0.6465	0.0000	0.0001	0.5614	0.7461	0.9268	0.1332
	188	120	126	188	188	184	179	132	164
NO3_N	0.58898	-0.15112	-0.13749	0.41728	1.00000	-0.21160	-0.09973	-0.04808	-0.02756
	0.00001	0.0758	0.1015	0.0001	0.0000	0.0019	0.1508	0.5551	0.7081
	219	139	143	188	219	214	209	153	187
N_AMMON	-0.45510	0.08601	0.54522	-0.04308	-0.21160	1.00000	0.38746	0.30657	0.15286
	0.00001	0.3123	0.0001	0.5614	0.0019	0.0000	0.0001	0.0001	0.0367
	218	140	145	184	214	218	209	150	187
T_PHOS	-0.31023	-0.08340	0.53800	0.02437	-0.09973	0.38746	1.00000	0.93603	0.11495
	0.00001	0.3290	0.0001	0.7461	0.1508	0.0001	0.0000	0.0001	0.1182
	217	139	144	179	209	209	217	152	186
O_PHOS	-0.28506	-0.12664	0.51165	0.00807	-0.04808	0.30657	0.93603	1.00000	0.22505
	0.00003	0.2370	0.0001	0.9268	0.5551	0.0001	0.0001	0.0000	0.0087
	158	89	108	132	153	150	152	158	135
TOC	-0.29818	0.11066	0.07531	0.11776	-0.02756	0.15286	0.11495	0.22505	1.00000
	0.00001	0.2211	0.4156	0.1332	0.7081	0.0367	0.1182	0.0087	0.0000
	195	124	119	164	187	187	186	135	195

STATION=21TXWQB 10060200

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.23005	-0.31734	0.34527	0.63183	-0.59404	-0.31017	-0.30228	-0.32780
	0.0000	0.0055	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001
	228	144	148	188	219	218	217	158	195
FEC_C	-0.23005	1.00000	-0.08423	-0.46243	-0.16074	0.02965	-0.05083	-0.13640	0.08836
	0.0055	0.0000	0.4326	0.0001	0.0587	0.7281	0.5523	0.2025	0.3291
	144	144	89	120	139	140	139	89	124
TKN	-0.31734	-0.08423	1.00000	0.00301	-0.10381	0.66653	0.61327	0.59830	0.07035
	0.0001	0.4326	0.0000	0.9733	0.2173	0.0001	0.0001	0.0001	0.4471
	148	89	148	126	143	145	144	108	119
NO2_N	0.34527	-0.46243	0.00301	1.00000	0.42332	-0.26398	0.03566	0.05481	-0.04503
	0.0001	0.0001	0.9733	0.0000	0.0001	0.6003	0.6356	0.5325	0.5670
	188	120	126	188	188	184	179	132	164
NO3_N	0.63183	-0.16074	-0.10381	0.42332	1.00000	-0.43403	-0.12140	-0.12397	-0.09173
	0.0001	0.0587	0.2173	0.0001	0.0000	0.0001	0.0799	0.1268	0.2118
	219	139	143	188	219	214	209	153	187
N_AMMON	-0.59404	0.02965	0.66653	-0.26398	-0.43403	1.00000	0.48654	0.53595	0.26910
	0.0001	0.7281	0.0001	0.0003	0.0001	0.0000	0.0001	0.0001	0.0002
	218	140	145	184	214	218	209	150	187
T_PHOS	-0.31017	-0.05083	0.61327	0.03566	-0.12140	0.48654	1.00000	0.87078	0.15022
	0.0001	0.5523	0.0001	0.6356	0.0799	0.0001	0.0000	0.0001	0.0407
	217	139	144	179	209	209	217	152	186
O_PHOS	-0.30228	-0.13640	0.59830	0.05481	-0.12397	0.53595	0.87078	1.00000	0.33490
	0.0001	0.2025	0.0001	0.5325	0.1268	0.0001	0.0001	0.0000	0.0001
	158	89	108	132	153	150	152	158	135
TOC	-0.32780	0.08836	0.07035	-0.04503	-0.09173	0.26910	0.15022	0.33490	1.00000
	0.0001	0.3291	0.4471	0.5670	0.2118	0.0002	0.0407	0.0001	0.0000
	195	124	119	164	187	187	186	135	195

STATION=21TXWQB 10060200

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 228	-0.15808 0.0052 144	-0.21238 0.0001 148	0.24075 0.0000 188	0.45235 0.0001 219	-0.41567 0.0001 218	-0.21497 0.0000 217	-0.21807 0.0001 158	-0.24836 0.0000 195
FEC_C	-0.15808 0.0052 144	1.00000 0.0000 144	-0.06302 0.3869 89	-0.32658 0.0000 120	-0.10853 0.0599 139	0.02101 0.7145 140	-0.03361 0.5600 139	-0.08600 0.2363 89	0.06029 0.3375 124
TKN	-0.21238 0.0001 148	-0.06302 0.3869 89	1.00000 0.0000 148	0.00733 0.9043 126	-0.07303 0.2000 143	0.50771 0.0001 145	0.44299 0.0001 144	0.42925 0.0001 108	0.05304 0.4069 119
NO2_N	0.24075 0.0000 188	-0.32658 0.0000 120	0.00733 0.9043 126	1.00000 0.0000 188	0.30472 0.0001 188	-0.18757 0.0002 184	0.03107 0.5400 179	0.04998 0.3996 132	-0.03258 0.5507 164
NO3_N	0.45235 0.0001 219	-0.10853 0.0599 139	-0.07303 0.2000 143	0.30472 0.0001 188	1.00000 0.0000 219	-0.29993 0.0001 214	-0.07525 0.1072 209	-0.07114 0.1946 153	-0.06463 0.2034 187
N_AMMON	-0.41567 0.0001 218	0.02101 0.7145 140	0.50771 0.0001 145	-0.18757 0.0002 184	-0.29993 0.0001 214	1.00000 0.0000 218	0.34788 0.0001 209	0.38433 0.0001 150	0.18268 0.0003 187
T_PHOS	-0.21497 0.0000 217	-0.03361 0.5600 139	0.44299 0.0001 144	0.03107 0.5400 179	-0.07525 0.1072 209	0.34788 0.0001 209	1.00000 0.0000 217	0.76631 0.0001 152	0.10395 0.0413 186
O_PHOS	-0.21807 0.0001 158	-0.08600 0.2363 89	0.42925 0.0001 108	0.04998 0.3996 132	-0.07114 0.1946 153	0.38433 0.0001 150	0.76631 0.0001 152	1.00000 0.0000 158	0.23415 0.0001 135
TOC	-0.24836 0.0000 195	0.06029 0.3375 124	0.05304 0.4069 119	-0.03258 0.5507 164	-0.06463 0.2034 187	0.18268 0.0003 187	0.10395 0.0413 186	0.23415 0.0001 135	1.00000 0.0000 195

STATION=21TXWQH 10060200

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 228	0.01538 0.0046 144	0.02560 0.0003 148	0.04610 0.0000 188	0.18782 0.0000 219	0.14270 0.0000 218	0.03350 0.0000 217	0.03883 0.0000 158	0.04851 0.0000 195
FEC_C	0.01538 0.0046 144	1.00000 0.0000 144	-0.00301 0.6824 89	0.07744 0.0000 120	0.00948 0.0237 139	-0.00334 0.9478 140	-0.00270 0.8422 139	-0.00155 0.5067 89	-0.00335 0.8935 124
TKN	0.02560 0.0003 148	-0.00301 0.6824 89	1.00000 0.0000 148	-0.00186 0.6355 126	0.00216 0.1784 143	0.20663 0.0000 145	0.12279 0.0000 144	0.11282 0.0000 108	-0.00065 0.4386 119
NO2_N	0.04610 0.0000 188	0.07744 0.0000 120	-0.00186 0.6355 126	1.00000 0.0000 188	0.06284 0.0000 188	0.02110 0.0002 184	0.00334 0.0960 179	0.00565 0.0714 132	0.00156 0.2010 164
NO3_N	0.18782 0.0000 219	0.00948 0.0237 139	0.00216 0.1784 143	0.06284 0.0000 188	1.00000 0.0000 219	0.06518 0.0000 214	0.00661 0.0209 209	0.00641 0.0449 153	0.00069 0.2686 187
N_AMMON	0.14270 0.0000 218	-0.00334 0.9478 140	0.20663 0.0000 145	0.02110 0.0002 184	0.06518 0.0000 214	1.00000 0.0000 218	0.09571 0.0000 209	0.10021 0.0000 150	0.01861 0.0005 187
T_PHOS	0.03350 0.0000 217	-0.00270 0.8422 139	0.12279 0.0000 144	0.00334 0.0960 179	0.00661 0.0209 209	0.09571 0.0000 209	1.00000 0.0000 217	0.52834 0.0000 152	0.00330 0.0929 186
O_PHOS	0.03883 0.0000 158	-0.00155 0.5067 89	0.11282 0.0000 108	0.00565 0.0714 132	0.00641 0.0449 153	0.10021 0.0000 150	0.52834 0.0000 152	1.00000 0.0000 158	0.03127 0.0001 135
TOC	0.04851 0.0000 195	-0.00335 0.8935 124	-0.00065 0.4386 119	0.00156 0.2010 164	0.00069 0.2686 187	0.01861 0.0005 187	0.00330 0.0929 186	0.03127 0.0001 135	1.00000 0.0000 195

STATION=21TXWQB 10060100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	217	8354.47004608	1624.49808496	7850.00000000	5276.00000000	11547.00000000
FEC_C	124	2255.08064516	5843.22949128	400.00000000	10.00000000	43000.00000000
TKN	133	2.30909734	0.94135413	2.09999943	0.67999995	5.43999958
NO2_N	172	0.26950577	0.28153060	0.15999997	0.01000000	1.50999928
NO3_N	204	0.52975483	0.55049174	0.32999998	0.01000000	5.68999958
N_AMMON	203	0.95303923	0.76872693	0.72799999	0.01200000	4.04999924
T_PHOS	202	1.13662847	0.51435354	1.02999973	0.33999997	3.09999943
O_PHOS	141	3.31075133	1.50623339	2.99879932	0.90599996	8.75000000
TUC	183	11.64480874	5.87222582	11.00000000	1.00000000	49.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TUC
DATE	1.00000	-0.10230	-0.21196	0.06145	0.50185	-0.48985	-0.34137	-0.23257	-0.30054
	0.0000	0.2582	0.0143	0.4232	0.0001	0.0001	0.0001	0.0055	0.0001
	217	124	133	172	204	203	202	141	183
FEC_C	-0.10230	1.00000	0.13818	-0.12726	-0.02634	0.02878	-0.02433	-0.10330	-0.14742
	0.2582	0.0000	0.2404	0.2166	0.7780	0.7571	0.7955	0.3778	0.1353
	124	124	74	96	117	118	116	75	104
TKN	-0.21196	0.13818	1.00000	-0.05248	-0.09656	0.69579	0.57159	0.51119	0.05857
	0.0143	0.2404	0.0000	0.5878	0.2802	0.0001	0.0001	0.0001	0.5548
	133	74	133	109	127	129	128	92	104
NO2_N	0.06145	-0.12726	-0.05248	1.00000	0.31193	-0.17495	0.27400	0.30317	0.08897
	0.4232	0.2166	0.5878	0.0000	0.0001	0.0242	0.0004	0.0012	0.2806
	172	96	109	172	171	166	161	112	149
NO3_N	0.50185	-0.02634	-0.09656	0.31193	1.00000	-0.25577	-0.02425	0.03493	-0.09313
	0.0001	0.7780	0.2802	0.0001	0.0000	0.0003	0.7372	0.6864	0.2216
	204	117	127	171	204	199	194	136	174
N_AMMON	-0.48985	0.02878	0.69579	-0.17495	-0.25577	1.00000	0.67984	0.63660	0.15420
	0.0001	0.7571	0.0001	0.0242	0.0003	0.0000	0.0001	0.0001	0.0428
	203	118	129	166	199	203	193	132	173
T_PHOS	-0.34137	-0.02433	0.57159	0.27400	-0.02425	0.67984	1.00000	0.90906	0.14349
	0.0001	0.7955	0.0001	0.0004	0.7372	0.0001	0.0000	0.0001	0.0604
	202	116	128	161	194	193	202	134	172
O_PHOS	-0.23257	-0.10330	0.51119	0.30317	0.03493	0.63660	0.90906	1.00000	0.11229
	0.0055	0.3778	0.0001	0.0012	0.6864	0.0001	0.0001	0.0000	0.2240
	141	75	92	112	136	132	134	141	119
TUC	-0.30054	-0.14742	0.05857	0.08897	-0.09313	0.15420	0.14349	0.11229	1.00000
	0.0001	0.1353	0.5548	0.2806	0.2216	0.0428	0.0604	0.2240	0.0000
	183	104	104	149	174	173	172	119	183

STATION=21TXWB 10060100

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 217	-0.19169 0.0329 124	-0.19648 0.0234 133	0.17786 0.0196 172	0.61924 0.0001 204	-0.50416 0.0001 203	-0.32477 0.0001 202	-0.23636 0.0048 141	-0.38489 0.0001 183
FEC_C	-0.19169 0.0329 124	1.00000 0.0000 124	0.06596 0.5766 74	-0.31656 0.0017 96	-0.11861 0.2028 117	0.16265 0.0784 118	0.03520 0.7075 116	-0.11230 0.3374 75	-0.14178 0.1511 104
TKN	-0.19648 0.0234 133	0.06596 0.5766 74	1.00000 0.0000 133	0.00087 0.9928 109	0.05272 0.5561 127	0.62281 0.0001 129	0.53120 0.0001 128	0.47235 0.0001 92	0.14640 0.1381 104
NO2_N	0.17786 0.0196 172	-0.31656 0.0017 96	0.00087 0.9928 109	1.00000 0.0000 172	0.30745 0.0001 171	-0.18235 0.0187 166	0.25989 0.0009 161	0.30112 0.0013 112	0.03870 0.6393 149
NO3_N	0.61924 0.0001 204	-0.11861 0.2028 117	0.05272 0.5561 127	0.30745 0.0001 171	1.00000 0.0000 204	-0.26866 0.0001 199	-0.04679 0.5171 194	0.05678 0.5115 136	-0.14512 0.0561 174
N_AMMON	-0.50416 0.0001 203	0.16265 0.0784 118	0.62281 0.0001 129	-0.18235 0.0187 166	-0.26866 0.0001 199	1.00000 0.0000 203	0.54752 0.0001 193	0.54154 0.0001 132	0.17868 0.0187 173
T_PHOS	-0.32477 0.0001 202	0.03520 0.7075 116	0.53120 0.0001 128	0.25989 0.0009 161	-0.04679 0.5171 194	0.54752 0.0001 193	1.00000 0.0000 202	0.91281 0.0001 134	0.15236 0.0460 172
O_PHOS	-0.23636 0.0048 141	-0.11230 0.3374 75	0.47235 0.0001 92	0.30112 0.0013 112	0.05678 0.5115 136	0.54154 0.0001 132	0.91281 0.0001 134	1.00000 0.0000 141	0.13294 0.1495 119
TOC	-0.38489 0.0001 183	-0.14178 0.1511 104	0.14640 0.1381 104	0.03870 0.6393 149	-0.14512 0.0561 174	0.17868 0.0187 173	0.15236 0.0460 172	0.13294 0.1495 119	1.00000 0.0000 183

STATION=21TXWQB 10060100

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 217	-0.13246 0.0302 124	-0.12941 0.0286 133	0.13392 0.0097 172	0.44190 0.0001 204	-0.35147 0.0001 203	-0.21812 0.0000 202	-0.15848 0.0055 141	-0.28613 0.0000 183
FEC_C	-0.13246 0.0302 124	1.00000 0.0000 124	0.04886 0.5436 74	-0.21536 0.0021 96	-0.07282 0.2491 117	0.11142 0.0758 118	0.02631 0.6779 116	-0.07371 0.3528 75	-0.10390 0.1302 104
TKN	-0.12941 0.0286 133	0.04886 0.5436 74	1.00000 0.0000 133	0.00017 0.9979 109	0.03060 0.6138 127	0.46367 0.0001 129	0.38034 0.0001 128	0.31848 0.0000 92	0.09906 0.1496 104
NO2_N	0.13392 0.0097 172	-0.21536 0.0021 96	0.00017 0.9979 109	1.00000 0.0000 172	0.22265 0.0000 171	-0.11902 0.0238 166	0.18090 0.0007 161	0.21076 0.0011 112	0.02564 0.6541 149
NO3_N	0.44190 0.0001 204	-0.07282 0.2491 117	0.03060 0.6138 127	0.22265 0.0000 171	1.00000 0.0000 204	-0.17558 0.0002 199	-0.02681 0.5809 194	0.03506 0.5482 136	-0.09955 0.0591 174
N_AMMON	-0.35147 0.0001 203	0.11142 0.0758 118	0.46367 0.0001 129	-0.11902 0.0238 166	-0.17558 0.0002 199	1.00000 0.0000 203	0.39823 0.0001 193	0.38331 0.0001 132	0.12958 0.0139 173
T_PHOS	-0.21812 0.0000 202	0.02631 0.6779 116	0.38034 0.0001 128	0.18090 0.0007 161	-0.02681 0.5809 194	0.39823 0.0001 193	1.00000 0.0000 202	0.80340 0.0001 134	0.10394 0.0492 172
O_PHOS	-0.15848 0.0055 141	-0.07371 0.3528 75	0.31848 0.0000 92	0.21076 0.0011 112	0.03506 0.5482 136	0.38331 0.0001 132	0.80340 0.0001 134	1.00000 0.0000 141	0.09123 0.1542 119
TOC	-0.28613 0.0000 183	-0.10390 0.1302 104	0.09906 0.1496 104	0.02564 0.6541 149	-0.09955 0.0591 174	0.12958 0.0139 173	0.10394 0.0492 172	0.09123 0.1542 119	1.00000 0.0000 183

STATION=21TXWQB 10060100

HOFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 217	0.01427 0.0103 124	0.01009 0.0226 133	0.02289 0.0002 172	0.15650 0.0000 204	0.09348 0.0000 203	0.03111 0.0000 202	0.01883 0.0021 141	0.05762 0.0000 183
FEC_C	0.01427 0.0103 124	1.00000 0.0000 124	-0.00623 0.9398 74	0.03676 0.0005 96	0.00116 0.2641 117	0.00672 0.0651 118	-0.00233 0.6877 116	-0.00217 0.5368 75	0.00473 0.1205 104
TKN	0.01009 0.0226 133	-0.00623 0.9398 74	1.00000 0.0000 133	-0.00200 0.6120 109	0.00448 0.1022 127	0.17334 0.0000 129	0.09926 0.0000 128	0.06063 0.0000 92	0.00497 0.1142 104
NO2_N	0.02289 0.0002 172	0.03676 0.0005 96	-0.00200 0.6120 109	1.00000 0.0000 172	0.03662 0.0000 171	0.00652 0.0369 166	0.02143 0.0005 161	0.02861 0.0008 112	-0.00262 0.8622 149
NO3_N	0.15650 0.0000 204	0.00116 0.2641 117	0.00448 0.1022 127	0.03662 0.0000 171	1.00000 0.0000 204	0.02461 0.0000 199	0.00270 0.1119 194	0.00159 0.2196 136	0.00217 0.1532 174
N_AMMON	0.09348 0.0000 203	0.00672 0.0651 118	0.17334 0.0000 129	0.00652 0.0369 166	0.02461 0.0000 199	1.00000 0.0000 203	0.11523 0.0000 193	0.09696 0.0000 132	0.00743 0.0251 173
T_PHOS	0.03111 0.0000 202	-0.00233 0.6877 116	0.09926 0.0000 128	0.02143 0.0005 161	0.00270 0.1119 194	0.11523 0.0000 193	1.00000 0.0000 202	0.57117 0.0000 134	0.00461 0.0649 172
O_PHOS	0.01883 0.0021 141	-0.00217 0.5368 75	0.06063 0.0000 92	0.02861 0.0008 112	0.00159 0.2196 136	0.09696 0.0000 132	0.57117 0.0000 134	1.00000 0.0000 141	0.00328 0.1493 119
TOC	0.05762 0.0000 183	0.00473 0.1205 104	0.00497 0.1142 104	-0.00262 0.8622 149	0.00217 0.1532 174	0.00743 0.0251 173	0.00461 0.0649 172	0.00328 0.1493 119	1.00000 0.0000 183

STATION=21TXQB 10050200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	209	8264.49282297	1550.66482988	7767.00000000	6138.00000000	11547.00000000
FEC_C	129	557.79069767	1336.59752073	120.00000000	10.00000000	12000.00000000
TKN	131	1.86561030	0.80062329	1.73999977	0.33999997	5.19999981
NO2_N	163	0.23368709	0.24304279	0.13699996	0.01000000	1.30999947
NO3_N	198	0.42370702	0.41692259	0.29499996	0.01000000	4.31999969
N_AMMON	198	0.55531811	0.50359707	0.42999995	0.01000000	3.14999962
T_PHOS	195	0.87484087	0.39481539	0.79399997	0.03500000	2.44999981
O_PHOS	143	2.37161146	1.06960037	2.17899990	0.51400000	5.23299980
TOC	175	11.30285714	6.54557347	10.00000000	1.00000000	62.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.21207	0.03436	0.04590	0.45001	-0.35557	-0.30521	-0.20932	-0.21558
	0.0000	0.0158	0.6969	0.5607	0.0001	0.0001	0.0001	0.0121	0.0042
	209	129	131	163	198	198	195	143	175
FEC_C	-0.21207	1.00000	-0.05311	-0.20636	-0.13086	0.07362	-0.13114	-0.25962	-0.00817
	0.0158	0.0000	0.6464	0.0415	0.1491	0.4165	0.1516	0.0217	0.9331
	129	129	77	98	123	124	121	78	108
TKN	0.03436	-0.05311	1.00000	-0.12774	0.00367	0.48985	0.24235	0.15118	-0.14948
	0.6969	0.6464	0.0000	0.1941	0.9676	0.0001	0.0063	0.1480	0.1357
	131	77	131	105	125	127	126	93	101
NO2_N	0.04590	-0.20636	-0.12774	1.00000	0.16655	-0.15250	0.44774	0.55465	-0.02260
	0.5607	0.0415	0.1941	0.0000	0.0336	0.0550	0.0001	0.0001	0.7910
	163	98	105	163	163	159	152	115	140
NO3_N	0.45001	-0.13086	0.00367	0.16655	1.00000	-0.19394	0.08978	0.17502	-0.12121
	0.0001	0.1491	0.9676	0.0336	0.0000	0.0067	0.2217	0.0401	0.1187
	198	123	125	163	198	194	187	138	167
N_AMMON	-0.35557	0.07362	0.48985	-0.15250	-0.19394	1.00000	0.39173	0.27872	0.01579
	0.0001	0.4165	0.0001	0.0550	0.0067	0.0000	0.0001	0.0011	0.8395
	198	124	127	159	194	198	187	135	167
T_PHOS	-0.30521	-0.13114	0.24235	0.44774	0.08978	0.39173	1.00000	0.89099	-0.02231
	0.0001	0.1516	0.0063	0.0001	0.2217	0.0001	0.0000	0.0001	0.7767
	195	121	126	152	187	187	195	136	164
O_PHOS	-0.20932	-0.25962	0.15118	0.55465	0.17502	0.27872	0.89099	1.00000	-0.02003
	0.0121	0.0217	0.1480	0.0001	0.0401	0.0011	0.0001	0.0000	0.8281
	143	78	93	115	138	135	136	143	120
TOC	-0.21558	-0.00817	-0.14948	-0.02260	-0.12121	0.01579	-0.02231	-0.02003	1.00000
	0.0042	0.9331	0.1357	0.7910	0.1187	0.8395	0.7767	0.8281	0.0000
	175	108	101	140	167	167	164	120	175

STATION=21TXWQA 10050200

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 209	-0.15513 0.0792 129	0.02259 0.7978 131	0.15743 0.0448 163	0.50924 0.0001 198	-0.42608 0.0001 198	-0.28407 0.0001 195	-0.19632 0.0188 143	-0.35492 0.0001 175
FEC_C	-0.15513 0.0792 129	1.00000 0.0000 129	0.03968 0.7318 77	-0.38568 0.0001 98	-0.20376 0.0238 123	0.16365 0.0694 124	-0.16541 0.0698 121	-0.39108 0.0004 78	-0.00728 0.9404 108
TKN	0.02259 0.7978 131	0.03968 0.7318 77	1.00000 0.0000 131	-0.04616 0.6401 105	0.05237 0.5619 125	0.54107 0.0001 127	0.32707 0.0002 126	0.24451 0.0182 93	-0.01593 0.8744 101
NO2_N	0.15743 0.0448 163	-0.38568 0.0001 98	-0.04616 0.6401 105	1.00000 0.0000 163	0.25341 0.0011 163	-0.16386 0.0390 159	0.37559 0.0001 152	0.49000 0.0001 115	0.04293 0.6146 140
NO3_N	0.50924 0.0001 198	-0.20376 0.0238 123	0.05237 0.5619 125	0.25341 0.0011 163	1.00000 0.0000 198	-0.14938 0.0376 194	0.13135 0.0731 187	0.24991 0.0031 138	-0.14844 0.0556 167
N_AMMON	-0.42608 0.0001 198	0.16365 0.0694 124	0.54107 0.0001 127	-0.16386 0.0390 159	-0.14938 0.0376 194	1.00000 0.0000 198	0.37191 0.0001 187	0.31193 0.0002 135	0.11918 0.1250 167
T_PHOS	-0.28407 0.0001 195	-0.16541 0.0698 121	0.32707 0.0002 126	0.37559 0.0001 152	0.13135 0.0731 187	0.37191 0.0001 187	1.00000 0.0000 195	0.94332 0.0001 136	-0.00515 0.9478 164
O_PHOS	-0.19632 0.0188 143	-0.39108 0.0004 78	0.24451 0.0182 93	0.49000 0.0001 115	0.24991 0.0031 138	0.31193 0.0002 135	0.94332 0.0001 136	1.00000 0.0000 143	-0.00660 0.9430 120
TOC	-0.35492 0.0001 175	-0.00728 0.9404 108	-0.01593 0.8744 101	0.04293 0.6146 140	-0.14844 0.0556 167	0.11918 0.1250 167	-0.00515 0.9478 164	-0.00660 0.9430 120	1.00000 0.0000 175

STATION=21TXQB 10050200

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.00000 209	-0.10923 0.0705 129	0.02391 0.6890 131	0.11804 0.0268 163	0.34440 0.0001 198	-0.29029 0.0001 198	-0.18792 0.0001 195	-0.12630 0.0257 143	-0.27091 0.0000 175
FEC_C	-0.10923 0.0705 129	1.00000 0.00000 129	0.02286 0.7743 77	-0.26410 0.0002 98	-0.14409 0.0204 123	0.10641 0.0851 124	-0.12096 0.0531 121	-0.27761 0.0004 78	-0.00565 0.9340 108
TKN	0.02391 0.6890 131	0.02286 0.7743 77	1.00000 0.00000 131	-0.02563 0.7021 105	0.03830 0.5315 125	0.38957 0.0001 127	0.22458 0.0002 126	0.16467 0.0201 93	-0.00583 0.9341 101
NO2_N	0.11804 0.0268 163	-0.26410 0.0002 98	-0.02563 0.7021 105	1.00000 0.00000 163	0.17933 0.0008 163	-0.11275 0.0367 159	0.26584 0.0000 152	0.35632 0.0000 115	0.02488 0.6758 140
NO3_N	0.34440 0.0001 198	-0.14409 0.0204 123	0.03830 0.5315 125	0.17933 0.0008 163	1.00000 0.00000 198	-0.09303 0.0556 194	0.09203 0.0628 187	0.17343 0.0027 138	-0.10497 0.0522 167
N_AMMON	-0.29029 0.0001 198	0.10641 0.0851 124	0.38957 0.0001 127	-0.11275 0.0367 159	-0.09303 0.0556 194	1.00000 0.00000 198	0.25629 0.0000 187	0.21206 0.0003 135	0.08387 0.1201 167
T_PHOS	-0.18792 0.0001 195	-0.12096 0.0531 121	0.22458 0.0002 126	0.26584 0.0000 152	0.09203 0.0628 187	0.25629 0.0000 187	1.00000 0.0000 195	0.82526 0.0001 136	-0.00148 0.9783 164
O_PHOS	-0.12630 0.0257 143	-0.27761 0.0004 78	0.16467 0.0201 93	0.35632 0.0000 115	0.17343 0.0027 138	0.21206 0.0003 135	0.82526 0.0001 136	1.00000 0.0000 143	-0.00538 0.9328 120
TOC	-0.27091 0.0000 175	-0.00565 0.9340 108	-0.00583 0.9341 101	0.02488 0.6758 140	-0.10497 0.0522 167	0.08387 0.1201 167	-0.00148 0.9783 164	-0.00538 0.9328 120	1.00000 0.0000 175

STATION=21TXWQB 10050200

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 209	0.00811 0.0397 129	0.00129 0.2450 131	0.02072 0.0006 163	0.08528 0.0000 198	0.05695 0.0000 198	0.02141 0.0001 195	0.01195 0.0115 143	0.05341 0.0000 175
FEC_C	0.00811 0.0397 129	1.00000 0.0000 129	-0.00654 0.9754 77	0.04446 0.0001 98	0.01525 0.0085 123	0.00263 0.1717 124	0.00754 0.0515 121	0.05218 0.0002 78	-0.00375 0.8808 108
TKN	0.00129 0.2450 131	-0.00654 0.9754 77	1.00000 0.0000 131	0.00240 0.2026 105	-0.00069 0.4479 125	0.10252 0.0000 127	0.03430 0.0001 126	0.02003 0.0088 93	-0.00034 0.3955 101
NO2_N	0.02072 0.0006 163	0.04446 0.0001 98	0.00240 0.2026 105	1.00000 0.0000 163	0.01971 0.0008 163	0.00716 0.0331 159	0.05350 0.0000 152	0.09603 0.0000 115	-0.00182 0.6655 140
NO3_N	0.08528 0.0000 198	0.01525 0.0085 123	-0.00069 0.4479 125	0.01971 0.0008 163	1.00000 0.0000 198	0.01078 0.0057 194	0.00470 0.0546 187	0.02016 0.0017 138	0.00286 0.1234 167
N_AMMON	0.05695 0.0000 198	0.00263 0.1717 124	0.10252 0.0000 127	0.00716 0.0331 159	0.01078 0.0057 194	1.00000 0.0000 198	0.04042 0.0000 187	0.02398 0.0008 135	0.00087 0.2582 167
T_PHOS	0.02141 0.0001 195	0.00754 0.0515 121	0.03430 0.0001 126	0.05350 0.0000 152	0.00470 0.0546 187	0.04042 0.0000 187	1.00000 0.0000 195	0.62666 0.0000 136	-0.00277 0.9361 164
O_PHOS	0.01195 0.0115 143	0.05218 0.0002 78	0.02003 0.0088 93	0.09603 0.0000 115	0.02016 0.0017 138	0.02398 0.0008 135	0.62666 0.0000 136	1.00000 0.0000 143	-0.00323 0.1579 120
TOC	0.05341 0.0000 175	-0.00375 0.8808 108	-0.00034 0.3955 101	-0.00182 0.6655 140	0.00286 0.1234 167	0.00087 0.2582 167	-0.00277 0.9361 164	-0.00323 0.8579 120	1.00000 0.0000 175

STATION=21TXWQB 10050100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	238	8379.62184874	1560.66654586	8006.00000000	6138.00000000	11547.00000000
FEC_C	142	228.59859155	697.84288768	20.00000000	10.00000000	4000.00000000
TKN	171	1.52247332	0.75254151	1.39999962	0.04100000	6.39999962
NO2_N	130	0.10395383	0.10650529	0.06000000	0.01000000	0.47999996
NO3_N	226	0.29074333	0.67681999	0.20499998	0.01000000	9.91999912
N_AMMON	227	0.23377530	0.24003042	0.15999997	0.01000000	1.60999966
T_PHOS	225	0.53551551	0.22249944	0.50500000	0.15300000	1.62500000
O_PHOS	159	1.45774051	0.63290953	1.43209934	0.14399999	3.97999954
TOC	207	9.43478261	6.00924432	8.00000000	1.00000000	51.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.11590	0.27181	-0.06029	0.17947	-0.19780	-0.25902	-0.13724	-0.28444
	0.00000	0.1696	0.0003	0.4956	0.0068	0.0028	0.0001	0.0845	0.0001
	238	142	171	130	226	227	225	159	207
FEC_C	-0.11590	1.00000	-0.00506	-0.18206	-0.03130	0.16327	-0.04090	0.05848	0.12998
	0.1696	0.0000	0.9589	0.1834	0.7186	0.0566	0.6376	0.5862	0.1519
	142	142	106	55	135	137	135	89	123
TKN	0.27181	-0.00506	1.00000	0.09306	0.02494	0.16806	0.17202	0.07039	-0.08045
	0.0003	0.9589	0.0000	0.3857	0.7505	0.0299	0.0271	0.4508	0.3430
	171	106	171	89	165	167	165	117	141
NO2_N	-0.06029	-0.18206	0.09306	1.00000	0.07690	-0.03916	0.40577	0.35191	0.09996
	0.4956	0.1834	0.3857	0.0000	0.3864	0.6620	0.0001	0.0011	0.2794
	130	55	89	130	129	127	124	83	119
NO3_N	0.17947	-0.03130	0.02494	0.07690	1.00000	-0.02669	-0.01354	0.18369	-0.06692
	0.0068	0.7186	0.7505	0.3864	0.0000	0.6925	0.8431	0.0226	0.3489
	226	135	165	129	226	222	216	154	198
N_AMMON	-0.19780	0.16327	0.16806	-0.03916	-0.02669	1.00000	0.22793	0.14162	0.03692
	0.0028	0.0566	0.0299	0.6620	0.6925	0.0000	0.0007	0.0828	0.6046
	227	137	167	127	222	227	217	151	199
T_PHOS	-0.25902	-0.04090	0.17202	0.40577	-0.01354	0.22793	1.00000	0.84603	0.01429
	0.0001	0.6376	0.0271	0.0001	0.8431	0.0007	0.0000	0.0001	0.8420
	225	135	165	124	216	217	225	152	197
O_PHOS	-0.13724	0.05848	0.07039	0.35191	0.18369	0.14162	0.84603	1.00000	0.10191
	0.0845	0.5862	0.4508	0.0011	0.0226	0.0828	0.0001	0.0000	0.2360
	159	89	117	83	154	151	152	159	137
TOC	-0.28444	0.12998	-0.08045	0.09996	-0.06692	0.03692	0.01429	0.10191	1.00000
	0.0001	0.1519	0.3430	0.2794	0.3489	0.6046	0.8420	0.2360	0.0000
	207	123	141	119	198	199	197	137	207

STATION=21TXWQB 10050100

SPEARMAN CORRELATION COEFFICIENTS / PROB > |P| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.0000 238	0.02007 0.8126 142	0.38289 0.0001 171	0.00215 0.9806 130	0.34044 0.0001 226	-0.15220 0.0218 227	-0.26769 0.0001 225	-0.14464 0.0689 159	-0.37681 0.0001 207
FEC_C	0.02007 0.8126 142	1.00000 0.0000 142	0.07645 0.4360 106	-0.02451 0.8590 55	0.25138 0.0033 135	0.25770 0.0024 137	0.01938 0.8234 135	0.08013 0.4554 89	0.00684 0.9402 123
TKN	0.38289 0.0001 171	0.07645 0.4360 106	1.00000 0.0000 171	0.13116 0.2205 89	0.23219 0.0027 165	0.13884 0.0735 167	0.13798 0.0772 165	0.04927 0.5978 117	-0.12035 0.1552 141
NO2_N	0.00215 0.9806 130	-0.02451 0.8590 55	0.13116 0.2205 89	1.00000 0.0000 130	0.21616 0.0139 129	-0.02912 0.7452 127	0.45059 0.0001 124	0.32984 0.0023 83	0.09569 0.3006 119
NO3_N	0.34044 0.0001 226	0.25138 0.0033 135	0.23219 0.0027 165	0.21616 0.0139 129	1.00000 0.0000 226	0.22229 0.0009 222	0.14817 0.0295 216	0.24757 0.0020 154	-0.00359 0.9599 198
N_AMMON	-0.15220 0.0218 227	0.25770 0.0024 137	0.13884 0.0735 167	-0.02912 0.7452 127	0.22229 0.0009 222	1.00000 0.0000 227	0.12150 0.0741 217	0.12561 0.1244 151	-0.01489 0.8347 199
T_PHOS	-0.26769 0.0001 225	0.01938 0.8234 135	0.13798 0.0772 165	0.45059 0.0001 124	0.14817 0.0295 216	0.12150 0.0741 217	1.00000 0.0000 225	0.86708 0.0001 152	0.09094 0.2038 197
O_PHOS	-0.14464 0.0689 159	0.08013 0.4554 89	0.04927 0.5978 117	0.32984 0.0023 83	0.24757 0.0020 154	0.12561 0.1244 151	0.86708 0.0001 152	1.00000 0.0000 159	0.12086 0.1595 137
TOC	-0.37681 0.0001 207	0.00684 0.9402 123	-0.12035 0.1552 141	0.09569 0.3006 119	-0.00359 0.9599 198	-0.01489 0.8347 199	0.09094 0.2038 197	0.12086 0.1595 137	1.00000 0.0000 207

STATION=21TXWQB 10050100

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000 0.00000 238	0.01590 0.7917 142	0.24729 0.0000 171	0.00636 0.9165 130	0.24159 0.0000 226	-0.10609 0.0181 227	-0.18034 0.0001 225	-0.10088 0.0599 159	-0.27380 0.0000 207
FEC_C	0.01590 0.7917 142	1.00000 0.0000 142	0.06027 0.3984 106	-0.02736 0.7864 55	0.17329 0.0053 135	0.18638 0.0025 137	0.01783 0.7737 135	0.05760 0.4562 89	0.00467 0.9443 123
TKN	0.24729 0.0000 171	0.06027 0.3984 106	1.00000 0.0000 171	0.08988 0.2253 89	0.16131 0.0025 165	0.09736 0.0669 167	0.09833 0.0646 165	0.03301 0.6022 117	-0.08693 0.1433 141
NO2_N	0.00636 0.9165 130	-0.02736 0.7864 55	0.08988 0.2253 89	1.00000 0.0000 130	0.15408 0.0120 129	-0.01884 0.7603 127	0.31878 0.0000 124	0.22939 0.0026 83	0.06431 0.3250 119
NO3_N	0.24159 0.0000 226	0.17329 0.0053 135	0.16131 0.0025 165	0.15408 0.0120 129	1.00000 0.0000 226	0.15373 0.0008 222	0.09993 0.0300 216	0.16576 0.0025 154	-0.00048 0.9923 198
N_AMMON	-0.10609 0.0181 227	0.18638 0.0025 137	0.09736 0.0669 167	-0.01884 0.7603 127	0.15373 0.0008 222	1.00000 0.0000 227	0.08458 0.0655 217	0.08938 0.1054 151	-0.00899 0.8558 199
T_PHOS	-0.18034 0.0001 225	0.01783 0.7737 135	0.09833 0.0646 165	0.31878 0.0000 124	0.09993 0.0300 216	0.08458 0.0655 217	1.00000 0.0000 225	0.74711 0.0001 152	0.06540 0.1864 197
O_PHOS	-0.10088 0.0599 159	0.05760 0.4562 89	0.03301 0.6022 117	0.22939 0.0026 83	0.16576 0.0025 154	0.08938 0.1054 151	0.74711 0.0001 152	1.00000 0.0000 159	0.08550 0.1525 137
TOC	-0.27380 0.0000 207	0.00467 0.9443 123	-0.08693 0.1433 141	0.06431 0.3250 119	-0.00048 0.9923 198	-0.00899 0.8558 199	0.06540 0.1864 197	0.08550 0.1525 137	1.00000 0.0000 207

STATION=21TXWB 10050100

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	FEC_C	TKN	NO2_N	NO3_N	N_AMMON	T_PHOS	O_PHOS	TOC
DATE	1.00000	-0.00200	0.04181	0.00119	0.04903	0.00972	0.01989	0.00585	0.05068
	0.0000	0.7090	0.0000	0.2531	0.0000	0.0046	0.0001	0.0496	0.0000
	238	142	171	130	226	227	225	159	207
FEC_C	-0.00200	1.00000	-0.00148	-0.00116	0.01390	0.01956	-0.00163	-0.00618	-0.00357
	0.7090	0.0000	0.5302	0.4240	0.0085	0.0020	0.6147	0.9937	0.9207
	142	142	106	55	135	137	135	89	123
TKN	0.04181	-0.00148	1.00000	0.00159	0.01601	0.00517	0.00223	-0.00339	0.00339
	0.0000	0.5302	0.0000	0.2610	0.0022	0.0565	0.1564	0.8698	0.1237
	171	106	171	89	165	167	165	117	141
NO2_N	0.00119	-0.00116	0.00159	1.00000	0.01835	-0.00171	0.06451	0.03022	-0.00243
	0.2531	0.4240	0.2610	0.0000	0.0035	0.6105	0.0000	0.0028	0.7155
	130	55	89	130	129	127	124	83	119
NO3_N	0.04903	0.01390	0.01601	0.01835	1.00000	0.01980	0.00508	0.01599	-0.00221
	0.0000	0.0085	0.0022	0.0035	0.0000	0.0001	0.0358	0.0030	0.9211
	226	135	165	129	226	222	216	154	198
N_AMMON	0.00972	0.01956	0.00517	-0.00171	0.01980	1.00000	0.00330	0.00336	0.00039
	0.0046	0.0020	0.0565	0.6105	0.0001	0.0000	0.0754	0.1160	0.3021
	227	137	167	127	222	227	217	151	199
T_PHOS	0.01989	-0.00163	0.00223	0.06451	0.00508	0.00330	1.00000	0.50186	0.00178
	0.0001	0.6147	0.1564	0.0000	0.0358	0.0754	0.0000	0.0000	0.1625
	225	135	165	124	216	217	225	152	197
O_PHOS	0.00585	-0.00618	-0.00339	0.03022	0.01599	0.00336	0.50186	1.00000	0.00063
	0.0496	0.9937	0.8698	0.0028	0.0030	0.1160	0.0000	0.0000	0.2965
	159	89	117	83	154	151	152	159	137
TOC	0.05068	-0.00357	0.00339	-0.00243	-0.00221	0.00039	0.00178	0.00063	1.00000
	0.0000	0.9207	0.1237	0.7155	0.9211	0.3021	0.1625	0.2965	0.0000
	207	123	141	119	198	199	197	137	207

SAS

10:12 TUESDAY, FEBRUARY 18, 1992

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STATION=21TXWQB 10070800

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	91	7021.56043956	1693.59393801	6354.00000000	4940.00000000	11101.00000000
AS	67	22.07970135	34.87121163	12.00000000	1.00000000	189.00000000
CU	91	10.45054945	5.33179923	10.00000000	1.00000000	30.00000000
CK	85	23.98823529	20.85008514	20.00000000	4.00000000	150.00000000
CU	91	176.06593407	173.24669644	140.00000000	1.00000000	660.00000000
PS	90	55.92333333	46.31485808	50.00000000	6.00000000	262.00000000
NI	49	118.89795918	90.57139102	120.00000000	4.00000000	490.00000000
AG	68	11.04411765	8.66875298	10.00000000	1.00000000	50.00000000
ZN	72	236.45833333	275.59793829	145.00000000	21.00000000	1320.00000000
SE	14	6.21428571	6.29014579	4.00000000	2.00000000	20.00000000
HG	91	0.45505490	0.51824347	0.22999996	0.02000000	3.63999939

STATION=21TXWQB 10070800

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 91	-0.43989 0.0002 67	-0.29736 0.0042 91	-0.10066 0.3593 85	-0.41307 0.0001 91	-0.33218 0.0014 90	-0.62310 0.0001 49	-0.27278 0.0244 68	-0.30000 0.0105 72	0.26351 0.3627 14	-0.37641 0.0002 91
AS	-0.43989 0.0002 67	1.00000 0.0000 67	0.10018 0.4199 67	-0.06263 0.6316 61	0.24673 0.0441 67	0.44427 0.0002 66	0.59807 0.0016 25	0.20140 0.1899 44	-0.00359 0.9807 48	0.28781 0.3184 14	0.23597 0.0546 67
CD	-0.29736 0.0042 91	0.10018 0.4199 67	1.00000 0.0000 91	0.07378 0.5022 85	0.07501 0.4798 91	0.14847 0.1625 90	0.24795 0.0858 49	0.15707 0.2008 68	0.13697 0.2513 72	0.04816 0.8701 14	0.03431 0.7468 91
CR	-0.10066 0.3593 85	-0.06263 0.6316 61	0.07378 0.5022 85	1.00000 0.0000 85	-0.12135 0.2686 85	-0.04231 0.7024 84	0.17272 0.2353 49	0.19843 0.1048 68	0.01712 0.8865 72	-0.20578 0.4803 14	0.20078 0.0654 85
CU	-0.41307 0.0001 91	0.24673 0.0441 67	0.07501 0.4798 91	-0.12135 0.2686 85	1.00000 0.0000 91	0.36082 0.0005 90	0.59465 0.0001 49	0.04368 0.7236 68	0.55434 0.0001 72	-0.11260 0.7015 14	0.01917 0.8569 91
PB	-0.33218 0.0014 90	0.44427 0.0002 66	0.14847 0.1625 90	-0.04231 0.7024 84	0.36082 0.0005 90	1.00000 0.0000 90	0.38334 0.0066 49	0.14957 0.2270 67	0.16251 0.1757 71	0.32725 0.2534 14	0.06333 0.5532 90
NI	-0.62310 0.0001 49	0.59807 0.0016 25	0.24795 0.0858 49	0.17272 0.2353 49	0.59465 0.0001 49	0.38334 0.0066 49	1.00000 0.0000 49	0.13554 0.3531 49	0.68698 0.0001 49	0.00544 0.9853 14	0.15278 0.2946 49
AG	-0.27278 0.0244 68	0.20140 0.1899 44	0.15707 0.2008 68	0.19843 0.1048 68	0.04368 0.7236 68	0.14957 0.2270 67	0.13554 0.3531 49	1.00000 0.0000 68	-0.01253 0.9192 68	0.13494 0.6456 14	0.41816 0.0004 68
ZN	-0.30000 0.0105 72	-0.00359 0.9807 48	0.13697 0.2513 72	0.01712 0.8865 72	0.55434 0.0001 72	0.16251 0.1757 71	0.68698 0.0001 49	-0.01253 0.9192 68	1.00000 0.0000 72	-0.17116 0.5585 14	-0.13592 0.2549 72
SE	0.26351 0.3627 14	0.28781 0.3184 14	0.04816 0.8701 14	-0.20578 0.4803 14	-0.11260 0.7015 14	0.32725 0.2534 14	0.00544 0.9853 14	0.13494 0.6456 14	-0.17116 0.5585 14	1.00000 0.0000 14	-0.11485 0.6958 14
HG	-0.37641 0.0002 91	0.23597 0.0546 67	0.03431 0.7468 91	0.20078 0.0654 85	0.01917 0.8569 91	0.06333 0.5532 90	0.15278 0.2946 49	0.41816 0.0004 68	-0.13592 0.2549 72	-0.11485 0.6958 14	1.00000 0.0000 91

STATION=21TXWQ9 10070800

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 91	-0.57040 0.0001 67	-0.20366 0.0528 91	-0.15333 0.1612 85	-0.51725 0.0001 91	-0.37439 0.0003 90	-0.46129 0.0009 49	-0.19600 0.1092 68	-0.42776 0.0002 72	0.22663 0.4359 14	-0.49843 0.0001 91
AS	-0.57040 0.0001 67	1.00000 0.0000 67	0.31985 0.0083 67	0.30659 0.0163 61	0.31150 0.0103 67	0.42596 0.0004 66	0.83140 0.0001 25	0.53950 0.0002 44	0.45386 0.0012 48	0.57738 0.0306 14	0.08040 0.5178 67
CD	-0.20366 0.0528 91	0.31985 0.0083 67	1.00000 0.0000 91	0.20299 0.0624 85	0.20773 0.0482 91	0.35439 0.0006 90	0.38345 0.0065 49	0.25437 0.0363 68	0.27915 0.0176 72	-0.02364 0.9361 14	0.12960 0.2208 91
CR	-0.15333 0.1612 85	0.30659 0.0163 61	0.20299 0.0624 85	1.00000 0.0000 85	0.06854 0.5331 85	0.21239 0.0524 84	0.36569 0.0098 49	0.27637 0.0225 68	0.23549 0.0464 72	-0.17140 0.5580 14	0.00777 0.9438 85
CU	-0.51725 0.0001 91	0.31150 0.0103 67	0.20773 0.0482 91	0.06854 0.5331 85	1.00000 0.0000 91	0.36194 0.0005 90	0.68793 0.0001 49	0.17021 0.1652 68	0.70711 0.0001 72	0.08320 0.7774 14	0.20440 0.0520 91
PB	-0.37439 0.0003 90	0.42596 0.0004 66	0.35439 0.0006 90	0.21239 0.0524 84	0.36194 0.0005 90	1.00000 0.0000 90	0.57382 0.0001 49	0.24503 0.0457 67	0.37059 0.0015 71	0.11671 0.6911 14	0.38416 0.0002 90
NI	-0.46129 0.0009 49	0.83140 0.0001 25	0.38345 0.0065 49	0.36569 0.0098 49	0.68793 0.0001 49	0.57382 0.0001 49	1.00000 0.0000 49	0.19680 0.1753 49	0.72005 0.0001 49	0.30737 0.2851 14	0.36765 0.0094 49
AG	-0.19600 0.1092 68	0.53950 0.0002 44	0.25437 0.0363 68	0.27637 0.0225 63	0.17021 0.1652 68	0.24503 0.0457 67	0.19680 0.1753 49	1.00000 0.0000 68	0.13684 0.2658 68	0.29367 0.3082 14	0.27424 0.0236 68
ZN	-0.42776 0.0002 72	0.45386 0.0012 48	0.27915 0.0176 72	0.23549 0.0464 72	0.70711 0.0001 72	0.37059 0.0015 71	0.72005 0.0001 49	0.13684 0.2658 68	1.00000 0.0000 72	-0.03903 0.8946 14	0.14301 0.2308 72
SE	0.22663 0.4359 14	0.57738 0.0306 14	-0.02364 0.9361 14	-0.17140 0.5580 14	0.08320 0.7774 14	0.11671 0.6911 14	0.30737 0.2851 14	0.29367 0.3082 14	-0.03903 0.8946 14	1.00000 0.0000 14	-0.38487 0.1742 14
HG	-0.49843 0.0001 91	0.08040 0.5178 67	0.12960 0.2208 91	0.00777 0.9438 85	0.20440 0.0520 91	0.38416 0.0002 90	0.36765 0.0094 49	0.27424 0.0236 68	0.14301 0.2308 72	-0.38487 0.1742 14	1.00000 0.0000 91

STATION=21TXWQB 10070800

KENDALL TAU B CORRELATION COEFFICIENTS / PROG > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 91	-0.39103 0.0000 67	-0.14526 0.0726 91	-0.09952 0.2173 85	-0.33698 0.0000 91	-0.28025 0.0002 90	-0.28081 0.0049 49	-0.16094 0.0833 68	-0.27762 0.0006 72	0.14888 0.4889 14	-0.36849 0.0000 91
AS	-0.39103 0.0000 67	1.00000 0.0000 67	0.24813 0.0095 67	0.24150 0.0130 61	0.21887 0.0116 67	0.32098 0.0003 66	0.63033 0.0000 25	0.42142 0.0003 44	0.30856 0.0026 48	0.43419 0.0479 14	0.05385 0.5661 67
CD	-0.14526 0.0726 91	0.24813 0.0095 67	1.00000 0.0000 91	0.16679 0.0693 85	0.16502 0.0436 91	0.29369 0.0006 90	0.31344 0.0056 49	0.22180 0.0336 68	0.21506 0.0180 72	0.00000 1.0000 14	0.10341 0.2366 91
CR	-0.09952 0.2173 85	0.24150 0.0130 61	0.16679 0.0693 85	1.00000 0.0000 85	0.04710 0.5630 85	0.15484 0.0679 84	0.27998 0.0100 49	0.24566 0.0137 68	0.16626 0.0562 72	-0.15605 0.4824 14	0.00481 0.9557 85
CU	-0.33698 0.0000 91	0.21887 0.0116 67	0.16502 0.0436 91	0.04710 0.5630 85	1.00000 0.0000 91	0.26406 0.0005 90	0.50890 0.0000 49	0.13543 0.1486 68	0.52167 0.0001 72	0.05048 0.8167 14	0.15123 0.0517 91
PB	-0.28025 0.0002 90	0.32098 0.0003 66	0.29369 0.0006 90	0.15484 0.0679 84	0.26406 0.0005 90	1.00000 0.0000 90	0.42049 0.0001 49	0.18380 0.0634 67	0.26819 0.0018 71	0.07573 0.7280 14	0.29974 0.0002 90
NI	-0.28081 0.0049 49	0.63033 0.0000 25	0.31344 0.0056 49	0.27998 0.0100 49	0.50890 0.0000 49	0.42049 0.0001 49	1.00000 0.0000 49	0.14698 0.1891 49	0.56063 0.0000 49	0.25242 0.2464 14	0.27759 0.0081 49
AG	-0.16094 0.0833 68	0.42142 0.0003 44	0.22180 0.0336 68	0.24566 0.0137 68	0.13543 0.1486 68	0.18380 0.0634 67	0.14698 0.1891 49	1.00000 0.0000 68	0.10630 0.2556 68	0.22823 0.3136 14	0.21964 0.0260 68
ZN	-0.27762 0.0006 72	0.30856 0.0026 48	0.21506 0.0180 72	0.16526 0.0562 72	0.52167 0.0001 72	0.26819 0.0018 71	0.56063 0.0000 49	0.10630 0.2556 68	1.00000 0.0000 72	-0.03681 0.8630 14	0.10530 0.2207 72
SE	0.14888 0.4889 14	0.43419 0.0479 14	0.00000 1.0000 14	-0.15605 0.4824 14	0.05048 0.8167 14	0.07573 0.7280 14	0.25242 0.2464 14	0.22823 0.3136 14	-0.03681 0.8630 14	1.00000 0.0000 14	-0.31695 0.1721 14
HG	-0.36849 0.0000 91	0.05385 0.5661 67	0.10341 0.2366 91	0.00481 0.9557 85	0.15123 0.0517 91	0.29974 0.0002 90	0.27759 0.0081 49	0.21964 0.0260 68	0.10530 0.2207 72	-0.31695 0.1721 14	1.00000 0.0000 91

STATION=21TXWQH 10070800

HOEFFDING DEPENDENCE COEFFICIENTS / PRCB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 91	0.09840 0.0000 67	0.00386 0.1624 91	0.00732 0.0921 85	0.10440 0.0000 91	0.05454 0.0000 90	0.05365 0.0024 49	0.00766 0.1140 68	0.07329 0.0000 72	-0.05886 1.0000 14	0.07010 0.0000 91
AS	0.09840 0.0000 67	1.00000 0.0000 67	0.01775 0.0307 67	0.02932 0.0103 61	0.03340 0.0046 67	0.05348 0.0005 66	0.26630 0.0000 25	0.06953 0.0011 44	0.05909 0.0017 48	0.04472 0.0988 14	-0.00620 0.8904 67
CD	0.00386 0.1624 91	0.01775 0.0307 67	1.00000 0.0000 91	-0.00482 0.8854 85	0.00372 0.1676 91	0.01811 0.0134 90	0.02191 0.0386 49	-0.00263 0.5577 68	0.00799 0.1017 72	-0.05260 1.0000 14	-0.00786 1.0000 91
CR	0.00732 0.0921 85	0.02932 0.0103 61	-0.00482 0.8854 85	1.00000 0.0000 85	-0.00356 0.7337 85	0.00469 0.1487 84	0.02631 0.0258 49	0.00693 0.1264 68	0.00564 0.1451 72	-0.05246 1.0000 14	-0.00993 1.0000 85
CU	0.10440 0.0000 91	0.03340 0.0046 67	0.00372 0.1676 91	-0.00356 0.7337 85	1.00000 0.0000 91	0.03168 0.0015 90	0.18620 0.0000 49	-0.00393 0.6809 68	0.18216 0.0000 72	-0.04411 0.9982 14	0.01189 0.0373 91
PB	0.05454 0.0000 90	0.05348 0.0005 66	0.01811 0.0134 90	0.00469 0.1487 84	0.03168 0.0015 90	1.00000 0.0000 90	0.09159 0.0001 49	-0.00292 0.5798 67	0.03904 0.0018 71	-0.06204 1.0000 14	0.03533 0.0009 90
NI	0.05365 0.0024 49	0.26630 0.0000 25	0.02191 0.0386 49	0.02631 0.0258 49	0.18620 0.0000 49	0.09159 0.0001 49	1.00000 0.0000 49	-0.01096 0.9887 49	0.22208 0.0000 49	-0.03337 0.9188 14	0.05433 0.0022 49
AG	0.00766 0.1140 68	0.06953 0.0011 44	-0.00263 0.5577 68	0.00693 0.1264 68	-0.00393 0.6809 68	-0.00292 0.5798 67	-0.01096 0.9887 49	1.00000 0.0000 68	-0.00472 0.7601 68	-0.04718 0.9999 14	0.00366 0.2047 68
ZN	0.07329 0.0000 72	0.05909 0.0017 48	0.00799 0.1017 72	0.00564 0.1451 72	0.18216 0.0000 72	0.03904 0.0018 71	0.22208 0.0000 49	-0.00472 0.7601 68	1.00000 0.0000 72	-0.03715 0.9626 14	0.02116 0.0165 72
SE	-0.05886 1.0000 14	0.04472 0.0988 14	-0.05260 1.0000 14	-0.05246 0.9982 14	-0.04411 0.9982 14	-0.06204 1.0000 14	-0.03337 0.9188 14	-0.04718 0.9999 14	-0.03715 0.9626 14	1.00000 0.0000 14	-0.03826 0.9755 14
HG	0.07010 0.0000 91	-0.00620 0.8904 67	-0.00786 1.0000 91	-0.00993 1.0000 85	0.01189 0.0373 91	0.03533 0.0009 90	0.05433 0.0022 49	0.00366 0.2047 68	0.02116 0.0165 72	-0.03826 0.9755 14	1.00000 0.0000 91

STATION=21TXWQ3 10060200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	46	7948.54347826	1470.45706736	7666.00000000	6138.00000000	11101.00000000
AS	46	22.56173884	18.83951848	19.00000000	1.00000000	95.00000000
CU	46	11.39130435	7.04423566	10.00000000	1.00000000	40.00000000
CR	39	39.87179487	94.63424869	20.00000000	8.00000000	610.00000000
CU	46	82.28260870	115.18095194	22.50000000	1.00000000	500.00000000
PH	45	39.23888889	28.99735272	48.00000000	5.00000000	150.00000000
NI	11	17.54545455	16.46428642	15.00000000	2.00000000	55.00000000
AG	11	13.09090909	10.59674049	16.00000000	2.00000000	30.00000000
ZN	14	79.28571429	61.02638593	52.50000000	20.00000000	225.00000000
SE	11	17.07272478	21.37779325	5.00000000	2.00000000	70.39999390
HG	46	0.41826083	0.81132065	0.19999999	0.19999999	5.59999943

STATION=21TXWQB 10060200

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 46	-0.48914 0.0006 46	-0.22200 0.1381 46	-0.20016 0.2218 39	-0.39148 0.0071 46	-0.00141 0.9926 45	0.21345 0.5286 11	0.47017 0.1445 11	-0.49755 0.0702 14	0.22531 0.5053 11	-0.09978 0.5094 46
AS	-0.48914 0.0006 46	1.00000 0.0000 46	0.16430 0.2752 46	0.21030 0.1988 39	0.14977 0.3205 46	-0.04959 0.7463 45	0.03999 0.9071 11	-0.12348 0.7176 11	0.77286 0.0012 14	0.16449 0.6289 11	-0.14648 0.3314 46
CD	-0.22200 0.1381 46	0.16430 0.2752 46	1.00000 0.0000 46	-0.02355 0.8868 39	0.02413 0.8735 46	0.09998 0.5135 45	-0.23404 0.4885 11	-0.11071 0.7459 11	0.12622 0.6672 14	0.01722 0.9599 11	-0.07166 0.6360 46
CR	-0.20016 0.2218 39	0.21030 0.1988 39	-0.02355 0.8868 39	1.00000 0.0000 39	0.34703 0.0304 39	-0.15619 0.3491 38	0.21894 0.5178 11	0.32224 0.3338 11	0.31244 0.2768 14	0.50763 0.1109 11	-0.05916 0.7205 39
CU	-0.39148 0.0071 46	0.14977 0.3205 46	0.02413 0.8735 46	0.34703 0.0304 39	1.00000 0.0000 46	0.18094 0.2342 45	0.12742 0.7089 11	0.59696 0.0525 11	0.53873 0.0468 14	0.32973 0.3221 11	-0.01818 0.9046 46
PB	-0.00141 0.9926 45	-0.04959 0.7463 45	0.09998 0.5135 45	-0.15619 0.3491 38	0.18094 0.2342 45	1.00000 0.0000 45	0.22920 0.4978 11	0.65728 0.0280 11	0.31796 0.2679 14	0.67723 0.0221 11	-0.11802 0.4400 45
NI	0.21345 0.5286 11	0.03999 0.9071 11	-0.23404 0.4885 11	0.21894 0.5178 11	0.12742 0.7089 11	0.22920 0.4978 11	1.00000 0.0000 11	0.04554 0.8942 11	-0.02680 0.9376 11	-0.01990 0.9537 11	0.60554 0.0483 11
AG	0.47017 0.1445 11	-0.12348 0.7176 11	-0.11071 0.7459 11	0.32224 0.3338 11	0.59696 0.0525 11	0.65728 0.0280 11	0.04554 0.8942 11	1.00000 0.0000 11	0.14810 0.6639 11	0.76541 0.0060 11	-0.10878 0.7502 11
ZN	-0.49755 0.0702 14	0.77286 0.0012 14	0.12622 0.6672 14	0.31244 0.2768 14	0.53873 0.0468 14	0.31796 0.2679 14	-0.02680 0.9376 11	0.14810 0.6639 11	1.00000 0.0000 14	0.34813 0.2941 11	-0.04831 0.8697 14
SE	0.22531 0.5053 11	0.16449 0.6289 11	0.01722 0.9599 11	0.50763 0.1109 11	0.32973 0.3221 11	0.67723 0.0221 11	-0.01990 0.9537 11	0.76541 0.0060 11	0.34813 0.2941 11	1.00000 0.0000 11	-0.12042 0.7243 11
HG	-0.09978 0.5094 46	-0.14648 0.3314 46	-0.07166 0.6360 46	-0.05916 0.7205 39	-0.01818 0.9046 46	-0.11802 0.4400 45	0.60554 0.0483 11	-0.10878 0.7502 11	-0.04831 0.8697 14	-0.12042 0.7243 11	1.00000 0.0000 46

STATION=21TXWQB 10060200

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 46	-0.55874 0.0001 46	-0.31373 0.0337 46	-0.17895 0.2757 39	-0.54887 0.0001 46	0.13890 0.3628 45	0.40553 0.2159 11	0.61968 0.0420 11	-0.58029 0.0296 14	0.51153 0.1078 11	0.10959 0.4685 46
AS	-0.55874 0.0001 46	1.00000 0.0000 46	0.20755 0.1663 46	0.24355 0.1351 39	0.28095 0.0586 46	0.05979 0.6964 45	0.30023 0.3697 11	-0.23469 0.4873 11	0.55543 0.0392 14	0.18476 0.5865 11	-0.31472 0.0332 46
CD	-0.31373 0.0337 46	0.20755 0.1663 46	1.00000 0.0000 46	0.26108 0.1084 39	0.25543 0.0867 46	0.31158 0.0372 45	-0.25386 0.4513 11	0.18365 0.5888 11	0.66750 0.0091 14	0.09671 0.7773 11	-0.15902 0.2912 46
CR	-0.17895 0.2757 39	0.24355 0.1351 39	0.26108 0.1084 39	1.00000 0.0000 39	0.25402 0.1187 39	0.36989 0.0223 38	0.51292 0.1066 11	0.54333 0.0841 11	0.38567 0.1732 14	0.71668 0.0131 11	-0.18548 0.2583 39
CU	-0.54887 0.0001 46	0.28095 0.0586 46	0.25543 0.0867 46	0.25402 0.1187 39	1.00000 0.0000 46	0.15186 0.3193 45	0.23788 0.4812 11	0.65429 0.0289 11	0.37251 0.1896 14	0.32795 0.3248 11	-0.17903 0.2339 46
PB	0.13890 0.3628 45	0.05979 0.6964 45	0.31158 0.0372 45	0.36989 0.0223 38	0.15186 0.3193 45	1.00000 0.0000 45	0.03376 0.9215 11	0.50996 0.1090 11	0.51140 0.0616 14	0.54021 0.0862 11	-0.06051 0.6930 45
NI	0.40553 0.2159 11	0.30023 0.3697 11	-0.25386 0.4513 11	0.51292 0.1066 11	0.23788 0.4812 11	0.03376 0.9215 11	1.00000 0.0000 11	0.20435 0.5467 11	0.03016 0.9298 11	0.33333 0.3165 11	0.08527 0.8031 11
AG	0.61968 0.0420 11	-0.23469 0.4873 11	0.18365 0.5888 11	0.54333 0.0841 11	0.65429 0.0289 11	0.50996 0.1090 11	0.20435 0.5467 11	1.00000 0.0000 11	0.14052 0.6803 11	0.78412 0.0043 11	-0.36557 0.2689 11
ZN	-0.58029 0.0296 14	0.55543 0.0392 14	0.66750 0.0091 14	0.38567 0.1732 14	0.37251 0.1896 14	0.51140 0.0616 14	0.03016 0.9298 11	0.14052 0.6803 11	1.00000 0.0000 14	0.24130 0.4747 11	-0.22669 0.4358 14
SE	0.51153 0.1078 11	0.18476 0.5865 11	0.09671 0.7773 11	0.71668 0.0131 11	0.32795 0.3248 11	0.54021 0.0862 11	0.33333 0.3165 11	0.78412 0.0043 11	0.24130 0.4747 11	1.00000 0.0000 11	-0.32103 0.3358 11
HG	0.10959 0.4685 46	-0.31472 0.0332 46	-0.15902 0.2912 46	-0.18548 0.2583 39	-0.17903 0.2339 46	-0.06051 0.6930 45	0.08527 0.8031 11	-0.36557 0.2689 11	-0.22669 0.4358 14	-0.32103 0.3358 11	1.00000 0.0000 46

STATION=21TXWQB 10060200

KENDALL TAU B CORRELATION COEFFICIENTS / PRCB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 46	-0.40063 0.0001 46	-0.23725 0.0376 46	-0.11169 0.3485 39	-0.39654 0.0001 46	0.08291 0.4430 45	0.32698 0.1778 11	0.38905 0.1209 11	-0.48867 0.0174 14	0.34287 0.1540 11	0.08370 0.4654 46
AS	-0.40063 0.0001 46	1.00000 0.0000 46	0.15008 0.1940 46	0.16985 0.1587 39	0.20011 0.0578 46	0.03716 0.7342 45	0.23302 0.3401 11	-0.20672 0.4130 11	0.40001 0.0526 14	0.13462 0.5782 11	-0.24011 0.0386 46
CD	-0.23725 0.0376 46	0.15008 0.1940 46	1.00000 0.0000 46	0.22182 0.0959 39	0.19855 0.0881 46	0.26410 0.0293 45	-0.17083 0.5038 11	0.13640 0.6061 11	0.53535 0.0162 14	0.10574 0.6762 11	-0.13786 0.2826 46
CR	-0.11169 0.3485 39	0.16985 0.1587 39	0.22182 0.0959 39	1.00000 0.0000 39	0.19515 0.1066 39	0.29951 0.0183 38	0.36380 0.1458 11	0.49488 0.0558 11	0.29781 0.1606 14	0.54043 0.0293 11	-0.15113 0.2546 39
CU	-0.39654 0.0001 46	0.20011 0.0578 46	0.19855 0.0881 46	0.19515 0.1066 39	1.00000 0.0000 46	0.08831 0.4233 45	0.21360 0.3818 11	0.51681 0.0407 11	0.29715 0.1499 14	0.26923 0.2661 11	-0.14063 0.2292 46
PB	0.08291 0.4430 45	0.03716 0.7342 45	0.26410 0.0293 45	0.29951 0.0183 38	0.08831 0.4233 45	1.00000 0.0000 45	0.04321 0.8675 11	0.41404 0.1225 11	0.43701 0.0413 14	0.47076 0.0665 11	-0.04614 0.7032 45
NI	0.32698 0.1778 11	0.23302 0.3401 11	-0.17083 0.5038 11	0.36380 0.1458 11	0.21360 0.3818 11	0.04321 0.8675 11	1.00000 0.0000 11	0.06262 0.8055 11	0.05882 0.8106 11	0.27186 0.2647 11	0.06727 0.7946 11
AG	0.38905 0.1209 11	-0.20672 0.4130 11	0.13640 0.6061 11	0.49488 0.0558 11	0.51681 0.0407 11	0.41404 0.1225 11	0.06262 0.8055 11	1.00000 0.0000 11	0.10437 0.6808 11	0.68219 0.0068 11	-0.33419 0.2117 11
ZN	-0.48867 0.0174 14	0.40001 0.0526 14	0.53535 0.0162 14	0.29781 0.1606 14	0.29715 0.1499 14	0.43701 0.0413 14	0.05882 0.8106 11	0.10437 0.6808 11	1.00000 0.0000 14	0.23302 0.3380 11	-0.14977 0.4984 14
SE	0.34287 0.1540 11	0.13462 0.5782 11	0.10574 0.6762 11	0.54043 0.0293 11	0.26923 0.2661 11	0.47076 0.0665 11	0.27186 0.2647 11	0.68219 0.0068 11	0.23302 0.3380 11	1.00000 0.0000 11	-0.26647 0.2980 11
HG	0.08370 0.4654 46	-0.24011 0.0386 46	-0.13786 0.2826 46	-0.15113 0.2546 39	-0.14063 0.2292 46	-0.04614 0.7032 45	0.06727 0.7946 11	-0.33419 0.2117 11	-0.14977 0.4984 14	-0.26647 0.2980 11	1.00000 0.0000 46

STATION=21TXWQB 10060200

HOEFFDING DEPENDENCE COEFFICIENTS / PRG3 > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 46	0.11287 0.0000 46	0.01140 0.1140 46	0.00184 0.3080 39	0.09466 0.0001 46	0.02625 0.0317 45	0.02259 0.2140 11	-0.02557 0.6691 11	0.09416 0.0278 14	0.12311 0.0274 11	-0.01532 1.0000 46
AS	0.11287 0.0000 46	1.00000 0.0000 46	-0.01293 0.9989 46	-0.00718 0.6949 39	0.01505 0.0811 46	-0.00894 0.8707 45	0.02570 0.1994 11	-0.08174 1.0000 11	0.03525 0.1281 14	-0.05547 0.9959 11	0.00729 0.1700 46
CD	0.01140 0.1140 46	-0.01293 0.9989 46	1.00000 0.0000 46	-0.00087 0.3946 39	-0.00125 0.4172 46	0.00153 0.3099 45	-0.08431 1.0000 11	-0.09882 1.0000 11	0.05309 0.0790 14	-0.05114 0.9828 11	-0.02001 1.0000 46
CR	0.00184 0.3080 39	-0.00718 0.6949 39	-0.00087 0.3946 39	1.00000 0.0000 39	0.01176 0.1313 39	0.03999 0.0172 38	-0.05462 0.9943 11	0.01623 0.2478 11	0.00924 0.2735 14	0.04762 0.1233 11	-0.01953 1.0000 39
CU	0.09466 0.0001 46	0.01505 0.0811 46	-0.00125 0.4172 46	0.01176 0.1313 39	1.00000 0.0000 46	0.01427 0.0897 45	-0.06260 1.0000 11	0.00446 0.3272 11	0.04433 0.0998 14	-0.04789 0.9597 11	-0.01140 0.9836 46
PB	0.02625 0.0317 45	-0.00894 0.8707 45	0.00153 0.3099 45	0.03999 0.0172 38	0.01427 0.0897 45	1.00000 0.0000 45	-0.05357 0.9917 11	-0.02618 0.6781 11	0.07600 0.0437 14	0.10958 0.0355 11	-0.01997 1.0000 45
NI	0.02259 0.2140 11	0.02570 0.1994 11	-0.08431 1.0000 11	-0.05462 0.9943 11	-0.06260 1.0000 11	-0.05357 0.9917 11	1.00000 0.0000 11	-0.06020 0.9997 11	-0.03527 0.6141 11	-0.02543 0.6671 11	-0.12277 1.0000 11
AG	-0.02557 0.6691 11	-0.08174 1.0000 11	-0.09882 1.0000 11	0.01623 0.2478 11	0.00446 0.3272 11	-0.02618 0.6781 11	-0.06020 0.9997 11	1.00000 0.0000 11	-0.06084 0.9998 11	0.20509 0.0060 11	-0.04079 0.8888 11
ZN	0.09416 0.0278 14	0.03525 0.1281 14	0.05309 0.0790 14	0.00924 0.2735 14	0.04433 0.0998 14	0.07600 0.0437 14	-0.03527 0.8141 11	-0.06084 0.9998 11	1.00000 0.0000 14	-0.00406 0.4019 11	-0.05019 1.0000 14
SE	0.12311 0.0274 11	-0.05547 0.9959 11	-0.05114 0.9828 11	0.04762 0.1233 11	-0.04789 0.9597 11	0.10958 0.0355 11	-0.02543 0.6671 11	0.20509 0.0060 11	-0.00406 0.4019 11	1.00000 0.0000 11	-0.06006 0.9996 11
HG	-0.01532 1.0000 46	0.00729 0.1700 46	-0.02001 1.0000 46	-0.01953 1.0000 39	-0.01140 0.9836 46	-0.01997 1.0000 45	-0.12277 1.0000 11	-0.04079 0.8888 11	-0.05019 1.0000 14	-0.06006 0.9996 11	1.00000 0.0000 46

STATION=21TXWQE 10060100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	48	7914.16666667	1416.46904921	7666.00000000	6138.00000000	10553.00000000
AS	48	20.03416638	17.98618185	16.00000000	1.00000000	90.00000000
CU	48	11.29166667	4.98917267	10.00000000	2.00000000	30.00000000
CK	41	24.63414634	15.16534882	20.00000000	8.00000000	80.00000000
CU	48	82.79916667	114.72728381	30.00000000	0.35999995	550.00000000
PI	47	46.51063830	33.44357503	50.00000000	4.00000000	170.00000000
NI	11	14.18181818	5.54649767	12.00000000	6.00000000	25.00000000
AG	11	12.45454545	10.28944737	10.00000000	2.00000000	30.00000000
ZN	14	96.50000000	63.89263831	82.50000000	10.00000000	230.00000000
SE	11	19.70908841	20.06670790	10.00000000	2.00000000	59.89999390
HG	48	0.31916663	0.26905526	0.19999999	0.09999996	1.42999935

STATION=21TXWQB 10060100

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 48	-0.26997 0.0635 48	-0.35111 0.0144 48	0.04285 0.7902 41	-0.34182 0.0174 48	0.20679 0.1631 47	-0.00629 0.9854 11	0.49797 0.1190 11	-0.13641 0.6419 14	0.53399 0.0906 11	-0.07570 0.6091 48
AS	-0.26997 0.0635 48	1.00000 0.0000 48	0.14124 0.3383 48	0.08103 0.6145 41	-0.05064 0.7325 48	-0.11438 0.4440 47	-0.20762 0.5402 11	-0.18815 0.5796 11	0.43734 0.1179 14	0.11718 0.7315 11	-0.16752 0.2551 48
CD	-0.35111 0.0144 48	0.14124 0.3383 48	1.00000 0.0000 48	0.07120 0.6582 41	0.10142 0.4928 48	0.12765 0.3925 47	0.39187 0.2333 11	0.49535 0.1213 11	0.27069 0.3493 14	0.22054 0.5146 11	-0.18019 0.2204 48
CR	0.04285 0.7902 41	0.08103 0.6145 41	0.07120 0.6582 41	1.00000 0.0000 41	-0.20844 0.1909 41	0.11046 0.4974 40	0.21084 0.5337 11	0.72118 0.0123 11	-0.07648 0.7950 14	0.77269 0.0053 11	0.19198 0.2292 41
CU	-0.34182 0.0174 48	-0.05064 0.7325 48	0.10142 0.4928 48	-0.20844 0.1909 41	1.00000 0.0000 48	0.20605 0.1647 47	0.40748 0.2135 11	0.08027 0.8145 11	0.30800 0.2840 14	-0.22240 0.5110 11	-0.09857 0.5050 48
PB	0.20679 0.1631 47	-0.11438 0.4440 47	0.12765 0.3925 47	0.11046 0.4974 40	0.20605 0.1647 47	1.00000 0.0000 47	0.10318 0.7627 11	0.11208 0.7428 11	0.06642 0.8215 14	-0.04071 0.9054 11	-0.17122 0.2498 47
NI	-0.00629 0.9854 11	-0.20762 0.5402 11	0.39187 0.2333 11	0.21084 0.5337 11	0.40748 0.2135 11	0.10318 0.7627 11	1.00000 0.0000 11	0.25774 0.4442 11	0.21471 0.5261 11	0.08480 0.8042 11	-0.18145 0.5934 11
AG	0.49797 0.1190 11	-0.18815 0.5796 11	0.49535 0.1213 11	0.72118 0.0123 11	0.08027 0.8145 11	0.11208 0.7428 11	0.25774 0.4442 11	1.00000 0.0000 11	0.09381 0.7838 11	0.84821 0.0010 11	-0.49616 0.1206 11
ZN	-0.13641 0.6419 14	0.43734 0.1179 14	0.27069 0.3493 14	-0.07648 0.7950 14	0.30800 0.2840 14	0.06642 0.8215 14	0.21471 0.5261 11	0.09381 0.7838 11	1.00000 0.0000 14	0.28629 0.3934 11	-0.03694 0.9002 14
SE	0.53399 0.0906 11	0.11718 0.7315 11	0.22054 0.5146 11	0.77269 0.0053 11	-0.22240 0.5110 11	-0.04071 0.9054 11	0.08480 0.8042 11	0.84821 0.0010 11	0.28629 0.3934 11	1.00000 0.0000 11	-0.44031 0.1753 11
HG	-0.07570 0.6091 48	-0.16752 0.2551 48	-0.18019 0.2204 48	0.19198 0.2292 41	-0.09857 0.5050 48	-0.17122 0.2498 47	-0.18145 0.5934 11	-0.49616 0.1206 11	-0.03694 0.9002 14	-0.44031 0.1753 11	1.00000 0.0000 48

STATION=21TXWQE 10060100

SPEARMAN CORRELATION COEFFICIENTS / PRUB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 48	-0.35143 0.0143 48	-0.32906 0.0224 48	-0.15492 0.3335 41	-0.55035 0.0001 48	0.38117 0.0082 47	0.06236 0.8555 11	0.74887 0.0080 11	-0.30464 0.2896 14	0.71724 0.0130 11	-0.04760 0.7480 48
AS	-0.35143 0.0143 48	1.00000 0.0000 48	0.29970 0.0385 48	0.21905 0.1688 41	0.07520 0.6115 48	-0.04160 0.7813 47	-0.01647 0.9617 11	-0.45974 0.1548 11	0.08483 0.7731 14	-0.17100 0.6152 11	-0.30057 0.0379 48
CD	-0.32906 0.0224 48	0.29970 0.0385 48	1.00000 0.0000 48	0.38725 0.0124 41	0.23204 0.1125 48	0.24151 0.1020 47	0.35451 0.2847 11	0.61443 0.0443 11	0.29523 0.3055 14	0.07922 0.8169 11	-0.15522 0.2921 48
CR	-0.15492 0.3335 41	0.21905 0.1688 41	0.38725 0.0124 41	1.00000 0.0000 41	-0.05180 0.7477 41	0.11306 0.4873 40	0.21598 0.5236 11	0.64068 0.0337 11	-0.09553 0.7453 14	0.52813 0.0949 11	0.00993 0.9509 41
CU	-0.55035 0.0001 48	0.07520 0.6115 48	0.23204 0.1125 48	-0.05180 0.7477 41	1.00000 0.0000 48	-0.10866 0.4672 47	0.38480 0.2426 11	0.24132 0.4747 11	0.27122 0.3483 14	-0.18349 0.5892 11	0.05921 0.6893 48
PB	0.38117 0.0082 47	-0.04160 0.7813 47	0.24151 0.1020 47	0.11306 0.4873 40	-0.10866 0.4672 47	1.00000 0.0000 47	0.01929 0.9551 11	0.06314 0.8537 11	-0.06984 0.8125 14	-0.28327 0.3986 11	-0.13249 0.3747 47
NI	0.06236 0.8555 11	-0.01647 0.9617 11	0.35451 0.2847 11	0.21598 0.5236 11	0.38480 0.2426 11	0.01929 0.9551 11	1.00000 0.0000 11	0.17250 0.6120 11	0.00917 0.9786 11	-0.10599 0.7564 11	-0.12591 0.7122 11
AG	0.74887 0.0080 11	-0.45974 0.1548 11	0.61443 0.0443 11	0.64068 0.0337 11	0.24132 0.4747 11	0.06314 0.8537 11	0.17250 0.6120 11	1.00000 0.0000 11	0.02772 0.9355 11	0.67058 0.0239 11	-0.57203 0.0660 11
ZN	-0.30464 0.2896 14	0.08483 0.7731 14	0.29523 0.3055 14	-0.09553 0.7453 14	0.27122 0.3483 14	-0.06984 0.8125 14	0.00917 0.9786 11	0.02772 0.9355 11	1.00000 0.0000 14	0.07306 0.8310 11	-0.06420 0.8274 14
SE	0.71724 0.0130 11	-0.17100 0.6152 11	0.07922 0.8169 11	0.52813 0.0949 11	-0.18349 0.5892 11	-0.28327 0.3986 11	-0.10599 0.7564 11	0.67058 0.0239 11	0.07306 0.8310 11	1.00000 0.0000 11	-0.38472 0.2427 11
HG	-0.04760 0.7480 48	-0.30057 0.0379 48	-0.15522 0.2921 48	0.00993 0.9509 41	0.05921 0.6893 48	-0.13249 0.3747 47	-0.12591 0.7122 11	-0.57203 0.0660 11	-0.06420 0.8274 14	-0.38472 0.2427 11	1.00000 0.0000 48

STATION=21TXWQH 10060100

KENDALL TAU & CORRELATION COEFFICIENTS / PRCB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.00000 48	-0.25034 0.0152 48	-0.25547 0.0212 48	-0.12078 0.3089 41	-0.41002 0.0001 48	0.24515 0.0188 47	0.07767 0.7505 11	0.53489 0.0305 11	-0.30339 0.1370 14	0.51431 0.0329 11	-0.03386 0.7621 48
AS	-0.25034 0.0152 48	1.00000 0.00000 48	0.23258 0.0421 48	0.16416 0.1821 41	0.07364 0.4818 48	-0.02833 0.7925 47	0.00000 1.0000 11	-0.35053 0.1643 11	0.08520 0.6878 14	-0.13878 0.5722 11	-0.25454 0.0274 48
CD	-0.25547 0.0212 48	0.23258 0.0421 48	1.00000 0.00000 48	0.31892 0.0151 41	0.17913 0.1117 48	0.20170 0.0826 47	0.25332 0.3175 11	0.49534 0.0535 11	0.26774 0.2207 14	0.04142 0.8684 11	-0.12805 0.3028 48
CR	-0.12078 0.3089 41	0.16416 0.1821 41	0.31892 0.0151 41	1.00000 0.00000 41	-0.05157 0.6673 41	0.08608 0.4863 40	0.14298 0.5705 11	0.52095 0.0411 11	-0.05968 0.7784 14	0.44079 0.0762 11	0.00921 0.9443 41
CU	-0.41002 0.0001 48	0.07364 0.4818 48	0.17913 0.1117 48	-0.05157 0.6673 41	1.00000 0.00000 48	-0.07011 0.5085 47	0.28851 0.2344 11	0.17661 0.4720 11	0.26816 0.1869 14	-0.16981 0.4782 11	0.04994 0.6603 48
PB	0.24515 0.0188 47	-0.02833 0.7925 47	0.20170 0.0826 47	0.03603 0.4883 40	-0.07011 0.5085 47	1.00000 0.00000 47	0.00000 1.0000 11	0.02154 0.9331 11	0.01179 0.9551 14	-0.14496 0.5620 11	-0.09701 0.4081 47
NI	0.07767 0.7505 11	0.00000 1.0000 11	0.25332 0.3175 11	0.14298 0.5705 11	0.28851 0.2344 11	0.00000 1.0000 11	1.00000 0.0000 11	0.14003 0.5737 11	0.05664 0.8131 11	-0.09617 0.6919 11	-0.10985 0.6843 11
AG	0.53489 0.0305 11	-0.35053 0.1643 11	0.49534 0.0535 11	0.52095 0.0411 11	0.17661 0.4720 11	0.02154 0.9331 11	0.14003 0.5737 11	1.00000 0.0000 11	0.01926 0.9367 11	0.47095 0.0551 11	-0.50430 0.0653 11
ZN	-0.30339 0.1370 14	0.08520 0.6878 14	0.26774 0.2207 14	-0.05968 0.7784 14	0.26816 0.1869 14	0.01179 0.9551 14	0.05664 0.3131 11	0.01926 0.9367 11	1.00000 0.0000 14	0.05557 0.8142 11	-0.07172 0.7469 14
SE	0.51431 0.0329 11	-0.13878 0.5722 11	0.04142 0.8684 11	0.44079 0.0762 11	-0.16981 0.4782 11	-0.14496 0.5620 11	-0.09617 0.6919 11	0.47095 0.0551 11	0.05557 0.8142 11	1.00000 0.0000 11	-0.32326 0.2248 11
HG	-0.03386 0.7621 48	-0.25454 0.0274 48	-0.12805 0.3028 48	0.00921 0.9443 41	0.04994 0.6603 48	-0.09701 0.4081 47	-0.10985 0.6843 11	-0.50430 0.0653 11	-0.07172 0.7469 14	-0.32326 0.2248 11	1.00000 0.0000 48

STATION=21TXWJB 10060100

HOEFFDING DEPENDENCE COEFFICIENTS / PRGB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 48	0.04613 0.0049 48	0.02259 0.0379 48	-0.00504 0.5918 41	0.14290 0.0000 48	0.05463 0.0026 47	-0.07484 1.0000 11	0.32670 0.0007 11	0.09222 0.0291 14	0.19582 0.0071 11	-0.01388 1.0000 48
AS	0.04613 0.0049 48	1.00000 0.0000 48	0.00693 0.1709 48	-0.01182 0.9550 41	-0.00424 0.5883 48	-0.00535 0.6551 47	-0.07241 1.0000 11	0.02151 0.2194 11	-0.04144 0.9925 14	-0.09108 1.0000 11	0.01485 0.0777 48
CD	0.02259 0.0379 48	0.00693 0.1709 48	1.00000 0.0000 48	0.00897 0.1589 41	-0.00503 0.6408 48	-0.00160 0.4355 47	-0.07884 1.0000 11	0.05469 0.1062 11	-0.02739 0.8190 14	-0.02283 0.6292 11	-0.01906 1.0000 48
CR	-0.00504 0.5918 41	-0.01182 0.9550 41	0.00897 0.1589 41	1.00000 0.0000 41	-0.00759 0.7412 41	-0.01425 0.9960 40	-0.09504 1.0000 11	0.01079 0.2815 11	-0.04030 0.9879 14	0.02266 0.2137 11	-0.02377 1.0000 41
CU	0.14290 0.0000 48	-0.00424 0.5883 48	-0.00503 0.6408 48	-0.00759 0.7412 41	1.00000 0.0000 48	-0.00213 0.4620 47	-0.02290 0.6301 11	0.03429 0.1646 11	0.05907 0.0675 14	0.00974 0.2885 11	-0.01600 1.0000 48
PB	0.05463 0.0026 47	-0.00535 0.6551 47	-0.00160 0.4355 47	-0.01425 0.9960 40	-0.00213 0.4620 47	1.00000 0.0000 47	-0.06737 1.0000 11	-0.07691 1.0000 11	-0.02853 0.8400 14	-0.02902 0.7207 11	-0.01853 1.0000 47
NI	-0.07484 1.0000 11	-0.07241 1.0000 11	-0.07884 1.0000 11	-0.09504 1.0000 11	-0.02290 0.6301 11	-0.06737 1.0000 11	1.00000 0.0000 11	-0.06534 1.0000 11	-0.07495 1.0000 11	-0.01982 0.5869 11	-0.11489 1.0000 11
AG	0.32670 0.0007 11	0.02151 0.2194 11	0.05469 0.1062 11	0.01079 0.2815 11	0.03429 0.1646 11	-0.07691 1.0000 11	-0.06534 1.0000 11	1.00000 0.0000 11	-0.06439 1.0000 11	0.06395 0.0876 11	-0.06974 1.0000 11
ZN	0.09222 0.0291 14	-0.04144 0.9925 14	-0.02739 0.8190 14	-0.04030 0.9879 14	0.05907 0.0675 14	-0.02853 0.8400 14	-0.07495 1.0000 11	-0.06439 1.0000 11	1.00000 0.0000 14	-0.07603 1.0000 11	-0.05607 1.0000 14
SE	0.19582 0.0071 11	-0.09108 1.0000 11	-0.02283 0.6292 11	0.02266 0.2137 11	0.00974 0.2885 11	-0.02902 0.7207 11	-0.01982 0.5869 11	0.06395 0.0876 11	-0.07603 1.0000 11	1.00000 0.0000 11	-0.05317 0.9905 11
HG	-0.01388 1.0000 48	0.01485 0.0777 48	-0.01906 1.0000 48	-0.02377 1.0000 41	-0.01600 1.0000 48	-0.01853 1.0000 47	-0.11489 1.0000 11	-0.06974 1.0000 11	-0.05607 1.0000 14	-0.05317 0.9905 11	1.00000 0.0000 48

STATION=211XWQB 10050200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	45	7677.20000000	1358.33317977	7446.00000000	5092.00000000	10280.00000000
AS	45	20.49111063	22.32411852	14.00000000	1.00000000	140.00000000
CD	45	12.60888889	7.91667464	10.00000000	2.00000000	46.00000000
CR	38	24.89473684	12.43747665	20.00000000	6.00000000	50.00000000
CU	45	79.75555556	102.87285965	40.00000000	1.00000000	570.00000000
PH	44	45.95454545	40.76361496	50.00000000	4.00000000	200.00000000
NI	9	21.55555556	33.71613527	10.00000000	2.00000000	110.00000000
AG	9	13.22222222	12.16324153	10.00000000	2.00000000	30.00000000
ZN	12	107.25000000	79.10651622	90.00000000	2.00000000	250.00000000
SE	3	24.11249924	28.32068528	10.00000000	2.00000000	70.00000000
HG	45	0.63422219	1.80219624	0.19999999	0.02000000	12.00000000

STATION=21TXWQB 10050200

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 45	-0.30629 0.0407 45	-0.11667 0.4453 45	0.13704 0.4120 38	-0.42009 0.0041 45	-0.02848 0.8544 44	-0.96095 0.0001 9	-0.04941 0.8996 9	-0.08512 0.7925 12	0.66355 0.0728 8	-0.17206 0.2584 45
AS	-0.30629 0.0407 45	1.00000 0.0000 45	0.04177 0.7853 45	0.02906 0.8625 38	0.44245 0.0023 45	0.09700 0.5311 44	0.07898 0.8399 9	-0.16359 0.6741 9	0.58598 0.0453 12	-0.38853 0.3415 8	0.10462 0.4940 45
CD	-0.11667 0.4453 45	0.04177 0.7853 45	1.00000 0.0000 45	-0.22105 0.1823 38	0.27199 0.0707 45	0.35183 0.0192 44	-0.12099 0.7565 9	-0.10203 0.7939 9	-0.37848 0.2251 12	-0.15363 0.7164 8	0.10816 0.4794 45
CR	0.13704 0.4120 38	0.02906 0.8625 38	-0.22105 0.1823 38	1.00000 0.0000 38	-0.20683 0.2128 38	0.09364 0.5815 37	-0.14612 0.7076 9	0.19527 0.6146 9	0.84408 0.0006 12	0.16405 0.6979 8	-0.10609 0.5261 38
CU	-0.42009 0.0041 45	0.44245 0.0023 45	0.27199 0.0707 45	-0.20683 0.2128 38	1.00000 0.0000 45	0.49064 0.0007 44	0.91408 0.0006 9	0.39739 0.2896 9	0.15221 0.6368 12	0.37856 0.3551 8	0.06290 0.6814 45
PB	-0.02848 0.8544 44	0.09700 0.5311 44	0.35183 0.0192 44	0.09364 0.5815 37	0.49064 0.0007 44	1.00000 0.0000 44	0.81168 0.0079 9	0.68467 0.0419 9	0.26586 0.4036 12	0.62828 0.0953 8	-0.00160 0.9918 44
NI	-0.96095 0.0001 9	0.07898 0.8399 9	-0.12099 0.7565 9	-0.14612 0.7076 9	0.91408 0.0006 9	0.81168 0.0079 9	1.00000 0.0000 9	0.21729 0.5744 9	0.27588 0.4724 9	-0.04549 0.9148 8	0.97098 0.0001 9
AG	-0.04941 0.8996 9	-0.16359 0.6741 9	-0.10203 0.7939 9	0.19527 0.6146 9	0.39739 0.2896 9	0.68467 0.0419 9	0.21729 0.5744 9	1.00000 0.0000 9	0.30097 0.4313 9	0.90983 0.0017 8	0.13197 0.7350 9
ZN	-0.08512 0.7925 12	0.58598 0.0453 12	-0.37848 0.2251 12	0.84408 0.0006 12	0.15221 0.6368 12	0.26586 0.4036 12	0.27588 0.4724 9	0.30097 0.4313 9	1.00000 0.0000 12	0.21468 0.6097 8	0.10284 0.7505 12
SE	0.66355 0.0728 8	-0.38853 0.3415 8	-0.15363 0.7164 8	0.16405 0.6979 8	0.37856 0.3551 8	0.62828 0.0953 8	-0.04549 0.9148 8	0.90983 0.0017 8	0.21468 0.6097 8	1.00000 0.0000 8	-0.45240 0.2604 8
HG	-0.17206 0.2584 45	0.10462 0.4940 45	0.10816 0.4794 45	-0.10609 0.5261 38	0.06290 0.6814 45	-0.00160 0.9918 44	0.97098 0.0001 9	0.13197 0.7350 9	0.10284 0.7505 12	-0.45240 0.2604 8	1.00000 0.0000 45

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10:12 TUESDAY, FEBRUARY 18, 1992 18

STATION=21TXWQB 10050200

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 45	-0.42825 0.0033 45	-0.19748 0.1935 45	0.05238 0.7562 38	-0.53367 0.0002 45	0.24464 0.1095 44	-0.18106 0.6411 9	0.52023 0.1511 9	0.09474 0.7696 12	0.92778 0.0009 8	-0.06111 0.6901 45
AS	-0.42825 0.0033 45	1.00000 0.0000 45	0.14325 0.3479 45	0.15319 0.3585 38	0.24961 0.0962 45	0.01896 0.9028 44	0.30908 0.4183 9	-0.24585 0.5237 9	0.58246 0.0469 12	0.03593 0.9327 8	0.06298 0.6811 45
CD	-0.19748 0.1935 45	0.14325 0.3479 45	1.00000 0.0000 45	0.04759 0.7766 38	0.17131 0.2605 45	0.39198 0.0085 44	-0.03824 0.9222 9	0.43991 0.2361 9	-0.18490 0.5651 12	-0.09129 0.8298 8	0.04487 0.7698 45
CR	0.05238 0.7562 38	0.15319 0.3585 38	0.04759 0.7766 38	1.00000 0.0000 38	-0.17942 0.2811 38	0.26257 0.1164 37	0.65789 0.0541 9	0.43060 0.2473 9	0.83696 0.0007 12	0.41737 0.3036 8	0.05048 0.7634 38
CU	-0.53367 0.0002 45	0.24961 0.0982 45	0.17131 0.2605 45	-0.17942 0.2811 38	1.00000 0.0000 45	0.06485 0.6758 44	0.50226 0.1682 9	0.57511 0.1052 9	0.06702 0.8360 12	0.32336 0.4346 8	-0.03188 0.8353 45
PB	0.24464 0.1095 44	0.01896 0.9028 44	0.39198 0.0085 44	0.26257 0.1164 37	0.06485 0.6758 44	1.00000 0.0000 44	0.71767 0.0295 9	0.77982 0.0132 9	0.29454 0.3527 12	0.65128 0.0802 8	0.08667 0.5759 44
NI	-0.18106 0.6411 9	0.30908 0.4183 9	-0.03824 0.9222 9	0.65789 0.0541 9	0.50226 0.1682 9	0.71767 0.0295 9	1.00000 0.0000 9	0.36332 0.3365 9	0.51299 0.1579 9	0.22237 0.5966 8	0.21650 0.5758 9
AG	0.52023 0.1511 9	-0.24585 0.5237 9	0.43991 0.2361 9	0.43060 0.2473 9	0.57511 0.1052 9	0.77982 0.0132 9	0.36332 0.3365 9	1.00000 0.0000 9	0.37598 0.3186 9	0.74067 0.0356 8	-0.29361 0.4432 9
ZN	0.09474 0.7696 12	0.58246 0.0469 12	-0.18490 0.5651 12	0.83696 0.0007 12	0.06702 0.8360 12	0.29454 0.3527 12	0.51299 0.1579 9	0.37598 0.3186 9	1.00000 0.0000 12	0.64286 0.0856 8	-0.24309 0.4465 12
SE	0.92778 0.0009 8	0.03593 0.9327 8	-0.09129 0.8298 8	0.41737 0.3036 8	0.32336 0.4346 8	0.65128 0.0802 8	0.22237 0.5966 8	0.74067 0.0356 8	0.64286 0.0856 8	1.00000 0.0000 8	-0.31617 0.4455 8
HG	-0.06111 0.6901 45	0.06298 0.6811 45	0.04487 0.7698 45	0.05048 0.7634 38	-0.03188 0.8353 45	0.08667 0.5759 44	0.21650 0.5758 9	-0.29361 0.4432 9	-0.24309 0.4465 12	-0.31617 0.4455 8	1.00000 0.0000 45

STATION=21TXWQB 10050200

KENDALL TAU & CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 45	-0.32586 0.0022 45	-0.15052 0.1904 45	0.05868 0.6309 38	-0.36357 0.0005 45	0.15174 0.1631 44	-0.09241 0.7443 9	0.35031 0.2208 9	0.00000 1.0000 12	0.81537 0.0057 8	-0.05093 0.6542 45
AS	-0.32586 0.0022 45	1.00000 0.0000 45	0.11791 0.3195 45	0.11625 0.3533 38	0.18188 0.0911 45	0.03366 0.7641 44	0.24287 0.3669 9	-0.18833 0.5064 9	0.43082 0.0537 12	0.10911 0.7084 8	0.05031 0.6676 45
CD	-0.15052 0.1904 45	0.11791 0.3195 45	1.00000 0.0000 45	0.05868 0.7925 38	0.12004 0.3015 45	0.33507 0.0058 44	0.00000 1.0000 9	0.38720 0.2144 9	-0.14564 0.5592 12	-0.04336 0.8907 8	0.03444 0.7855 45
CR	0.05868 0.6309 38	0.11625 0.3533 38	0.05868 0.7925 38	1.00000 0.0000 38	-0.14313 0.2450 38	0.20103 0.1215 37	0.51613 0.0761 9	0.36687 0.2120 9	0.72113 0.0017 12	0.30861 0.3044 8	0.04225 0.7502 38
CU	-0.36357 0.0005 45	0.18188 0.0911 45	0.12004 0.3015 45	-0.14313 0.2450 38	1.00000 0.0000 45	0.04066 0.7116 44	0.48574 0.0835 9	0.43944 0.1210 9	0.09380 0.6774 12	0.25459 0.3828 8	-0.01885 0.8697 45
PB	0.15174 0.1631 44	0.03366 0.7641 44	0.33507 0.0058 44	0.20103 0.1215 37	0.04066 0.7116 44	1.00000 0.0000 44	0.63369 0.0311 9	0.62069 0.0366 9	0.19739 0.3954 12	0.61859 0.0444 8	0.07067 0.5561 44
NI	-0.09241 0.7443 9	0.24287 0.3669 9	0.00000 1.0000 9	0.51613 0.0761 9	0.48574 0.0835 9	0.63369 0.0311 9	1.00000 0.0000 9	0.26681 0.3640 9	0.44901 0.1064 9	0.19703 0.5174 8	0.17961 0.5509 9
AG	0.35031 0.2208 9	-0.18833 0.5064 9	0.38720 0.2144 9	0.36687 0.2120 9	0.43944 0.1210 9	0.62069 0.0366 9	0.26681 0.3640 9	1.00000 0.0000 9	0.27854 0.3213 9	0.61859 0.0444 8	-0.22283 0.4640 9
ZN	0.00000 1.0000 12	0.43082 0.0537 12	-0.14564 0.5592 12	0.72113 0.0017 12	0.09380 0.6774 12	0.19739 0.3954 12	0.44901 0.1064 9	0.27854 0.3213 9	1.00000 0.0000 12	0.50000 0.0833 8	-0.17408 0.4602 12
SE	0.81537 0.0057 8	0.10911 0.7084 8	-0.04336 0.8907 8	0.30861 0.3044 8	0.25459 0.3828 8	0.61859 0.0444 8	0.19703 0.5174 8	0.61859 0.0444 8	0.50000 0.0833 8	1.00000 0.0000 8	-0.22917 0.4689 8
HG	-0.05093 0.6542 45	0.05031 0.6676 45	0.03444 0.7855 45	0.04225 0.7502 38	-0.01885 0.8697 45	0.07067 0.5561 44	0.17961 0.5509 9	-0.22283 0.4640 9	-0.17408 0.4602 12	-0.22917 0.4689 8	1.00000 0.0000 45

STATION=21TXWQB 10050200

HOEFFDING DEPENDENCE COEFFICIENTS / PRCB > 0 UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 45	0.07247 0.0008 45	0.00766 0.1667 45	0.00683 0.2013 38	0.06897 0.0010 45	0.04210 0.0093 44	-0.05779 0.9464 9	0.03919 0.1757 9	0.06597 0.0735 12	0.54688 0.0003 8	-0.01462 1.0000 45
AS	0.07247 0.0008 45	1.00000 0.0000 45	-0.01543 1.0000 45	-0.01065 0.8712 38	0.00652 0.1864 45	-0.00506 0.6139 44	-0.03274 0.6783 9	-0.12723 1.0000 9	0.03125 0.1643 12	0.00000 0.3643 8	-0.01408 0.9999 45
CD	0.00766 0.1667 45	-0.01543 1.0000 45	1.00000 0.0000 45	-0.01979 1.0000 38	-0.01181 0.9863 45	0.02620 0.0335 44	-0.19097 1.0000 9	-0.17411 1.0000 9	-0.10764 1.0000 12	-0.11384 1.0000 8	-0.02136 1.0000 45
CR	0.00683 0.2013 38	-0.01065 0.8712 38	-0.01979 1.0000 38	1.00000 0.0000 38	0.01253 0.1266 38	0.00006 0.3623 37	0.00992 0.3011 9	-0.10193 1.0000 9	0.30682 0.0006 12	-0.07366 0.9847 8	-0.02235 1.0000 38
CU	0.06897 0.0010 45	0.00652 0.1864 45	-0.01181 0.9863 45	0.01253 0.1266 38	1.00000 0.0000 45	-0.00086 0.3986 44	0.05320 0.1374 9	-0.01426 0.4802 9	-0.03220 0.8161 12	-0.01339 0.4572 8	-0.01740 1.0000 45
PB	0.04210 0.0093 44	-0.00506 0.6139 44	0.02620 0.0335 44	0.00006 0.3623 37	-0.00086 0.3986 44	1.00000 0.0000 44	0.01761 0.2605 9	0.02827 0.2139 9	-0.03235 0.8186 12	0.19196 0.0222 8	-0.01864 1.0000 44
NI	-0.05779 0.9464 9	-0.03274 0.6783 9	-0.19097 1.0000 9	0.00992 0.3011 9	0.05320 0.1374 9	0.01761 0.2605 9	1.00000 0.0000 9	-0.12016 1.0000 9	0.03968 0.1741 9	-0.10045 1.0000 8	-0.14509 1.0000 9
AG	0.03919 0.1757 9	-0.12723 1.0000 9	-0.17411 1.0000 9	-0.10193 1.0000 9	-0.01426 0.4802 9	0.02827 0.2139 9	-0.12016 1.0000 9	1.00000 0.0000 9	-0.03472 0.7020 9	0.09152 0.0874 8	-0.13976 1.0000 9
ZN	0.06597 0.0735 12	0.03125 0.1643 12	-0.10764 1.0000 12	0.30682 0.0006 12	-0.03220 0.8161 12	-0.03235 0.8186 12	0.03968 0.1741 9	-0.03472 0.7020 9	1.00000 0.0000 12	0.16071 0.0336 8	-0.03030 0.7856 12
SE	0.54688 0.0003 8	0.00000 0.3643 8	-0.11384 1.0000 8	-0.07366 0.9847 8	-0.01339 0.4572 8	0.19196 0.0222 8	-0.10045 1.0000 8	0.09152 0.0874 8	0.16071 0.0336 8	1.00000 0.0000 8	-0.14286 1.0000 8
HG	-0.01462 1.0000 45	-0.01408 0.9999 45	-0.02136 1.0000 45	-0.02235 1.0000 38	-0.01740 1.0000 45	-0.01864 1.0000 44	-0.14509 1.0000 9	-0.13976 1.0000 9	-0.03030 0.7856 12	-0.14286 1.0000 8	1.00000 0.0000 45

STATION=21TXWQ9 10050100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	46	7371.34782609	1444.28904798	7575.00000000	6138.00000000	10728.00000000
AS	46	18.12978230	13.24052980	14.50000000	1.00000000	55.59999084
CD	46	14.63043478	9.46891685	10.00000000	1.00000000	43.00000000
CR	46	26.97500000	12.86316048	20.00000000	8.00000000	54.00000000
CU	46	91.73913043	149.20447339	40.00000000	1.00000000	950.00000000
PA	45	57.98222215	45.34599956	50.00000000	5.00000000	220.00000000
NI	10	21.70000000	13.41682195	20.00000000	2.00000000	50.00000000
AG	23	12.39130435	7.48780292	10.00000000	2.00000000	30.00000000
LN	27	86.66666667	80.72126781	58.00000000	10.00000000	360.00000000
SE	10	30.94999847	34.40843492	17.50000000	3.00000000	103.19999695
HG	45	0.32577776	0.49525238	0.19999999	0.09999996	3.48999977

STATION=21TXWB 10050100

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	AS	CD	CR	CU	PB	NI	AG	ZN	SE	HG
DATE	1.00000 0.0000 46	-0.01082 0.1205 46	0.01420 0.0877 46	0.00592 0.2116 40	0.10991 0.0000 46	0.05173 0.0040 45	-0.03857 0.8059 10	-0.01207 0.6837 23	0.00031 0.3572 27	0.07006 0.0892 10	-0.00566 0.6594 45
AS	0.01082 0.1205 46	1.00000 0.0000 46	-0.00434 0.5828 46	-0.00134 0.4134 40	0.00946 0.1373 46	-0.00904 0.8763 45	0.04055 0.1568 10	-0.02791 0.9999 23	-0.01783 0.9475 27	-0.07025 1.0000 10	-0.02149 1.0000 45
CD	0.01420 0.0877 46	-0.00434 0.5828 46	1.00000 0.0000 46	-0.01359 0.9900 40	0.00265 0.2739 46	0.00594 0.1975 45	-0.05388 0.9639 10	-0.04539 1.0000 23	-0.02435 1.0000 27	-0.06510 0.9991 10	-0.02148 1.0000 45
CR	0.00592 0.2116 40	-0.00134 0.4134 40	-0.01359 0.9900 40	1.00000 0.0000 40	0.00013 0.3597 40	0.00019 0.3579 39	-0.13238 1.0000 10	-0.01445 0.7624 23	0.01996 0.1125 27	-0.07527 1.0000 10	-0.02004 1.0000 39
CU	0.10991 0.0000 46	0.00946 0.1373 46	0.00265 0.2739 46	0.00013 0.3597 40	1.00000 0.0000 46	0.01037 0.1286 45	-0.06566 0.9993 10	-0.01261 0.7014 23	-0.01031 0.6873 27	-0.10032 1.0000 10	-0.01352 0.9995 45
PB	0.05173 0.0040 45	-0.00904 0.8763 45	0.00594 0.1975 45	0.00019 0.3579 39	0.01037 0.1286 45	1.00000 0.0000 45	-0.08898 1.0000 10	-0.01690 0.8172 22	-0.01203 0.7367 26	-0.04452 0.8798 10	-0.00889 0.8554 44
NI	-0.03857 0.8059 10	0.04055 0.1568 10	-0.05388 0.9639 10	-0.13238 1.0000 10	-0.06566 0.9993 10	-0.08898 1.0000 10	1.00000 0.0000 10	-0.03559 0.7661 10	-0.12401 1.0000 10	-0.04706 0.9974 10	-0.16915 1.0000 9
AG	-0.01207 0.6837 23	-0.02791 0.9999 23	-0.04539 1.0000 23	-0.01445 0.7624 23	-0.01261 0.7014 23	-0.01690 0.8172 22	-0.03559 0.7661 10	1.00000 0.0000 23	0.01466 0.1722 23	0.35820 0.0008 10	-0.03618 1.0000 22
ZN	0.00031 0.3572 27	-0.01783 0.9475 27	-0.02435 1.0000 27	0.01996 0.1125 27	-0.01031 0.6873 27	-0.01203 0.7367 26	-0.12401 1.0000 10	0.01466 0.1722 23	1.00000 0.0000 27	-0.01538 0.5092 10	-0.02315 0.9986 26
SE	0.07006 0.0892 10	-0.07025 1.0000 10	-0.06510 0.9991 10	-0.07527 1.0000 10	-0.10032 1.0000 10	-0.04452 0.8798 10	-0.04706 0.9074 10	0.35820 0.0008 10	-0.01538 0.5092 10	1.00000 0.0000 10	-0.12946 1.0000 9
HG	-0.00566 0.6594 45	-0.02149 1.0000 45	-0.02148 1.0000 45	-0.02004 1.0000 39	-0.01352 0.9995 45	-0.00889 0.8554 44	-0.16915 1.0000 9	-0.03618 1.0000 22	-0.02315 0.9986 26	-0.12946 1.0000 9	1.00000 0.0000 45

STATION=21TXWQB 10070800

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	20	7672.45000000	1829.99538323	7428.50000000	5248.00000000	11182.00000000
BOT_AS	13	6.96153817	4.49733266	6.39999962	1.39999962	16.00000000
BOT_AS	13	6.96153817	4.49733266	6.39999962	1.39999962	16.00000000
BOT_CD	18	5.23444444	2.87949176	4.54999971	1.19999981	11.00000000
BOT_CU	18	54.29444207	36.54648076	49.50000000	27.89999390	193.19999695
BOT_PB	18	177.76110395	86.98470463	194.09999847	1.00000000	350.00000000
BOT_ZN	18	540.92220052	336.97078311	500.84997559	224.00000000	1656.00000000
BOT_PCB	11	1039.50999997	2079.43497287	20.00000000	4.11999989	6430.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.00000 20	-0.78112 0.0016 13	-0.78112 0.0016 13	-0.65003 0.0035 18	-0.38269 0.1170 18	-0.64014 0.0042 18	-0.65117 0.0034 18	-0.18703 0.5819 11
BOT_AS	-0.78112 0.0016 13	1.00000 0.00000 13	1.00000 0.00000 13	0.84887 0.0002 13	0.51074 0.0745 13	0.28984 0.3368 13	0.77847 0.0017 13	-0.34563 0.4017 8
BOT_AS	-0.78112 0.0016 13	1.00000 0.00000 13	1.00000 0.00000 13	0.84887 0.0002 13	0.51074 0.0745 13	0.28984 0.3368 13	0.77847 0.0017 13	-0.34563 0.4017 8
BOT_CD	-0.65003 0.0035 18	0.84887 0.0002 13	0.84887 0.0002 13	1.00000 0.00000 18	0.50355 0.0331 18	0.50275 0.0335 18	0.73862 0.0005 18	-0.14195 0.7156 9
BOT_CU	-0.38269 0.1170 18	0.51074 0.0745 13	0.51074 0.0745 13	0.50355 0.0331 18	1.00000 0.00000 18	0.43543 0.0709 18	0.81325 0.0001 18	0.01610 0.9672 9
BOT_PB	-0.64014 0.0042 18	0.28984 0.3368 13	0.28984 0.3368 13	0.50275 0.0335 18	0.43543 0.0709 18	1.00000 0.00000 18	0.46570 0.0514 18	0.07511 0.8477 9
BOT_ZN	-0.65117 0.0034 18	0.77847 0.0017 13	0.77847 0.0017 13	0.73862 0.0005 18	0.81325 0.0001 18	0.46570 0.0514 18	1.00000 0.00000 18	-0.12176 0.7550 9
BOT_PCB	-0.18703 0.5819 11	-0.34563 0.4017 8	-0.34563 0.4017 8	-0.14195 0.7156 9	0.01610 0.9672 9	0.07511 0.8477 9	-0.12176 0.7550 9	1.00000 0.00000 11

STATION=21TXWQB 10071800

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	ROT_AS	ROT_AS	ROT_CD	ROT_CU	ROT_PB	ROT_ZN	ROT_PCB
DATE	1.00000	-0.80769	-0.80769	-0.63599	-0.39050	-0.71930	-0.69453	-0.26607
	0.0000	0.0008	0.0008	0.0046	0.1091	0.0008	0.0014	0.4291
	20	13	13	18	18	18	18	11
ROT_AS	-0.80769	1.00000	1.00000	0.72929	0.06602	0.30220	0.68681	-0.10779
	0.0008	0.0000	0.0000	0.0047	0.8303	0.3156	0.0095	0.7995
	13	13	13	13	13	13	13	8
ROT_AS	-0.80769	1.00000	1.00000	0.72929	0.06602	0.30220	0.68681	-0.10779
	0.0008	0.0000	0.0000	0.0047	0.8303	0.3156	0.0095	0.7995
	13	13	13	13	13	13	13	8
ROT_CD	-0.63599	0.72929	0.72929	1.00000	0.33644	0.55740	0.74767	-0.06897
	0.0046	0.0047	0.0047	0.0000	0.1722	0.0162	0.0004	0.8601
	18	13	13	18	18	18	18	9
ROT_CU	-0.39050	0.06602	0.06602	0.33644	1.00000	0.58678	0.39360	0.61026
	0.1091	0.8303	0.8303	0.1722	0.0000	0.0105	0.1061	0.0809
	18	13	13	18	18	18	18	9
ROT_PB	-0.71930	0.30220	0.30220	0.55740	0.58678	1.00000	0.64706	0.13561
	0.0008	0.3156	0.3156	0.0162	0.0105	0.0000	0.0037	0.7279
	18	13	13	18	18	18	18	9
ROT_ZN	-0.69453	0.68681	0.68681	0.74767	0.39360	0.64706	1.00000	0.23732
	0.0014	0.0095	0.0095	0.0004	0.1061	0.0037	0.0000	0.5387
	18	13	13	18	18	18	18	9
ROT_PCB	-0.26607	-0.10779	-0.10779	-0.06897	0.61026	0.13561	0.23732	1.00000
	0.4291	0.7995	0.7995	0.8601	0.0809	0.7279	0.5387	0.0000
	11	8	8	9	9	9	9	11

STATION=21TXWQB 10070800

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.0000	-0.61538	-0.61538	-0.51488	-0.29606	-0.50327	-0.47712	-0.29918
	0.0000	0.0034	0.0034	0.0031	0.0878	0.0035	0.0057	0.2078
	20	13	13	18	18	18	18	11
BOT_AS	-0.61538	1.0000	1.0000	0.56220	0.03871	0.17949	0.51282	-0.10911
	0.0034	0.0000	0.0000	0.0083	0.8545	0.3930	0.0147	0.7084
	13	13	13	13	13	13	13	8
BOT_CD	-0.51488	0.56220	0.56220	1.0000	0.21263	0.39606	0.55448	0.00000
	0.0031	0.0083	0.0083	0.0000	0.2236	0.0227	0.0014	1.0000
	18	13	13	18	18	18	18	9
BOT_CU	-0.29606	0.03871	0.03871	0.21263	1.0000	0.42764	0.32238	0.55125
	0.0878	0.8545	0.8545	0.2236	0.0000	0.0137	0.0631	0.0432
	18	13	13	18	18	18	18	9
BOT_PB	-0.50327	0.17949	0.17949	0.39606	0.42764	1.0000	0.55556	0.02901
	0.0035	0.3930	0.3930	0.0227	0.0137	0.0000	0.0013	0.9153
	18	13	13	18	18	18	18	9
BOT_ZN	-0.47712	0.51282	0.51282	0.55448	0.32238	0.55556	1.0000	0.14508
	0.0057	0.0147	0.0147	0.0014	0.0631	0.0013	0.0000	0.5947
	18	13	13	18	18	18	18	9
BOT_PCB	-0.29918	-0.10911	-0.10911	0.00000	0.55125	0.02901	0.14508	1.00000
	0.2078	0.7084	0.7084	1.0000	0.0432	0.9153	0.5947	0.0000
	11	8	8	9	9	9	9	11

STATION=21TXWQ3 10070800

HOFFEDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 20	0.18221 0.0047 13	0.18221 0.0047 13	0.20215 0.0005 18	0.02810 0.1229 18	0.19141 0.0007 18	0.20191 0.0005 18	0.09199 0.0499 11
BOT_AS	0.18221 0.0047 13	1.00000 0.0000 13	1.00000 0.0000 13	0.19746 0.0034 13	-0.06867 1.0000 13	0.00466 0.3184 13	0.14996 0.0095 13	0.05357 0.1534 8
BOT_AS	0.18221 0.0047 13	1.00000 0.0000 13	1.00000 0.0000 13	0.19746 0.0034 13	-0.06867 1.0000 13	0.00466 0.3184 13	0.14996 0.0095 13	0.05357 0.1534 8
BOT_CD	0.20215 0.0005 18	0.19746 0.0034 13	0.19746 0.0034 13	1.00000 0.0000 18	-0.00642 0.4745 18	0.08380 0.0190 18	0.20308 0.0005 18	-0.03571 0.7139 9
BOT_CU	0.02810 0.1229 18	-0.06867 1.0000 13	-0.06867 1.0000 13	-0.00642 0.4745 18	1.00000 0.0000 18	0.07904 0.0222 18	0.05036 0.0566 18	0.14187 0.0329 9
BOT_PB	0.19141 0.0007 18	0.00466 0.3184 13	0.00466 0.3184 13	0.08380 0.0190 18	0.07904 0.0222 18	1.00000 0.0000 18	0.28420 0.0000 18	-0.08036 1.0000 9
BOT_ZN	0.20191 0.0005 18	0.14996 0.0095 13	0.14996 0.0095 13	0.20308 0.0005 18	0.05036 0.0566 18	0.28420 0.0000 18	1.00000 0.0000 18	-0.06845 0.9946 9
BOT_PCB	0.09199 0.0499 11	0.05357 0.1534 8	0.05357 0.1534 8	-0.03571 0.7139 9	0.14187 0.0329 9	-0.08036 1.0000 9	-0.06845 0.9946 9	1.00000 0.0000 11

STATION=21TXWQB 10060200

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	10	7757.10000000	1125.23358705	7529.00000000	6467.00000000	10133.00000000
BOT_AS	8	6.91249967	2.78846478	6.84999943	3.09999943	11.89999962
BOT_AS	8	6.91249967	2.78846478	6.84999943	3.09999943	11.89999962
BOT_CD	8	1.93374979	1.21318202	1.69999981	1.00000000	4.76999950
BOT_CU	8	34.38749886	12.46588754	33.19999695	19.69999695	60.00000000
BOT_PB	8	57.01249733	39.89967260	70.50000000	0.19999999	97.79998779
BOT_ZN	8	182.87500000	52.90540750	168.00000000	113.00000000	270.00000000
BOT_PCB	5	413.23999023	428.72168475	406.00000000	1.00000000	1020.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.45384	-0.45384	-0.03875	-0.51442	-0.37010	0.52747	0.25446
	0.0000	0.2587	0.2587	0.9274	0.1921	0.3668	0.1791	0.6795
	10	8	8	8	8	8	8	5
BOT_AS	-0.45384	1.00000	1.00000	0.71480	0.09906	0.12509	-0.42568	0.87469
	0.2587	0.0000	0.0000	0.0463	0.8155	0.7679	0.2930	0.3221
	8	8	8	8	8	8	8	3
BOT_AS	-0.45384	1.00000	1.00000	0.71480	0.09906	0.12509	-0.42568	0.87469
	0.2587	0.0000	0.0000	0.0463	0.8155	0.7679	0.2930	0.3221
	8	8	8	8	8	8	8	3
BOT_CD	-0.03875	0.71480	0.71480	1.00000	0.18302	0.21912	-0.13957	0.98842
	0.9274	0.0463	0.0463	0.0000	0.6644	0.6021	0.7417	0.1050
	8	8	8	8	3	8	8	3
BOT_CU	-0.51442	0.09906	0.09906	0.18302	1.00000	-0.00168	0.72720	0.56982
	0.1921	0.8155	0.8155	0.6644	0.0000	0.9968	0.0409	0.6140
	8	8	8	8	3	8	8	3
BOT_PB	-0.37010	0.12509	0.12509	0.21912	-0.00168	1.00000	0.28895	-0.92992
	0.3668	0.7679	0.7679	0.6021	0.9968	0.0000	0.4876	0.2397
	8	8	8	8	8	8	8	3
BOT_ZN	0.52747	-0.42568	-0.42568	-0.13957	0.72720	0.28895	1.00000	-0.95940
	0.1791	0.2930	0.2930	0.7417	0.0409	0.4876	0.0000	0.1820
	8	8	8	8	8	8	8	3
BOT_PCB	0.25446	0.87469	0.87469	0.98842	0.56982	-0.92992	-0.95940	1.00000
	0.6795	0.3221	0.3221	0.1050	0.6140	0.2397	0.1820	0.0000
	5	3	3	3	3	3	3	3

STATION=21TXWQE 10060200

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.57143	-0.57143	0.24098	0.54762	-0.33333	0.73810	0.30000
	0.0000	0.1390	0.1390	0.5653	0.1600	0.4198	0.0366	0.6238
	10	8	8	8	8	8	8	5
BOT_AS	-0.57143	1.00000	1.00000	0.36147	0.09524	0.09524	-0.47619	0.50000
	0.1390	0.0000	0.0000	0.3790	0.8225	0.8225	0.2329	0.6667
	8	8	8	8	8	8	8	3
BOT_AS	-0.57143	1.00000	1.00000	0.36147	0.09524	0.09524	-0.47619	0.50000
	0.1390	0.0000	0.0000	0.3790	0.8225	0.8225	0.2329	0.6667
	3	8	8	8	8	8	8	3
BOT_CD	0.24098	0.36147	0.36147	1.00000	0.51811	-0.07229	0.86025	1.00000
	0.5653	0.3790	0.3790	0.0000	0.1884	0.8649	0.8873	0.0000
	8	8	8	8	8	8	8	3
BOT_CD	0.54762	0.09524	0.09524	0.51811	1.00000	-0.21429	0.71429	0.50000
	0.1600	0.8225	0.8225	0.1884	0.0000	0.6103	0.0465	0.6667
	8	8	8	8	8	8	8	3
BOT_PB	-0.33333	0.09524	0.09524	-0.07229	-0.21429	1.00000	-0.04762	-1.00000
	0.4198	0.8225	0.8225	0.8649	0.6103	0.0000	0.9108	0.0000
	8	8	8	8	8	8	8	3
BOT_ZN	0.73810	-0.47619	-0.47619	0.86025	0.71429	-0.04762	1.00000	-1.00000
	0.0366	0.2329	0.2329	0.8873	0.0465	0.9108	0.0000	0.0000
	8	8	8	8	8	8	8	3
BOT_PCB	0.30000	0.50000	0.50000	1.00000	0.50000	-1.00000	-1.00000	1.00000
	0.6238	0.6667	0.6667	0.0000	0.6667	0.0000	0.0000	0.0000
	5	3	3	3	3	3	3	5

STATION=21TXWQP 10060200

KENDALL TAU B CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.42857	-0.42857	0.14825	0.50000	-0.21429	0.64286	0.20000
	0.0000	0.1376	0.1376	0.6152	0.0833	0.4579	0.0260	0.6242
	19	8	8	8	8	8	8	5
BOT_AS	-0.42857	1.00000	1.00000	0.29650	0.07143	0.07143	-0.35714	0.33333
	0.1376	0.0000	0.0000	0.3148	0.8046	0.8046	0.2160	0.6015
	8	8	8	8	8	8	8	3
BOT_AS	-0.42857	1.00000	1.00000	0.29650	0.07143	0.07143	-0.35714	0.33333
	0.1376	0.0000	0.0000	0.3148	0.8046	0.8046	0.2160	0.6015
	8	8	8	8	8	8	8	3
BOT_CD	0.14825	0.29650	0.29650	1.00000	0.29650	-0.07412	0.00000	1.00000
	0.6152	0.3148	0.3148	0.0000	0.3148	0.8016	1.0000	0.1172
	8	8	8	8	8	8	8	3
BOT_CU	0.50000	0.07143	0.07143	0.29650	1.00000	-0.14286	0.57143	0.33333
	0.0833	0.8046	0.8046	0.3148	0.0000	0.6207	0.0478	0.6015
	8	8	8	8	8	8	8	3
BOT_PB	-0.21429	0.07143	0.07143	-0.07412	-0.14286	1.00000	0.00000	-1.00000
	0.4579	0.8046	0.8046	0.8016	0.6207	0.0000	1.0000	0.1172
	8	8	8	8	8	8	8	3
BOT_ZN	0.64286	-0.35714	-0.35714	0.00000	0.57143	0.00000	1.00000	-1.00000
	0.0260	0.2160	0.2160	1.0000	0.0478	1.0000	0.0000	0.1172
	8	8	8	8	8	8	8	3
BOT_PCB	0.20000	0.33333	0.33333	1.00000	0.33333	-1.00000	-1.00000	1.00000
	0.6242	0.6015	0.6015	0.1172	0.6015	0.1172	0.1172	0.0000
	5	3	3	3	3	3	3	5

STATION=21TXWQR 10060200

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_CS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 10	0.21429 0.0165 8	0.21429 0.0165 8	-0.08929 0.9999 8	0.12500 0.0545 8	-0.03571 0.6607 8	0.44643 0.0009 8	-0.50000 . 5
BOT_AS	0.21429 0.0165 8	1.00000 0.0000 8	1.00000 0.0000 8	-0.12723 1.0000 8	0.01786 0.2704 8	-0.10714 1.0000 8	0.01786 0.2704 8	. . 3
BOT_CS	0.21429 0.0165 8	1.00000 0.0000 8	1.00000 0.0000 8	-0.12723 1.0000 8	0.01786 0.2704 8	-0.10714 1.0000 8	0.01786 0.2704 8	. . 3
BOT_CD	-0.08929 0.9999 8	-0.12723 1.0000 8	-0.12723 1.0000 8	1.00000 0.0000 8	0.00446 0.3379 8	-0.14509 1.0000 8	-0.06696 0.9518 8	. . 3
BOT_CU	0.12500 0.0545 8	0.01786 0.2704 8	0.01786 0.2704 8	0.00446 0.3379 8	1.00000 0.0000 8	-0.03571 0.6607 8	0.16071 0.0336 8	. . 3
BOT_PB	-0.03571 0.6607 8	-0.10714 1.0000 8	-0.10714 1.0000 8	-0.14509 1.0000 8	-0.03571 0.6607 8	1.00000 0.0000 8	0.05357 0.1534 8	. . 3
BOT_ZN	0.44643 0.0009 8	0.01786 0.2704 8	0.01786 0.2704 8	-0.06696 0.9518 8	0.16071 0.0336 8	0.05357 0.1534 8	1.00000 0.0000 8	. . 3
BOT_PCB	-0.50000 . 5	. . 3	. . 3	. . 3	. . 3	. . 3	. . 3	1.00000 . 5

STATION=21TXWQB 10060100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	17	7856.11764706	1286.31444845	7529.00000000	6467.00000000	11182.00000000
BOT_AS	8	5.53749883	5.09199123	4.64999962	2.29999924	17.89999390
BOT_AS	8	6.53749883	5.09199123	4.64999962	2.29999924	17.89999390
BOT_CD	8	2.43749997	2.16489985	1.34999990	0.79999995	7.00000000
BOT_CU	8	17.39999914	8.98268180	16.94993695	7.00000000	33.00000000
BOT_PB	8	56.76249695	35.27973627	51.39999390	17.00000000	115.00000000
BOT_ZN	8	89.18749809	58.83450012	81.44999695	17.00000000	190.00000000
BOT_PCB	13	90.78384612	163.76411613	20.00000000	1.18999958	580.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.000000	-0.41037	-0.41037	-0.14573	0.51281	0.82264	0.03439	-0.14746
	0.0000	0.3126	0.3126	0.7306	0.1937	0.0122	0.9356	0.6307
	17	8	8	8	8	8	8	13
BOT_AS	-0.41037	1.00000	1.00000	0.99919	-0.03917	-0.19158	-0.04609	0.50993
	0.3126	0.0000	0.0000	0.0017	0.9266	0.6495	0.9137	0.4901
	8	8	8	8	8	8	8	4
BOT_AS	-0.41037	1.00000	1.00000	0.99919	-0.03917	-0.19158	-0.04609	0.50993
	0.3126	0.0000	0.0000	0.0017	0.9266	0.6495	0.9137	0.4901
	8	8	8	8	8	8	8	4
BOT_CD	-0.14573	0.99919	0.99919	1.00000	0.04372	-0.01944	0.09119	-0.80204
	0.7306	0.0017	0.0017	0.0000	0.9181	0.9636	0.8300	0.1980
	8	8	8	8	8	8	8	4
BOT_CU	0.51281	-0.03917	-0.03917	0.04372	1.00000	0.50653	0.68054	0.45077
	0.1937	0.9266	0.9266	0.9181	0.0000	0.2002	0.0632	0.5492
	8	8	8	8	8	8	8	4
BOT_PB	0.82264	-0.19158	-0.19158	-0.01944	0.50653	1.00000	0.08478	-0.44142
	0.0122	0.6495	0.6495	0.9636	0.2002	0.0000	0.8418	0.5586
	8	8	8	8	8	8	8	4
BOT_ZN	0.03439	-0.04609	-0.04609	0.09119	0.68054	0.08478	1.00000	0.29744
	0.9356	0.9137	0.9137	0.8300	0.0632	0.8418	0.0000	0.7026
	8	8	8	8	8	8	8	4
BOT_PCB	-0.14746	0.50993	0.50993	-0.80204	0.45077	-0.44142	0.29744	1.00000
	0.6307	0.4901	0.4901	0.1980	0.5492	0.5586	0.7026	0.0000
	13	4	4	4	4	4	4	13

STATION=21TXWQ3 10060100

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.71429	-0.71429	-0.14372	0.54762	0.47619	-0.09524	-0.25685
	0.0000	0.0465	0.0465	0.7342	0.1600	0.2329	0.8225	0.3969
	17	8	8	8	8	8	8	13
BOT_AS	-0.71429	1.00000	1.00000	0.57486	-0.11905	-0.23810	0.14286	0.63246
	0.0465	0.0000	0.0000	0.1361	0.7789	0.5702	0.7358	0.3675
	8	8	8	8	8	8	8	4
BOT_AS	-0.71429	1.00000	1.00000	0.57486	-0.11905	-0.23810	0.14286	0.63246
	0.0465	0.0000	0.0000	0.1361	0.7789	0.5702	0.7358	0.3675
	8	8	8	8	8	8	8	4
BOT_CD	-0.14372	0.57486	0.57486	1.00000	0.85988	0.23953	0.13174	-0.94868
	0.7342	0.1361	0.1361	0.0000	0.8880	0.5678	0.7558	0.0513
	8	8	8	8	8	8	8	4
BOT_CU	0.54762	-0.11905	-0.11905	0.85988	1.00000	0.59524	0.61905	0.31623
	0.1600	0.7789	0.7789	0.8880	0.0000	0.1195	0.1017	0.6838
	8	8	8	8	8	8	8	4
BOT_PB	0.47619	-0.23810	-0.23810	0.23953	0.59524	1.00000	0.14286	-0.31623
	0.2329	0.5702	0.5702	0.5678	0.1195	0.0000	0.7358	0.6838
	8	8	8	8	8	8	8	4
BOT_ZN	-0.09524	0.14286	0.14286	0.13174	0.61905	0.14286	1.00000	0.31623
	0.8225	0.7358	0.7358	0.7558	0.1017	0.7358	0.0000	0.6838
	8	8	8	8	8	8	8	4
BOT_PCB	-0.25685	0.63246	0.63246	-0.94868	0.31623	-0.31623	0.31623	1.00000
	0.3969	0.3675	0.3675	0.0513	0.6838	0.6838	0.6838	0.0000
	13	4	4	4	4	4	4	13

STATION=21TXWQ3 10060100

KENDALL TAU B CORRELATION COEFFICIENTS / PRGR > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 17	-0.50000 0.0833 8	-0.50000 0.0833 8	-0.10911 0.7084 8	0.35714 0.2160 8	0.35714 0.2160 8	-0.07143 0.8046 8	-0.19497 0.3854 13
BOT_AS	-0.50000 0.0833 8	1.00000 0.0000 4	1.00000 0.0000 8	0.47281 0.1051 8	0.00000 1.0000 8	-0.14286 0.6207 8	0.14286 0.6207 8	0.54772 0.2786 4
BOT_AS	-0.50000 0.0833 8	1.00000 0.0000 8	1.00000 0.0000 8	0.47281 0.1051 8	0.00000 1.0000 8	-0.14286 0.6207 8	0.14286 0.6207 8	0.54772 0.2786 4
BOT_CD	-0.10911 0.7084 8	0.47281 0.1051 3	0.47281 0.1051 8	1.00000 0.0000 8	0.10911 0.7084 8	0.10911 0.7084 8	0.10911 0.7084 8	-0.91287 0.0710 4
BOT_CU	0.35714 0.2160 8	0.00000 1.0000 8	0.00000 1.0000 8	0.10911 0.7084 8	1.00000 0.0000 8	0.42857 0.1376 8	0.57143 0.0478 8	0.18257 0.7180 4
BOT_PB	0.35714 0.2160 8	-0.14286 0.6207 8	-0.14286 0.6207 8	0.10911 0.7084 8	0.42857 0.1376 8	1.00000 0.0000 8	0.14286 0.6207 8	-0.18257 0.7180 4
BOT_ZN	-0.07143 0.8046 8	0.14286 0.6207 8	0.14286 0.6207 8	0.10911 0.7084 8	0.57143 0.0478 8	0.14286 0.6207 8	1.00000 0.0000 8	0.18257 0.7180 4
BOT_PCB	-0.19497 0.3854 13	0.54772 0.2786 4	0.54772 0.2786 4	-0.91287 0.0710 4	0.18257 0.7180 4	-0.18257 0.7180 4	0.18257 0.7180 4	1.00000 0.0000 13

SAS

8:34 MONDAY, FEBRUARY 24, 1992 12

STATION=21TXWQB 10060100

HOEFFDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 17	0.32143 0.0042 8	0.32143 0.0042 8	0.0067 0.3254 8	0.05357 0.1534 8	-0.08929 0.9999 8	-0.07143 0.9770 8	-0.04691 0.9971 13
BOT_AS	0.32143 0.0042 8	1.00000 0.0000 8	1.00000 0.0000 8	0.07366 0.1134 8	-0.01786 0.4931 8	-0.03571 0.6607 8	-0.05357 0.8457 8	. . 4
BOT_AS	0.32143 0.0042 8	1.00000 0.0000 8	1.00000 0.0000 8	0.07366 0.1134 8	-0.01786 0.4931 8	-0.03571 0.6607 8	-0.05357 0.8457 8	. . 4
BOT_CD	0.00670 0.3254 8	0.07366 0.1134 8	0.07366 0.1134 8	1.00000 0.0000 8	-0.03348 0.6379 8	-0.09375 1.0000 8	-0.04018 0.7072 8	. . 4
BOT_CU	0.05357 0.1534 8	-0.01786 0.4931 8	-0.01786 0.4931 8	-0.03348 0.6379 8	1.00000 0.0000 8	0.01786 0.2704 8	0.16071 0.0336 8	. . 4
BOT_PB	-0.08929 0.9999 8	-0.03571 0.6607 8	-0.03571 0.6607 8	-0.09375 1.0000 8	0.01786 0.2704 8	1.00000 0.0000 8	-0.14286 1.0000 8	. . 4
BOT_ZN	-0.07143 0.9770 8	-0.05357 0.8457 8	-0.05357 0.8457 8	-0.04018 0.7072 8	0.16071 0.0336 8	-0.14286 1.0000 8	1.00000 0.0000 8	. . 4
BOT_PCB	-0.04691 0.9971 13	. . 4	. . 4	. . 4	. . 4	. . 4	. . 4	1.00000 0.0000 13

STATION=21TXWB 10050100

VARIABLE	N	MEAN	STD DEV	MEDIAN	MINIMUM	MAXIMUM
DATE	14	8408.14285714	1483.48020428	8376.50000000	6467.00000000	11182.00000000
BOT_AS	10	5.21299953	2.80784634	4.19999933	2.48999977	9.13999939
BOT_AS	10	5.21299953	2.80784634	4.19999933	2.48999977	9.13999939
BOT_CD	10	1.50299974	1.36350898	1.19999981	0.19999999	4.00000000
BOT_CU	10	11.91999989	4.28687937	11.50000000	6.00000000	20.00000000
BOT_PB	10	28.74999975	15.54615050	25.79999542	11.00000000	54.00000000
BOT_ZN	10	63.88999796	25.44084616	53.50000000	36.59999084	110.00000000
BOT_PCB	8	16.10749975	7.20741405	20.00000000	4.11999989	20.00000000

PEARSON CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 14	-0.82587 0.0032 10	-0.82587 0.0000 10	-0.39532 0.0083 10	-0.02978 0.9349 10	0.66367 0.0364 10	0.17950 0.6197 10	-0.57072 0.1396 8
BOT_AS	-0.82587 0.0032 10	1.00000 0.0000 10	1.00000 0.0000 10	0.77584 0.0083 10	-0.10774 0.7670 10	-0.42701 0.2184 10	-0.48525 0.1551 10	0.49286 0.5071 4
BOT_AS	-0.82587 0.0032 10	1.00000 0.0000 10	1.00000 0.0000 10	0.77584 0.0083 10	-0.10774 0.7670 10	-0.42701 0.2184 10	-0.48525 0.1551 10	0.49286 0.5071 4
BOT_CD	-0.39532 0.2582 10	0.77584 0.0083 10	0.77584 0.0083 10	1.00000 0.0000 10	-0.12171 0.7377 10	-0.30280 0.3951 10	-0.56828 0.0865 10	0.64550 0.3545 4
BOT_CU	-0.02978 0.9349 10	-0.10774 0.7670 10	-0.10774 0.7670 10	-0.12171 0.7377 10	1.00000 0.0000 10	0.03696 0.9193 10	0.72477 0.0177 10	-0.75518 0.2448 4
BOT_PB	0.66367 0.0364 10	-0.42701 0.2184 10	-0.42701 0.2184 10	-0.30280 0.3951 10	0.03696 0.9193 10	1.00000 0.0000 10	0.21484 0.5511 10	-0.34708 0.6529 4
BOT_ZN	0.17950 0.6197 10	-0.48525 0.1551 10	-0.48525 0.1551 10	-0.56828 0.0865 10	0.72477 0.0177 10	0.21484 0.5511 10	1.00000 0.0000 10	-0.92442 0.0756 4
BOT_PCB	-0.57072 0.1396 8	0.49286 0.5071 4	0.49286 0.5071 4	0.64550 0.3545 4	-0.75518 0.2448 4	-0.34708 0.6529 4	-0.92442 0.0756 4	1.00000 0.0000 8

STATION=21TXWQB 10050100

SPEARMAN CORRELATION COEFFICIENTS / PROB > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.76596	-0.76596	-0.40620	0.03040	0.52727	0.38182	-0.51437
	0.0000	0.0098	0.0098	0.2441	0.9336	0.1173	0.2763	0.1922
	14	10	10	10	10	10	10	8
BOT_AS	-0.76596	1.00000	1.00000	0.75623	0.02744	-0.17629	-0.52280	0.10541
	0.0098	0.0000	0.0000	0.0114	0.9400	0.6261	0.1210	0.8946
	10	10	10	10	10	10	10	4
BOT_CD	-0.40620	0.75623	0.75623	1.00000	-0.28706	-0.10463	-0.58468	0.50000
	0.2441	0.0114	0.0114	0.0000	0.4213	0.7736	0.0759	0.5000
	10	10	10	10	10	10	10	4
BOT_CU	0.03040	0.02744	0.02744	-0.28706	1.00000	0.11550	0.56535	-0.73786
	0.9336	0.9400	0.9400	0.4213	0.0000	0.7507	0.0885	0.2621
	10	10	10	10	10	10	10	4
BOT_PB	0.52727	-0.17629	-0.17629	-0.10463	0.11550	1.00000	0.41818	-0.21082
	0.1173	0.6261	0.6261	0.7736	0.7507	0.0000	0.2291	0.7892
	10	10	10	10	10	10	10	4
BOT_ZN	0.38182	-0.52280	-0.52280	-0.58468	0.56535	0.41818	1.00000	-0.73786
	0.2763	0.1210	0.1210	0.0759	0.0885	0.2291	0.0000	0.2621
	10	10	10	10	10	10	10	4
BOT_PCB	-0.51437	0.10541	0.10541	0.50000	-0.73786	-0.21082	-0.73786	1.00000
	0.1922	0.8946	0.8946	0.5000	0.2621	0.7892	0.2621	0.0000
	8	4	4	4	4	4	4	8

STATION=21TXWQB 10050100

KENDALL TAU B CORRELATION COEFFICIENTS / PROJ > |R| UNDER H0:RHO=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000	-0.58431	-0.58431	-0.16297	0.04495	0.33333	0.15556	-0.47173
	0.0000	0.0196	0.0196	0.5234	0.8575	0.1797	0.5312	0.1390
	14	10	10	10	10	10	10	8
BOT_AS	-0.58431	1.00000	1.00000	0.61215	0.06818	-0.13484	-0.40452	0.18257
	0.0196	0.0000	0.0000	0.0174	0.7868	0.5900	0.1060	0.7180
	10	10	10	10	10	10	10	4
BOT_AS	-0.58431	1.00000	1.00000	0.61215	0.06818	-0.13484	-0.40452	0.18257
	0.0196	0.0000	0.0000	0.0174	0.7868	0.5900	0.1060	0.7180
	10	10	10	10	10	10	10	4
BOT_CD	-0.16297	0.61215	0.61215	1.00000	-0.18835	-0.06984	-0.53546	0.40000
	0.5234	0.0174	0.0174	0.0000	0.4641	0.7845	0.0360	0.4442
	10	10	10	10	10	10	10	4
BOT_CU	0.04495	0.06818	0.06818	-0.18835	1.00000	0.08989	0.40452	-0.54772
	0.8575	0.7868	0.7868	0.4641	0.0000	0.7194	0.1060	0.2786
	10	10	10	10	10	10	10	4
BOT_PB	0.33333	-0.13484	-0.13484	-0.06984	0.08989	1.00000	0.28889	-0.18257
	0.1797	0.5900	0.5900	0.7845	0.7194	0.0000	0.2449	0.7180
	10	10	10	10	10	10	10	4
BOT_ZN	0.15556	-0.40452	-0.40452	-0.53546	0.40452	0.28889	1.00000	-0.54772
	0.5312	0.1060	0.1060	0.0360	0.1060	0.2449	0.0000	0.2786
	10	10	10	10	10	10	10	4
BOT_PCB	-0.47173	0.18257	0.18257	0.40000	-0.54772	-0.18257	-0.54772	1.00000
	0.1390	0.7180	0.7180	0.4442	0.2786	0.7180	0.2786	0.0000
	8	4	4	4	4	4	4	8

STATION=21TXWQB 10050100

HOFFEDING DEPENDENCE COEFFICIENTS / PROB > D UNDER H0:D=0 / NUMBER OF OBSERVATIONS

	DATE	BOT_AS	BOT_AS	BOT_CD	BOT_CU	BOT_PB	BOT_ZN	BOT_PCB
DATE	1.00000 0.0000 14	0.28026 0.0026 10	0.28026 0.0026 10	0.01389 0.2704 10	-0.05704 0.9837 10	-0.06746 0.9998 10	-0.01587 0.5147 10	-0.13393 1.0000 8
BOT_AS	0.28026 0.0026 10	1.00000 0.0000 10	1.00000 0.0000 10	0.08811 0.0642 10	-0.07831 1.0000 10	-0.01389 0.4931 10	0.08333 0.0700 10	. . 4
BOT_AS	0.28026 0.0026 10	1.00000 0.0000 10	1.00000 0.0000 10	0.08811 0.0642 10	-0.07831 1.0000 10	-0.01389 0.4931 10	0.08333 0.0700 10	. . 4
BOT_CD	0.01389 0.2704 10	0.08811 0.0642 10	0.08811 0.0642 10	1.00000 0.0000 10	-0.03392 0.7434 10	-0.01935 0.5546 10	0.20982 0.0081 10	. . 4
BOT_CU	-0.05704 0.9837 10	-0.07831 1.0000 10	-0.07831 1.0000 10	-0.03392 0.7434 10	1.00000 0.0000 10	-0.03621 0.7745 10	0.11161 0.0423 10	. . 4
BOT_PB	-0.06746 0.9998 10	-0.01389 0.4931 10	-0.01389 0.4931 10	-0.01935 0.5546 10	-0.03621 0.7745 10	1.00000 0.0000 10	0.00397 0.3342 10	. . 4
BOT_ZN	-0.01587 0.5147 10	0.08333 0.0700 10	0.08333 0.0700 10	0.20982 0.0081 10	0.11161 0.0423 10	0.00397 0.3342 10	1.00000 0.0000 10	. . 4
BOT_PCB	-0.13393 1.0000 8	. . 4	. . 4	. . 4	. . 4	. . 4	. . 4	1.00000 0.0000 8

APPENDIX C

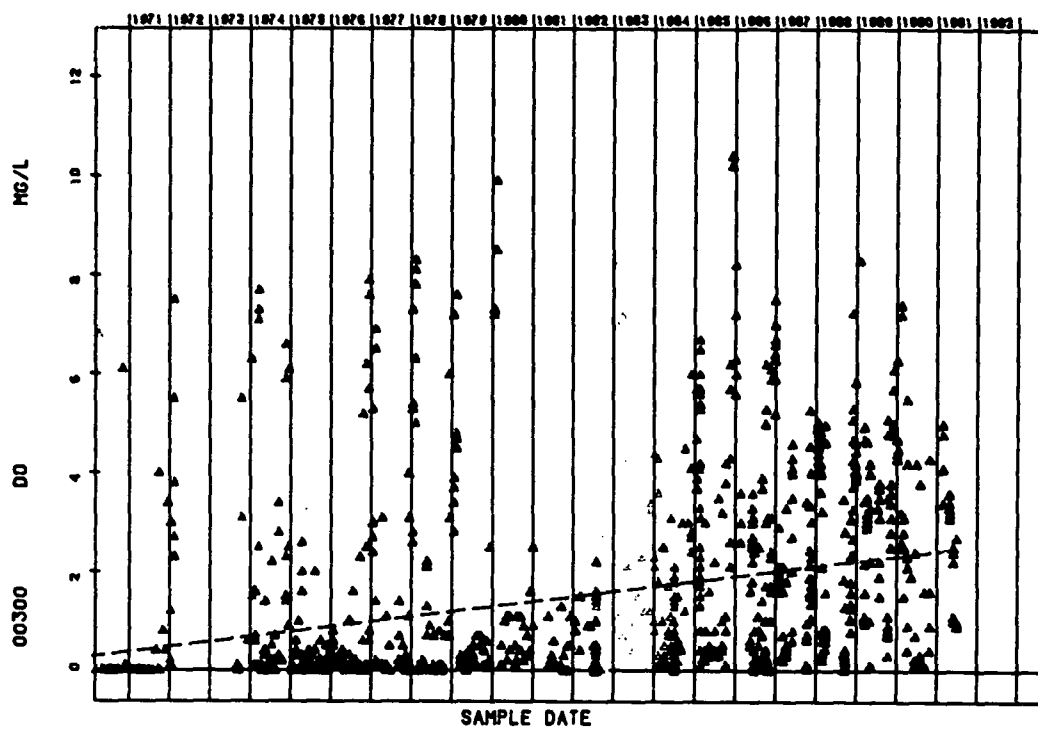
Plots of Concentrations Over Time

Appendix A consists of plots of ambient monitoring data are for the period 1970-91. The groups of parameters evaluated include conventionals, nutrients, and heavy metals in the water column, and concentrations of heavy metals and PCBs in sediment. Plots were developed using the STORET program PGM=Plot, which incorporates all data, including remarked values. The dashed line in each plot is the least squares regression line.

DISSOLVED OXYGEN

10070800

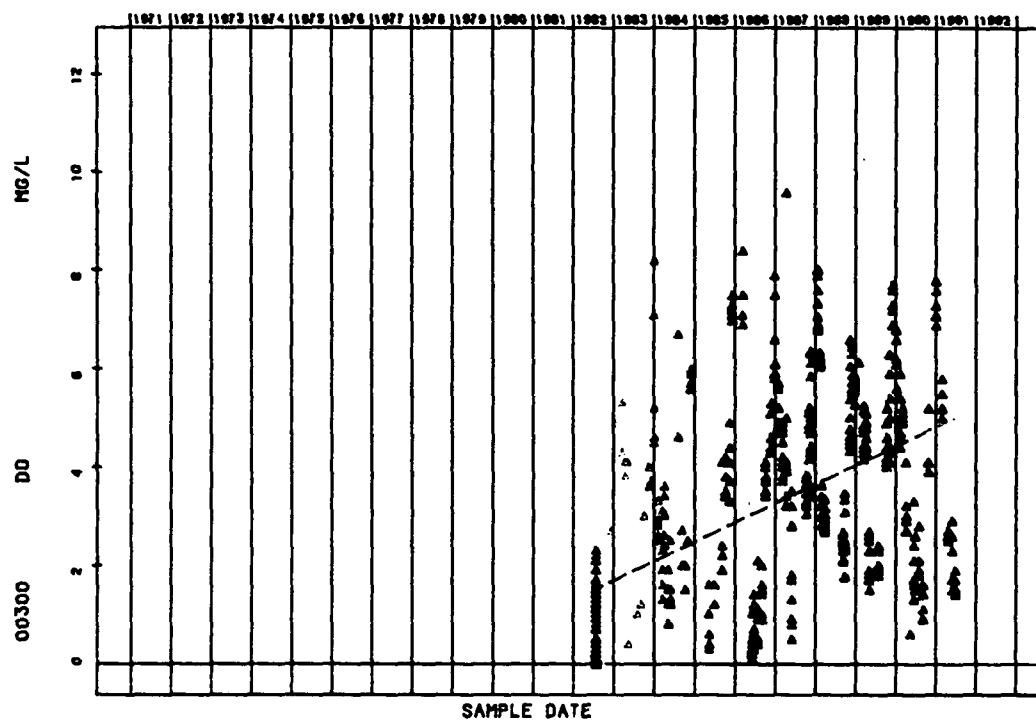
HOUSTON SHIP CHANNEL AT TURNING BASIN



DISSOLVED OXYGEN

10060200

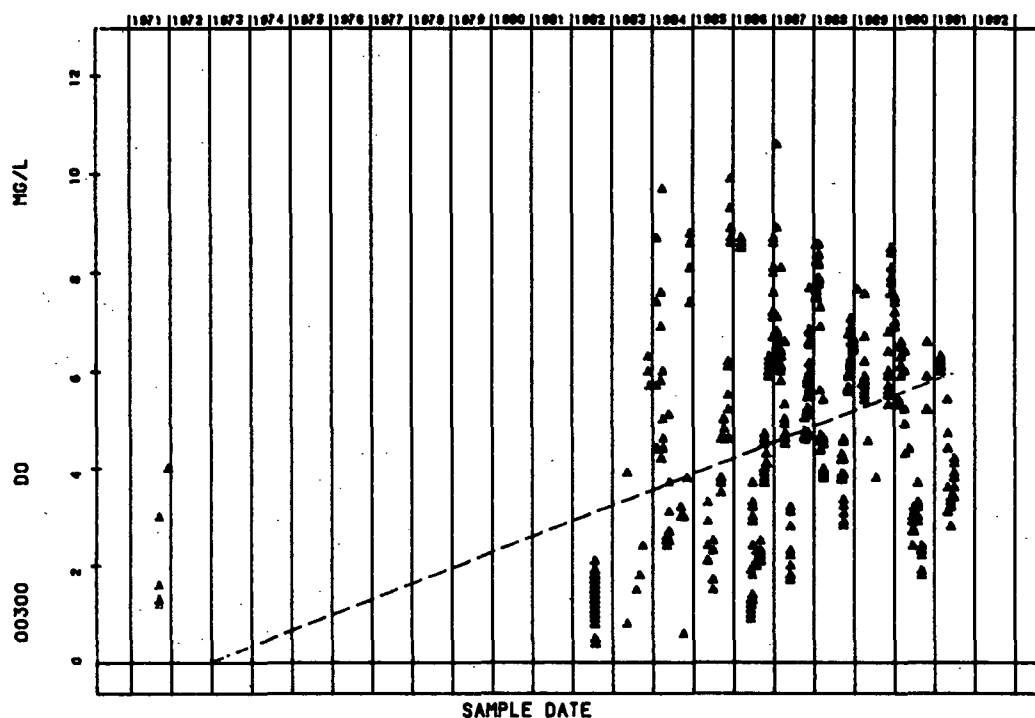
HOUSTON SHIP CHANNEL AT GREENS BAYOU



DISSOLVED OXYGEN

10060100

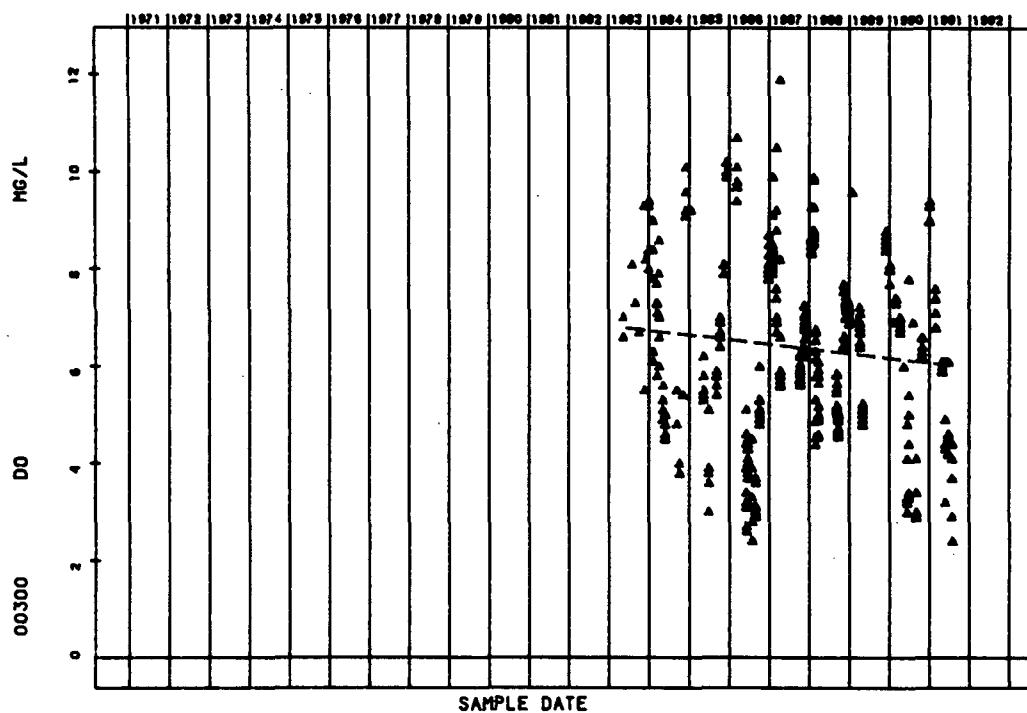
HOUSTON SHIP CHANNEL AT SJ MONUMENT



DISSOLVED OXYGEN

10050200

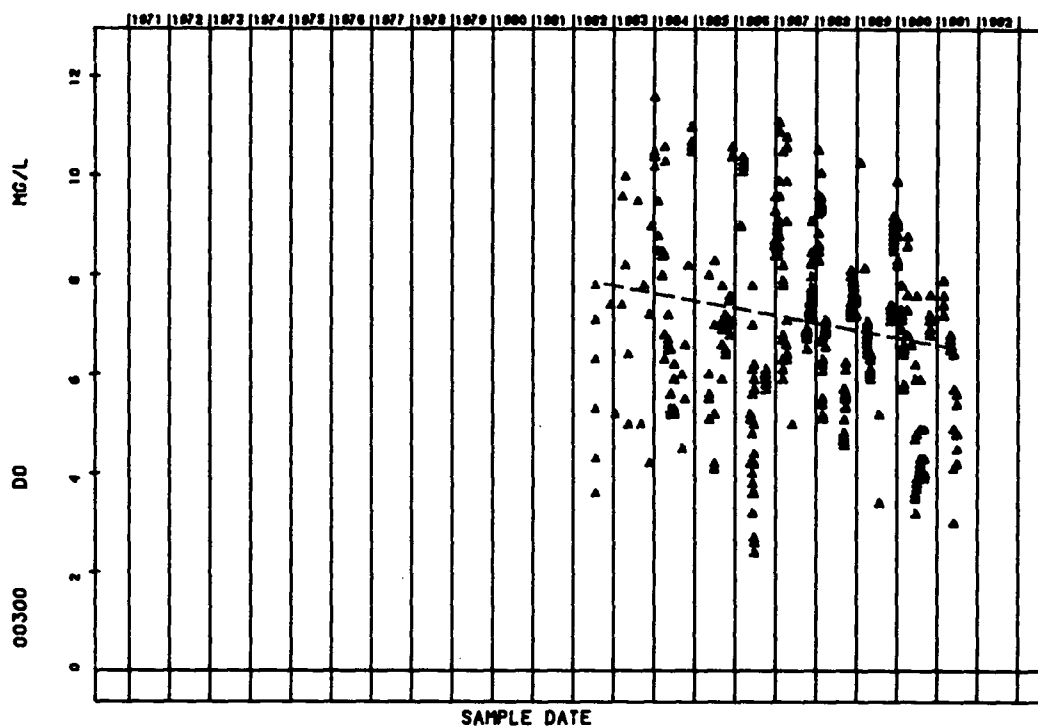
HOUSTON SHIP CHANNEL AT CM 120



DISSOLVED OXYGEN

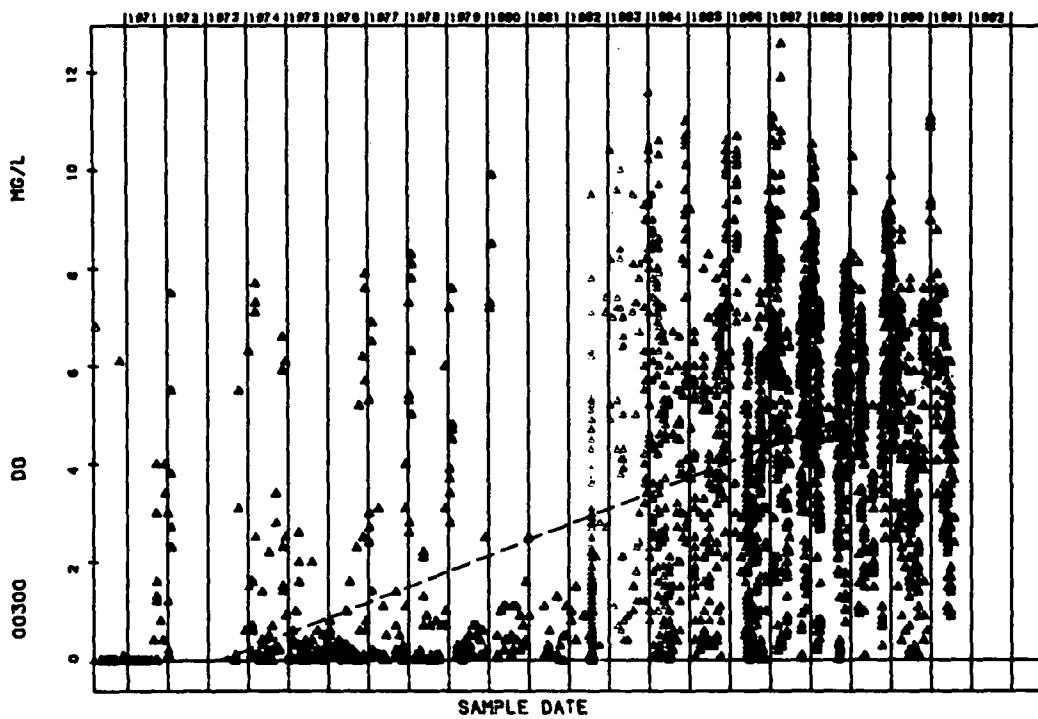
10050100

HOUSTON SHIP CHANNEL AT MORGANS POINT



DISSOLVED OXYGEN

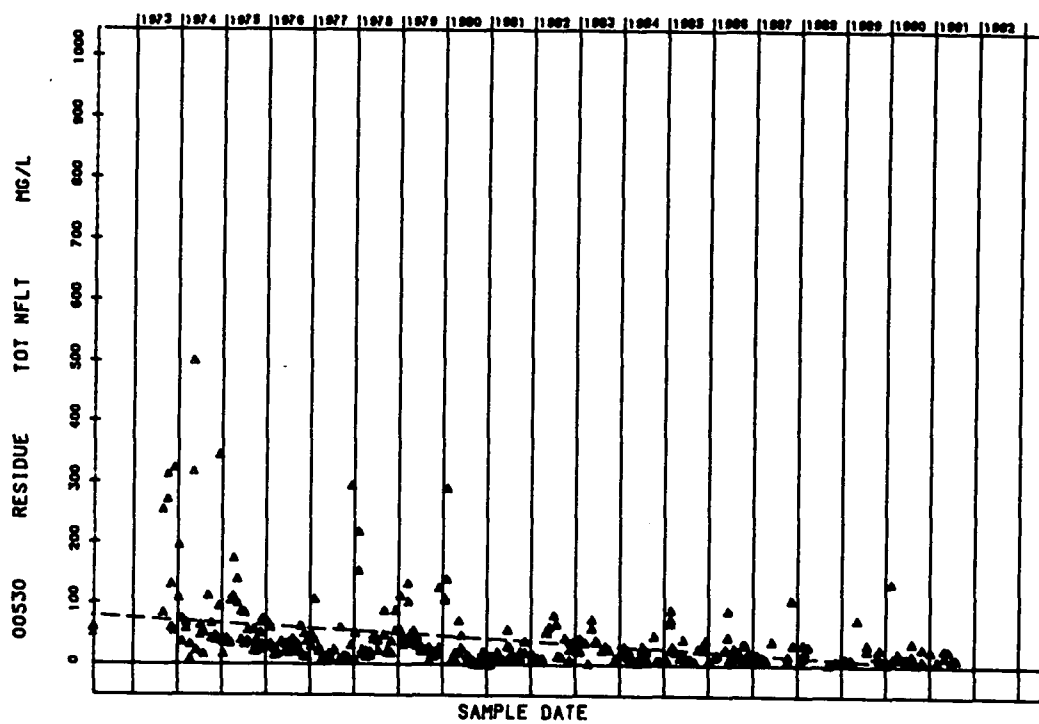
HOUSTON SHIP CHANNEL - OVERALL



TOTAL SUSPENDED SOLIDS

10070800

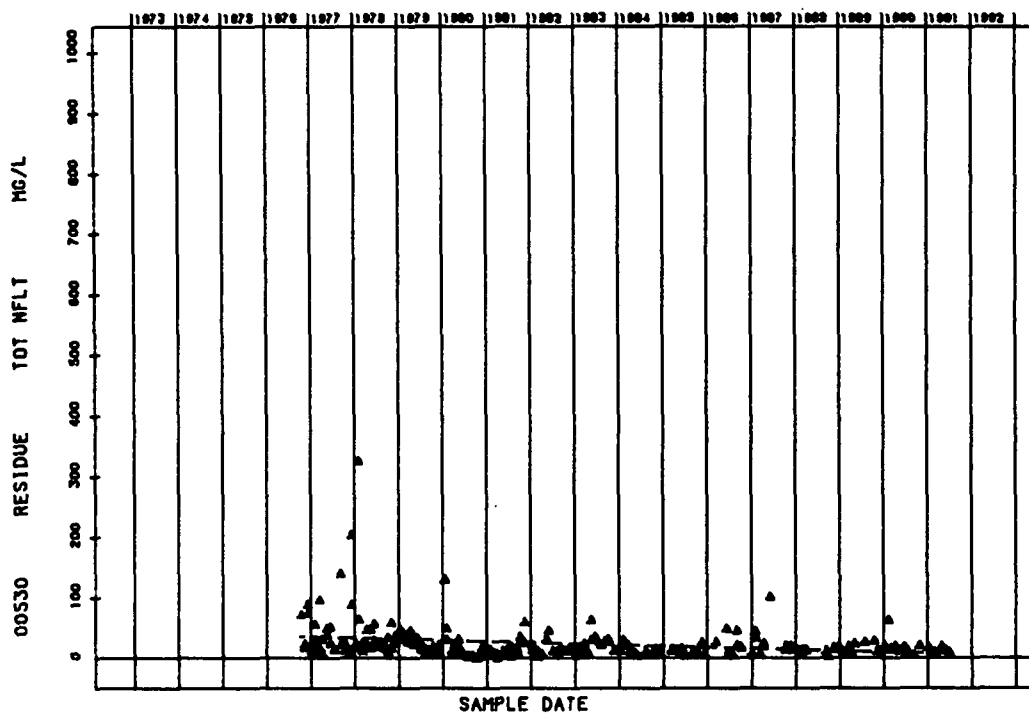
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL SUSPENDED SOLIDS

10060200

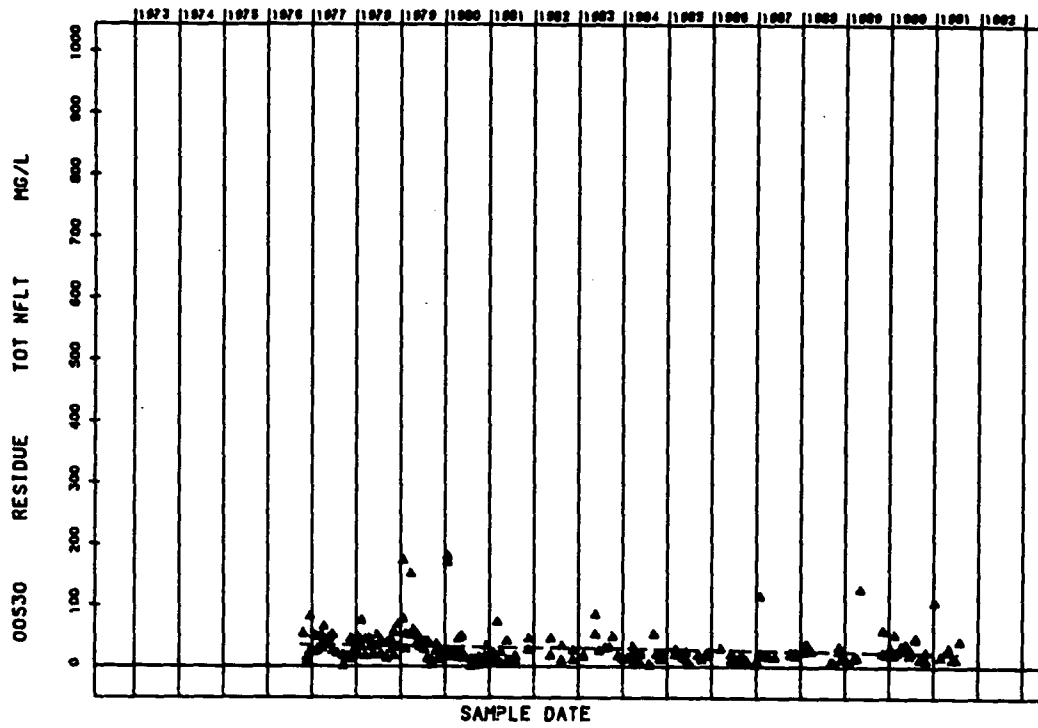
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL SUSPENDED SOLIDS

10060100

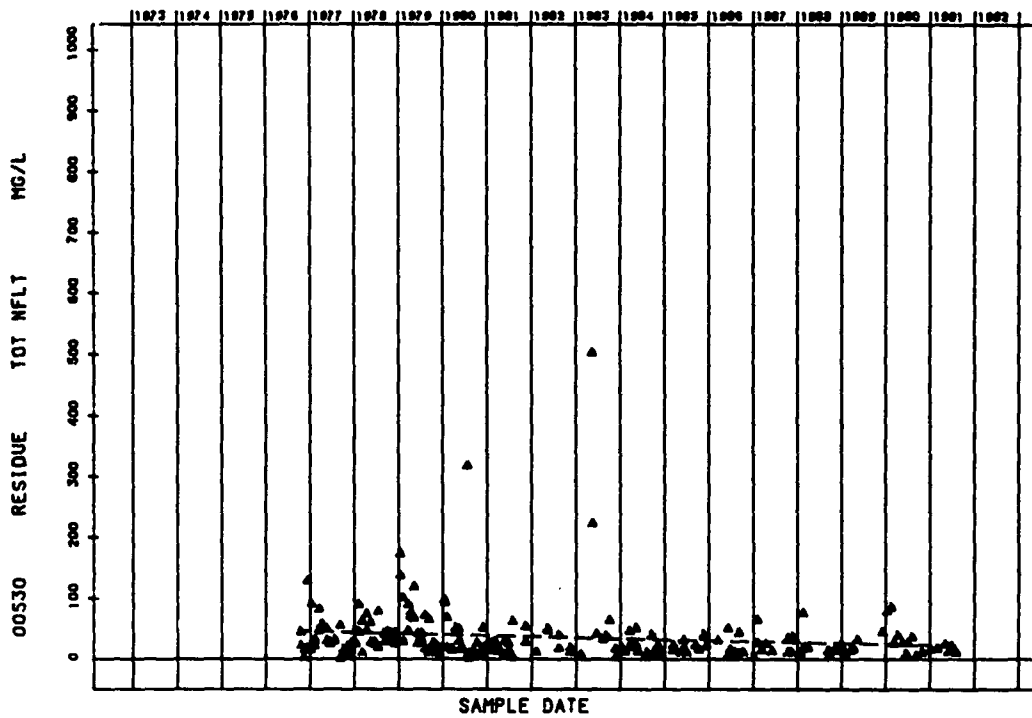
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL SUSPENDED SOLIDS

10050200

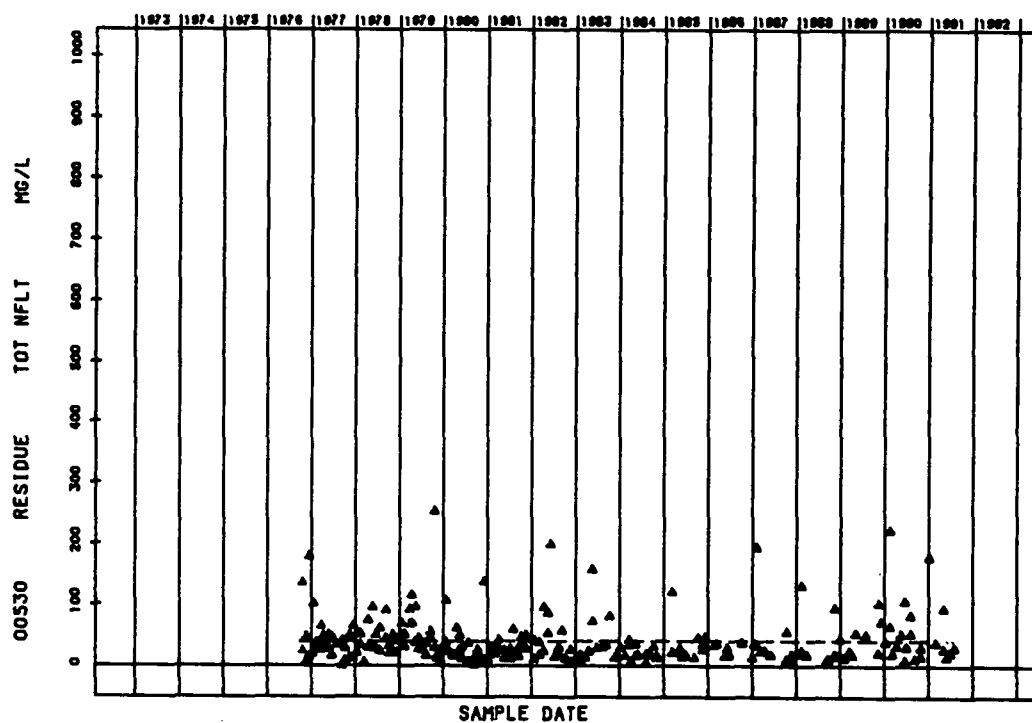
HOUSTON SHIP CHANNEL AT CM 120



TOTAL SUSPENDED SOLIDS

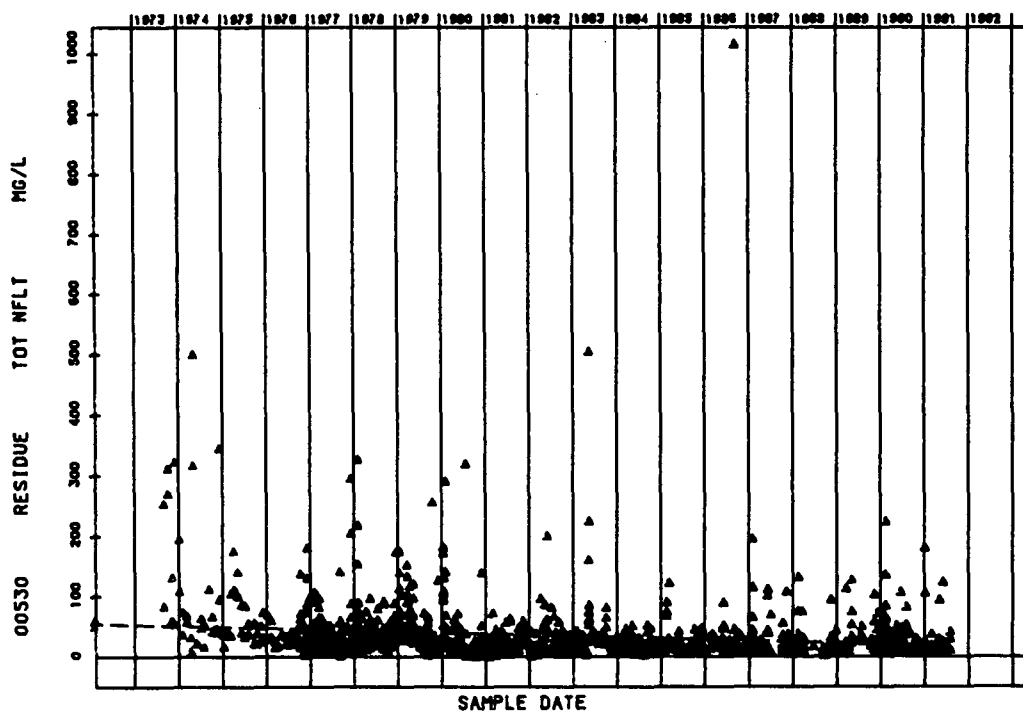
10050100

HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL SUSPENDED SOLIDS

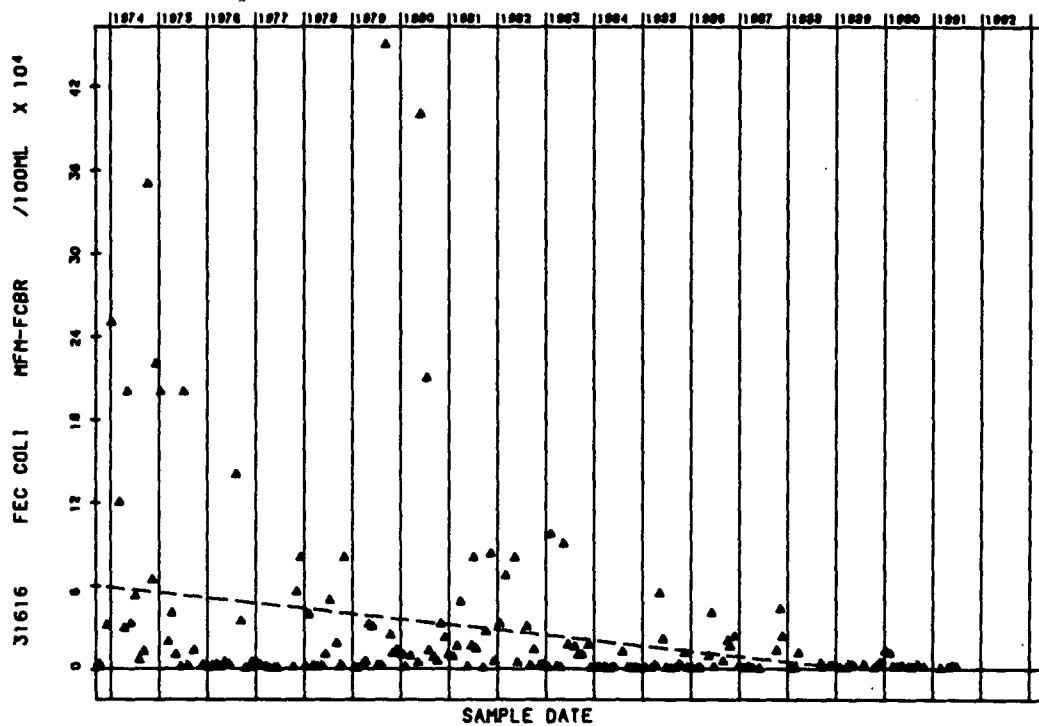
HOUSTON SHIP CHANNEL - OVERALL



FECAL COLIFORMS

10070800

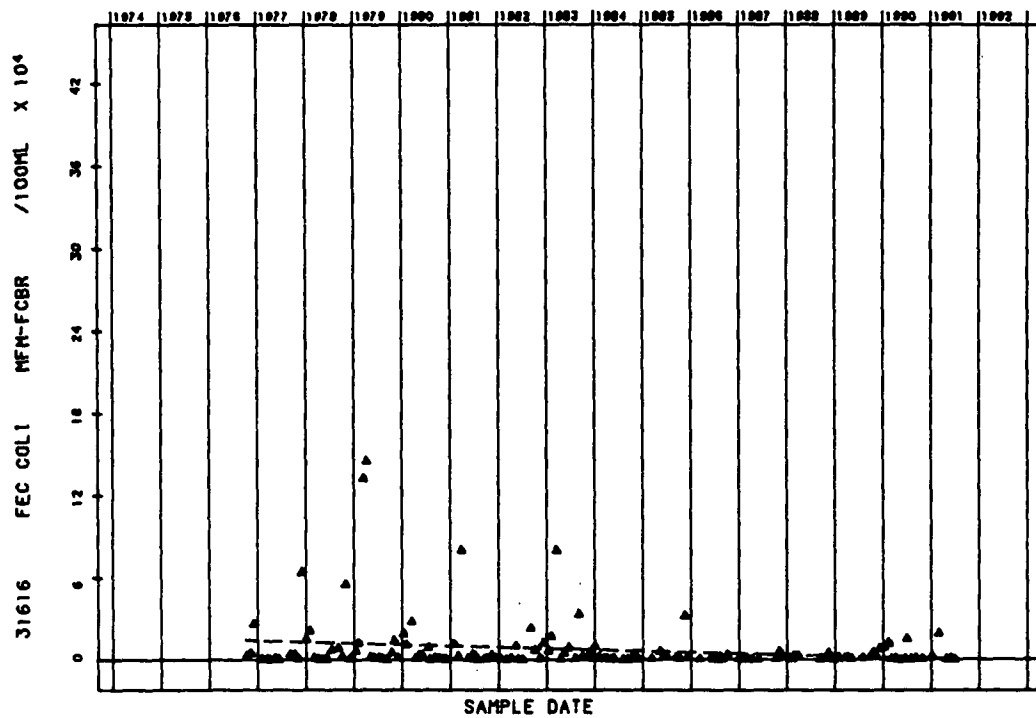
HOUSTON SHIP CHANNEL AT TURNING BASIN



FECAL COLIFORMS

10060200

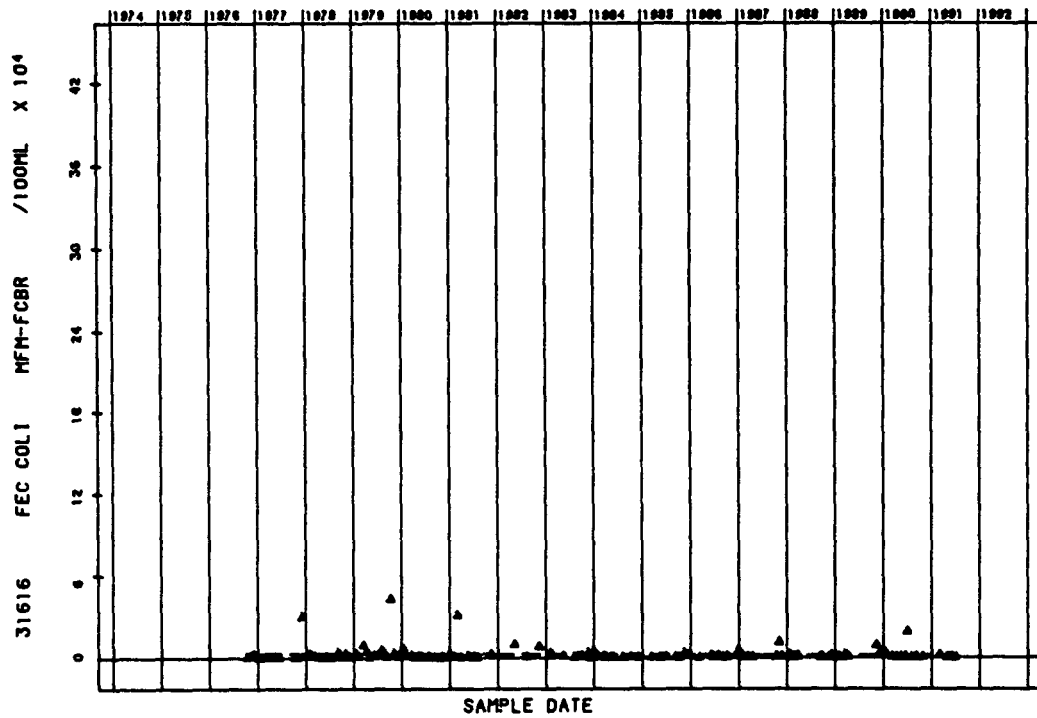
HOUSTON SHIP CHANNEL AT GREENS BAYOU



FECAL COLIFORMS

10060100

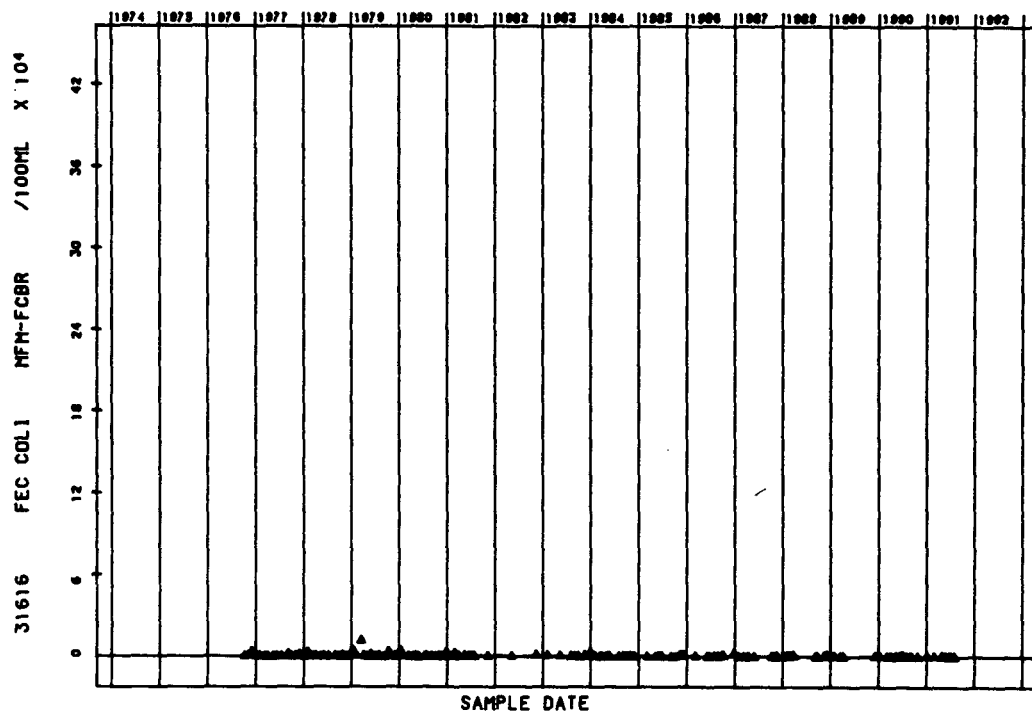
HOUSTON SHIP CHANNEL AT SJ MONUMENT



FECAL COLIFORMS

10050200

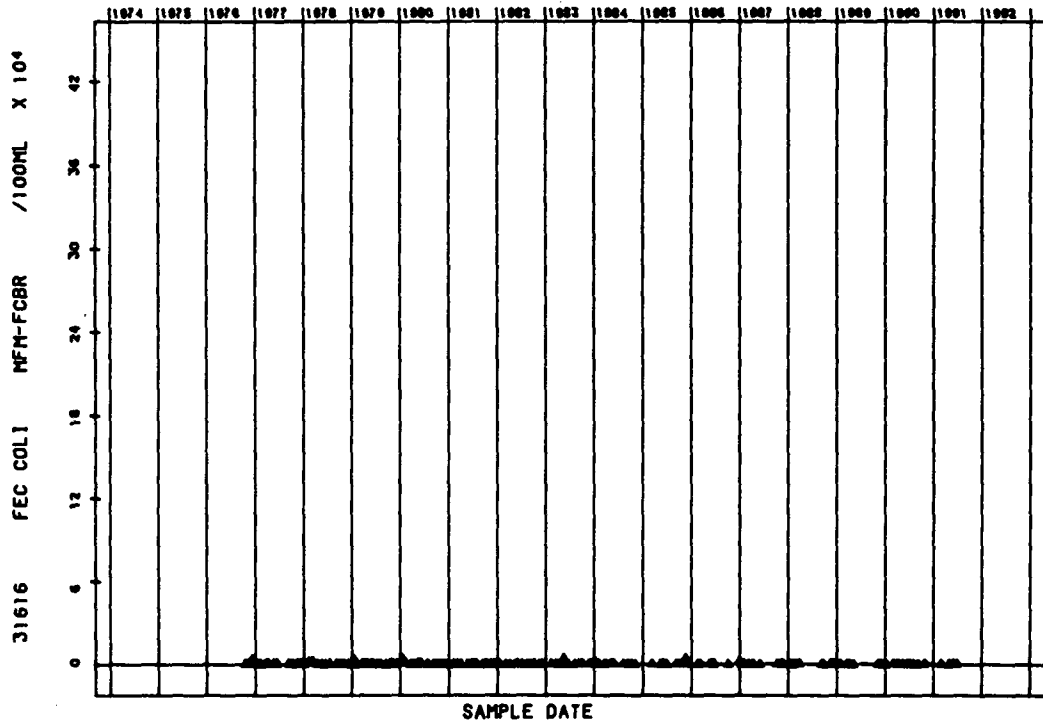
HOUSTON SHIP CHANNEL AT CM 120



FECAL COLIFORMS

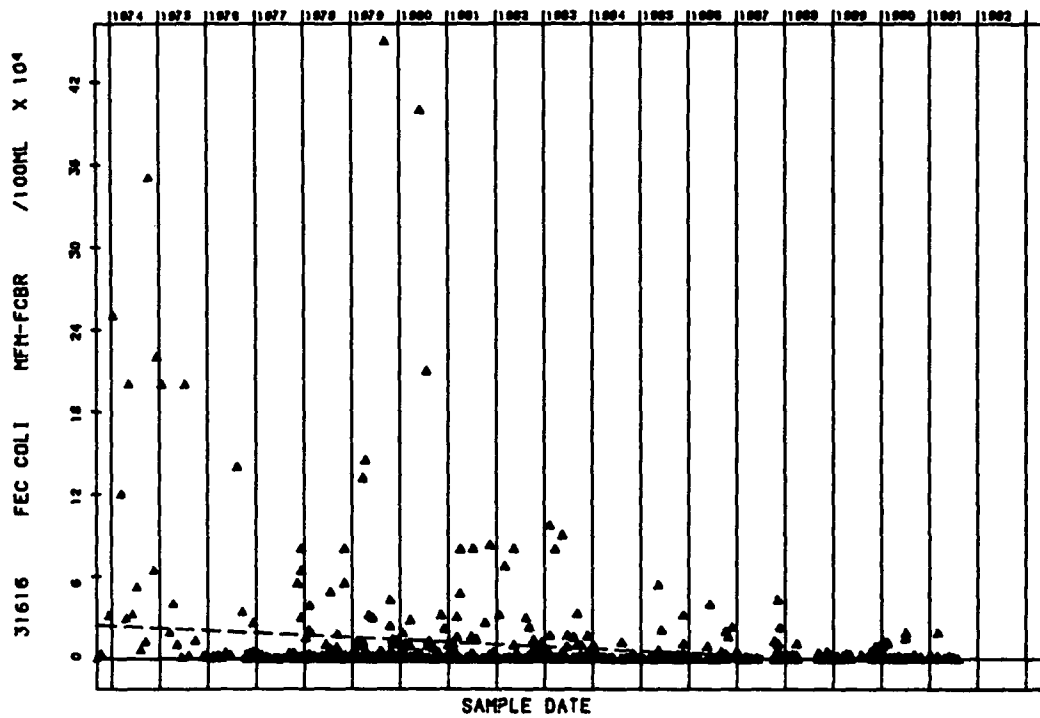
10050100

HOUSTON SHIP CHANNEL AT MORGANS POINT



FECAL COLIFORMS

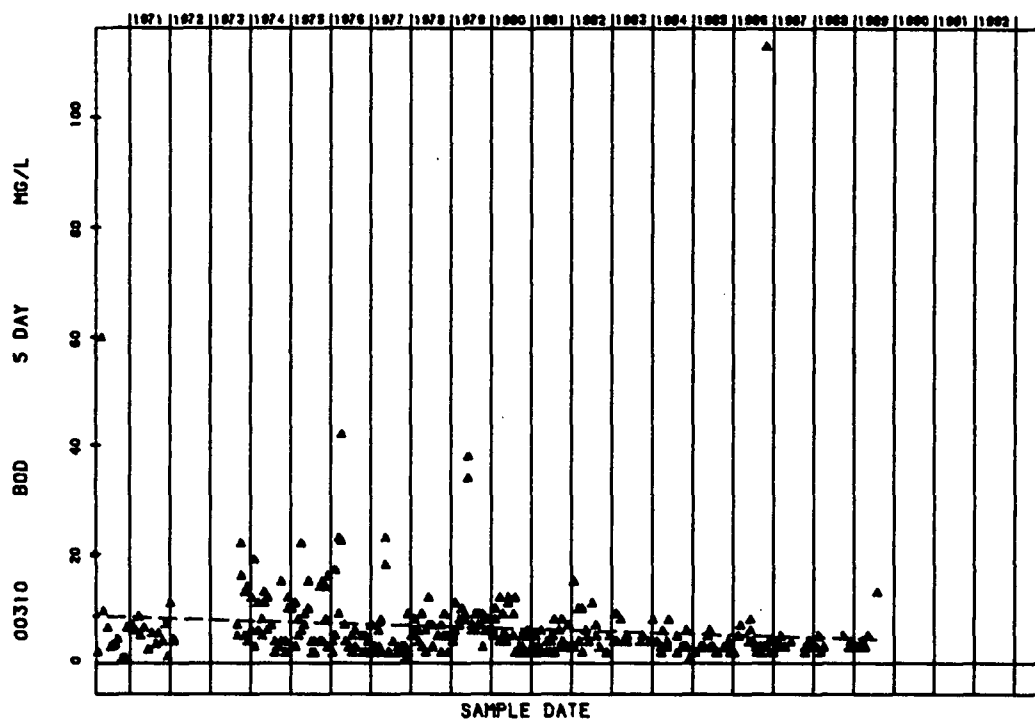
HOUSTON SHIP CHANNEL - OVERALL



BOD-5DAY

10070800

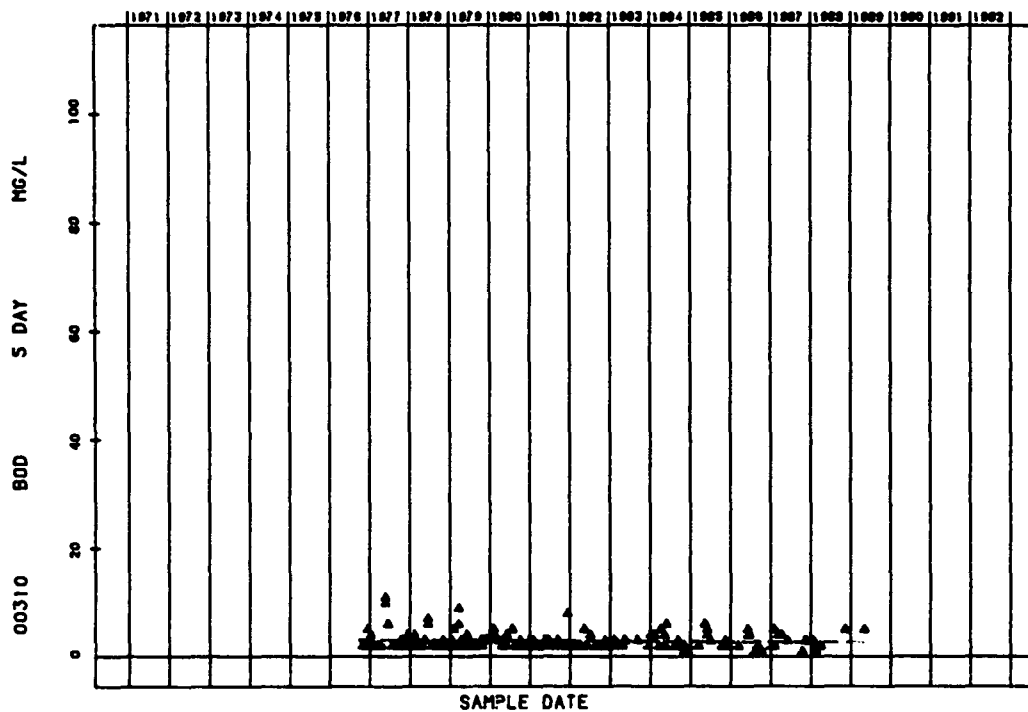
HOUSTON SHIP CHANNEL AT TURNING BASIN



BOD-5DAY

10060200

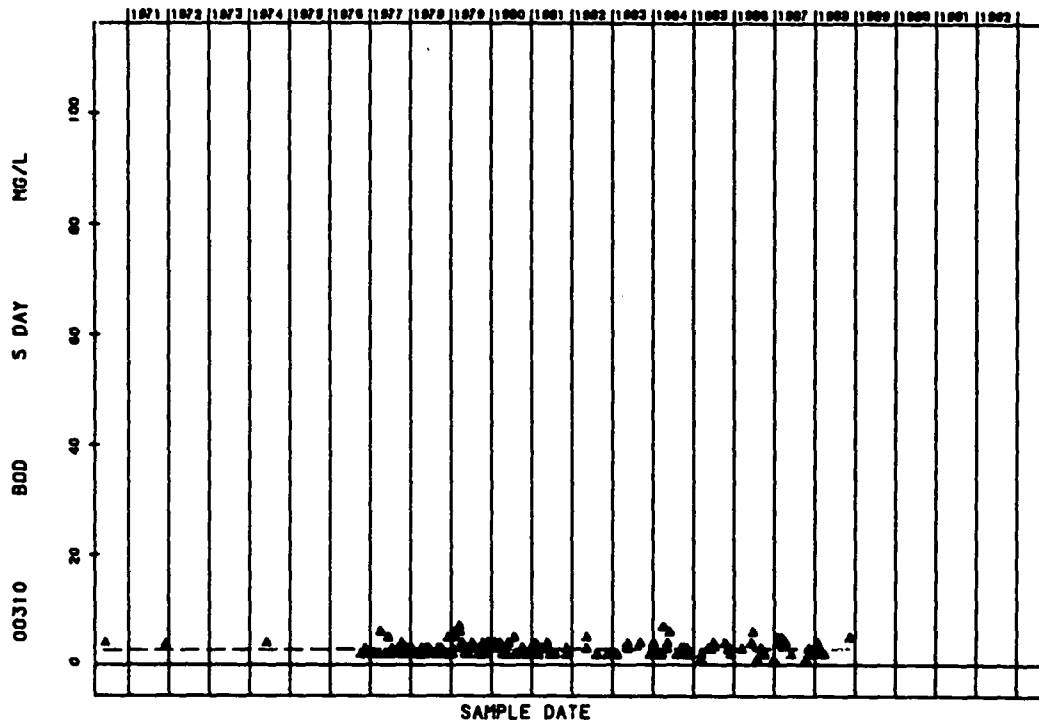
HOUSTON SHIP CHANNEL AT GREENS BAYOU



BOD-5DAY

10060100

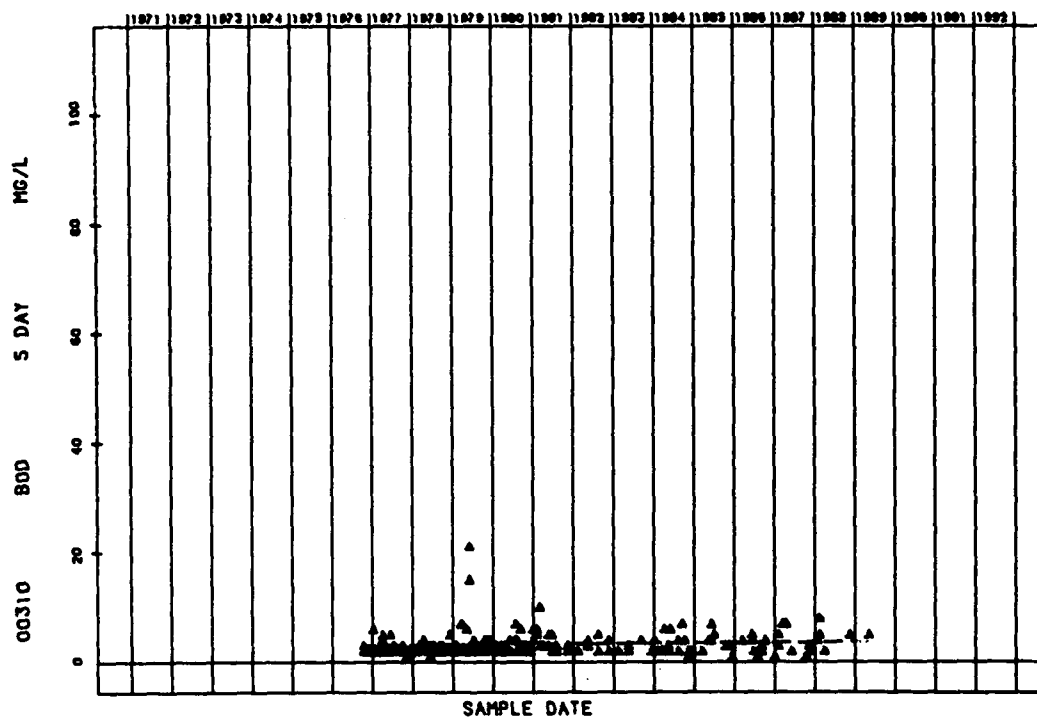
HOUSTON SHIP CHANNEL AT SJ MONUMENT



BOD-5DAY

10050200

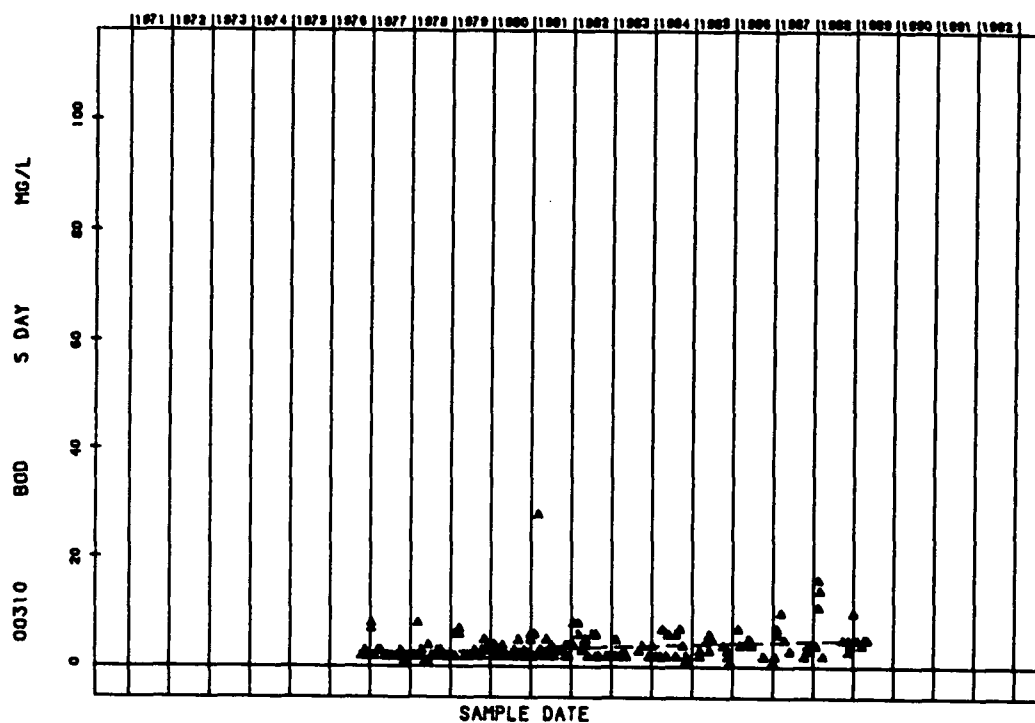
HOUSTON SHIP CHANNEL AT CM 120



BOD-5DAY

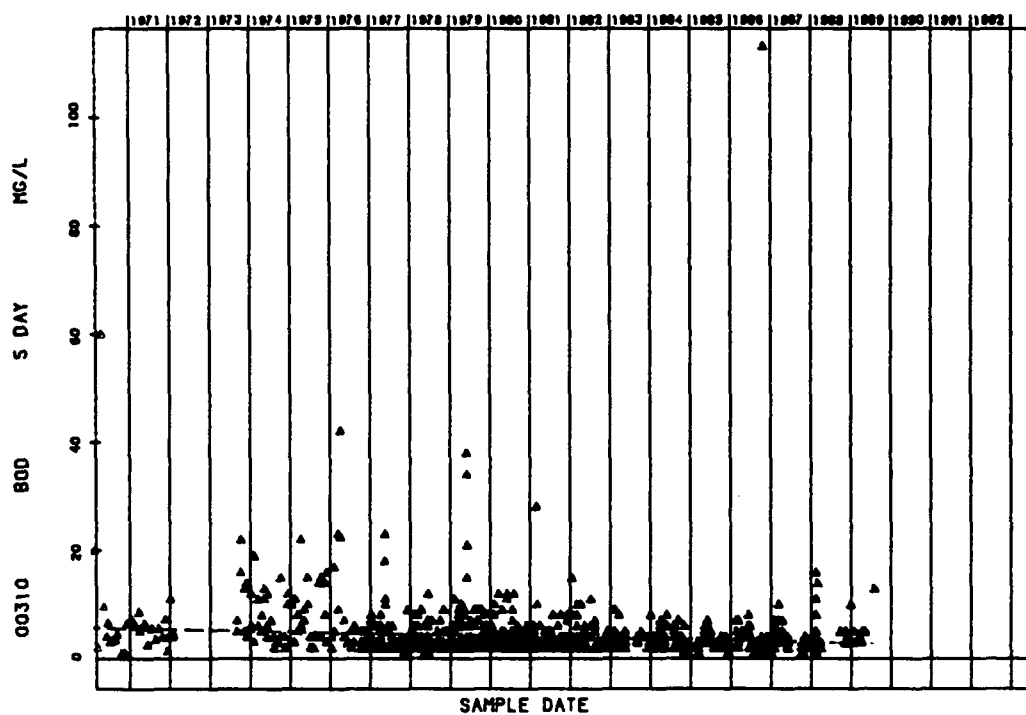
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HOUSTON SHIP CHANNEL AT MORGANS POINT



BOD-5DAY

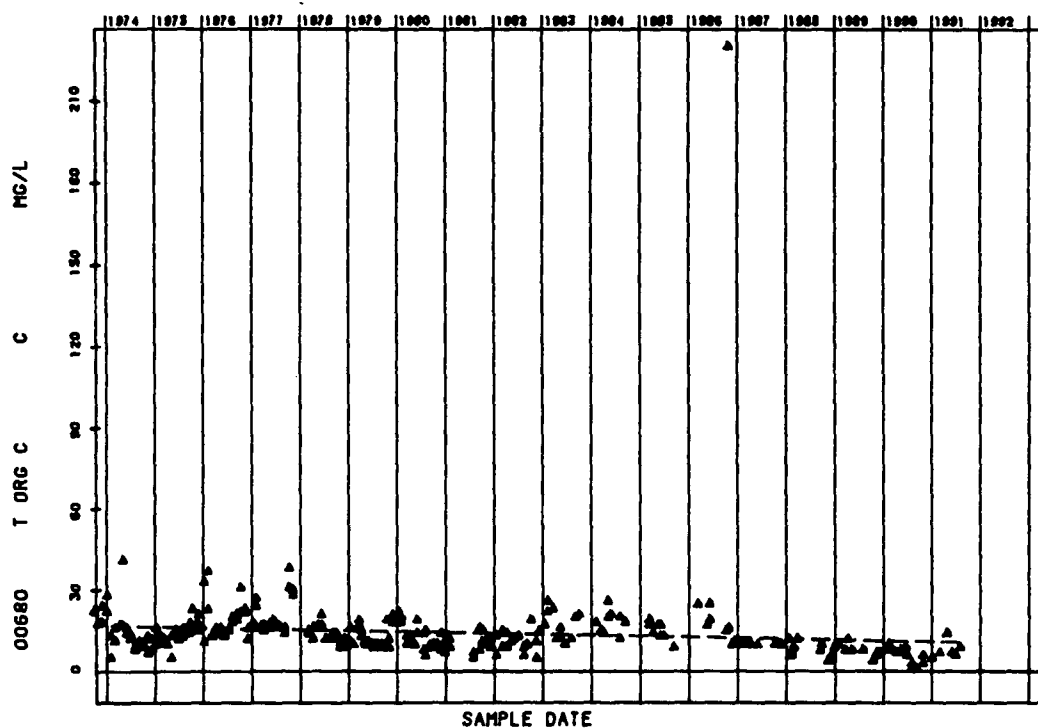
HOUSTON SHIP CHANNEL - OVERALL



TOTAL ORGANIC CARBON

10070800

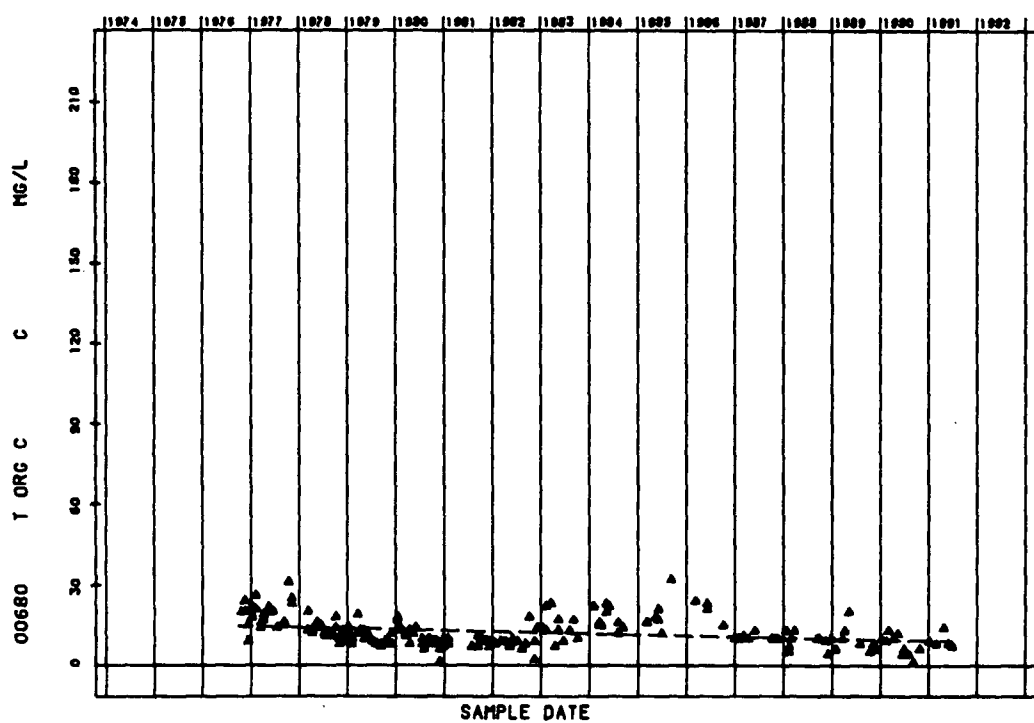
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL ORGANIC CARBON

10060200

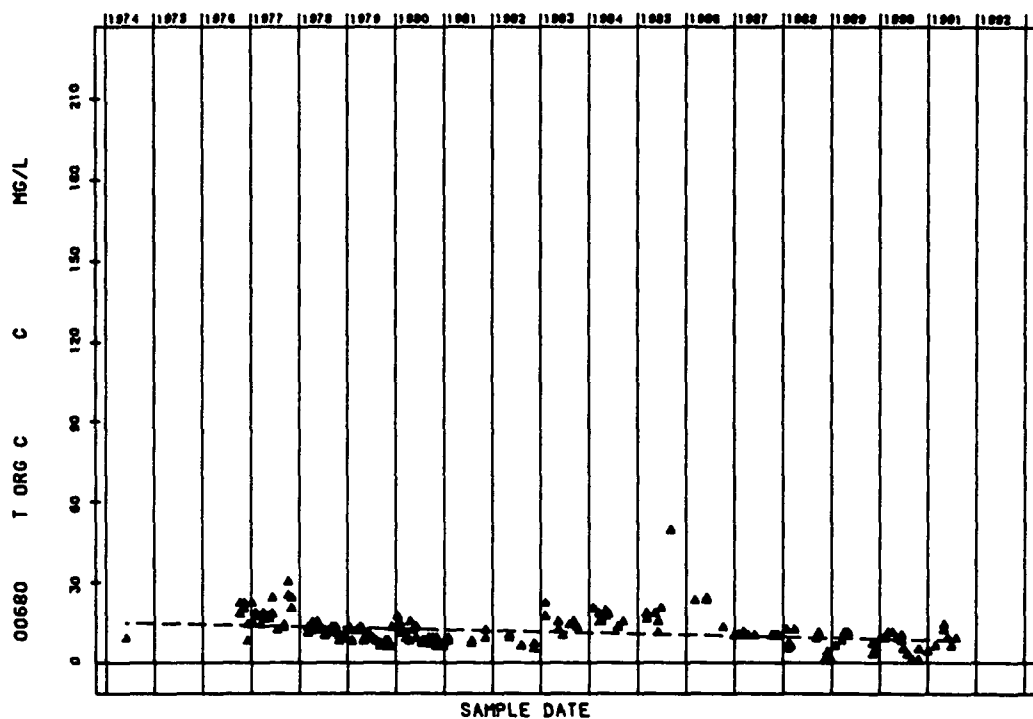
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL ORGANIC CARBON

10060100

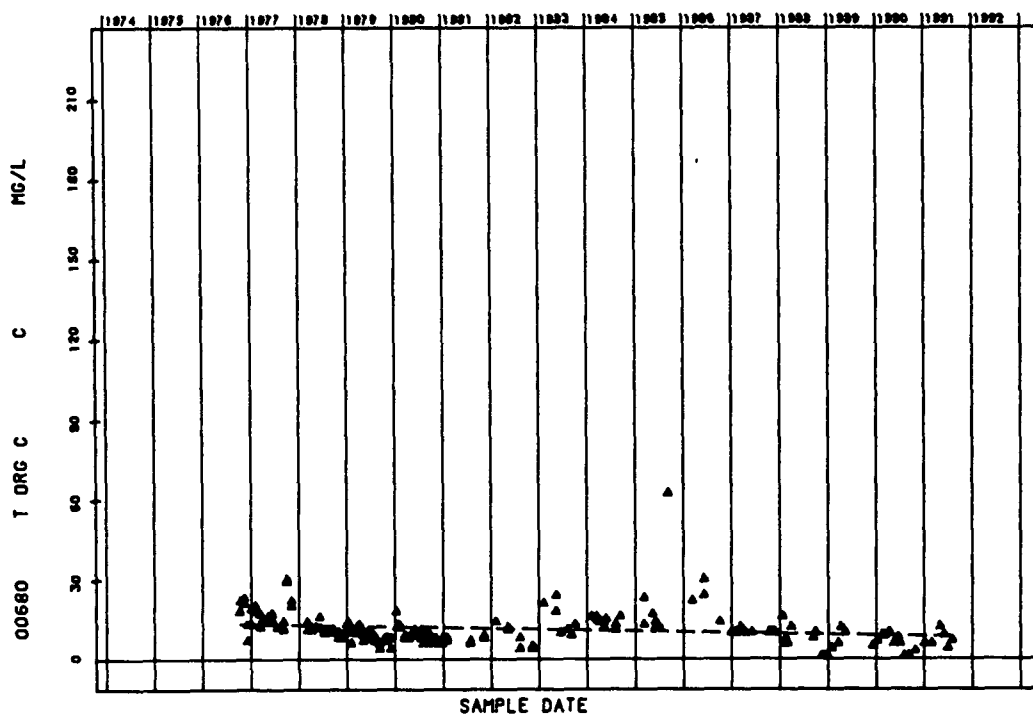
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL ORGANIC CARBON

10050200

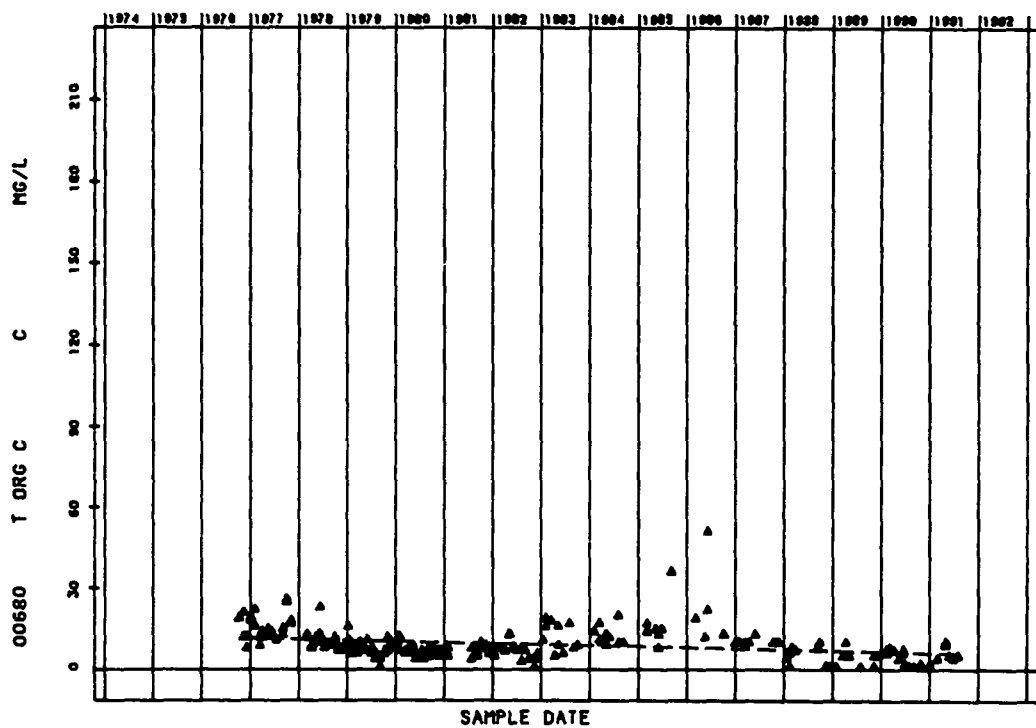
HOUSTON SHIP CHANNEL AT CM 120



TOTAL ORGANIC CARBON

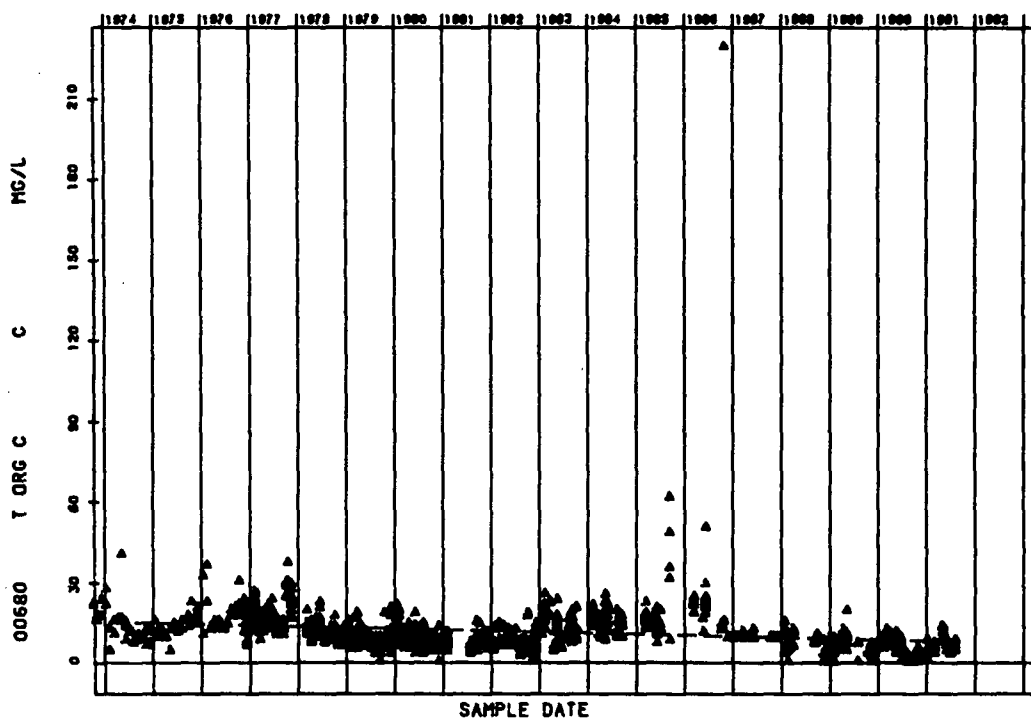
10050100

HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL ORGANIC CARBON

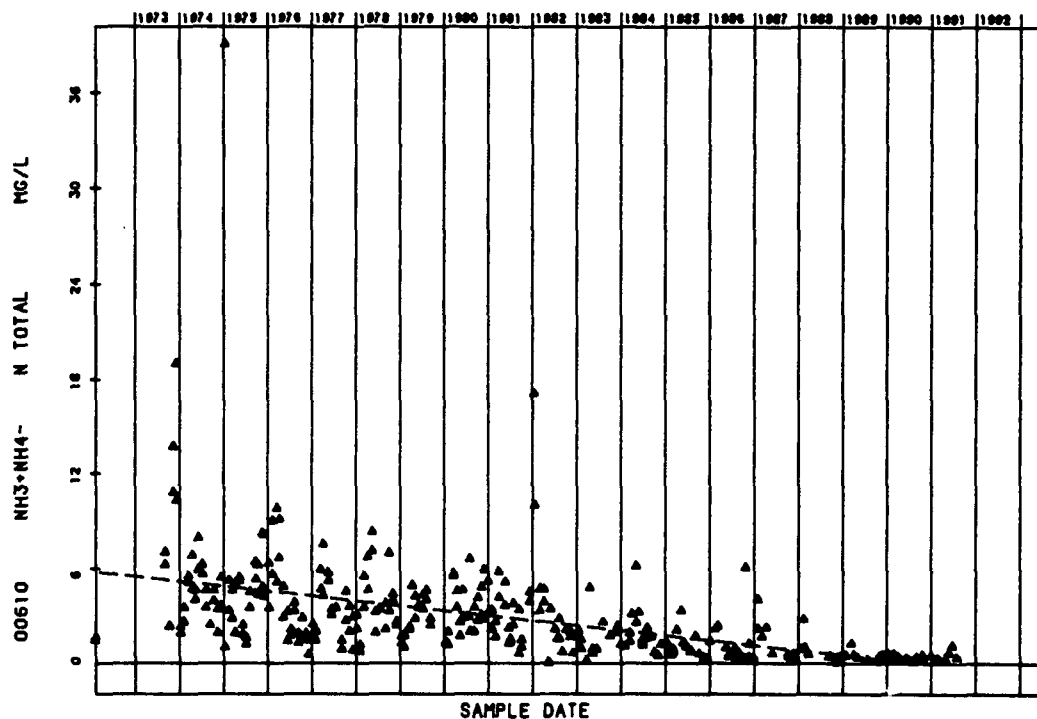
HOUSTON SHIP CHANNEL - OVERALL



AMMONIA-NITROGEN

10070800

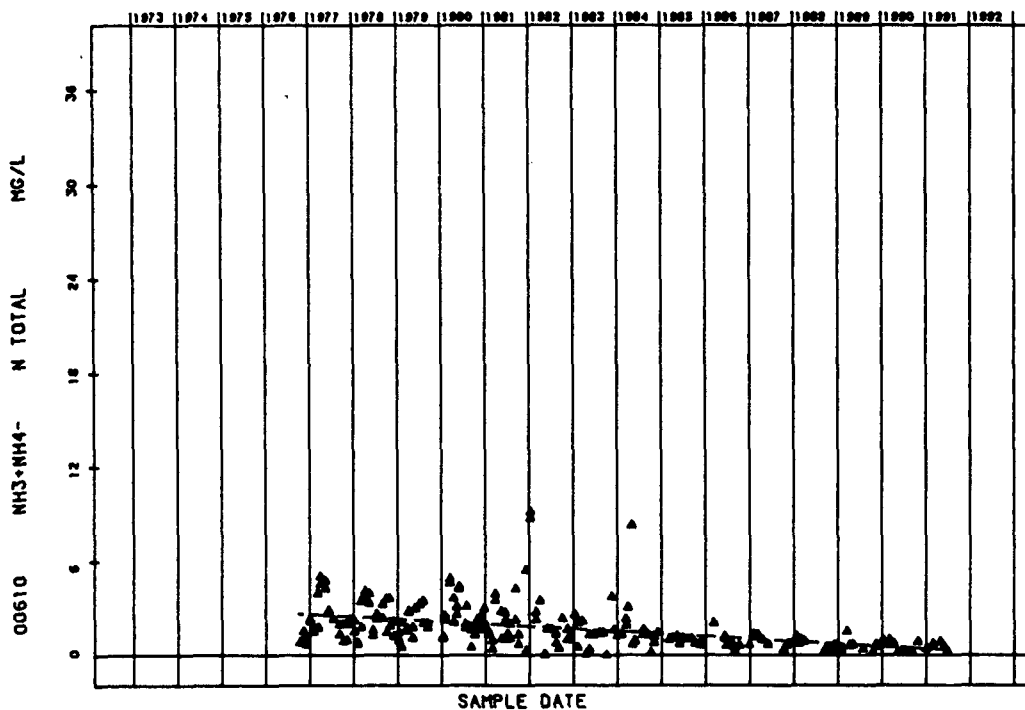
HOUSTON SHIP CHANNEL AT TURNING BASIN



AMMONIA-NITROGEN

10060200

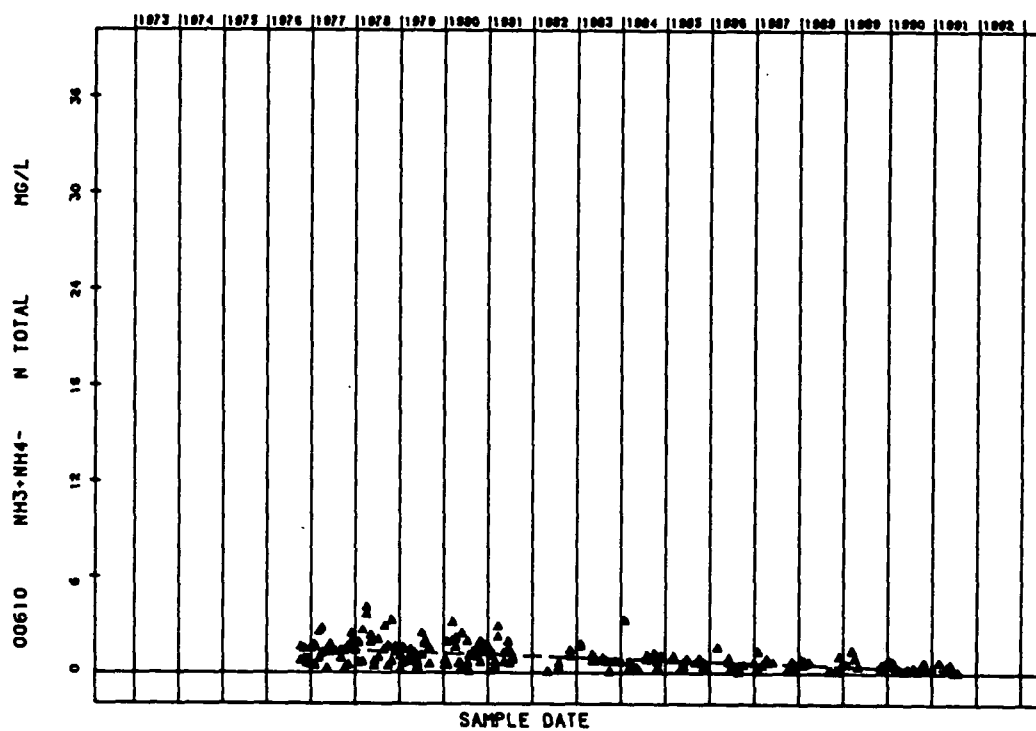
HOUSTON SHIP CHANNEL AT GREENS BAYOU



AMMONIA-NITROGEN

10060100

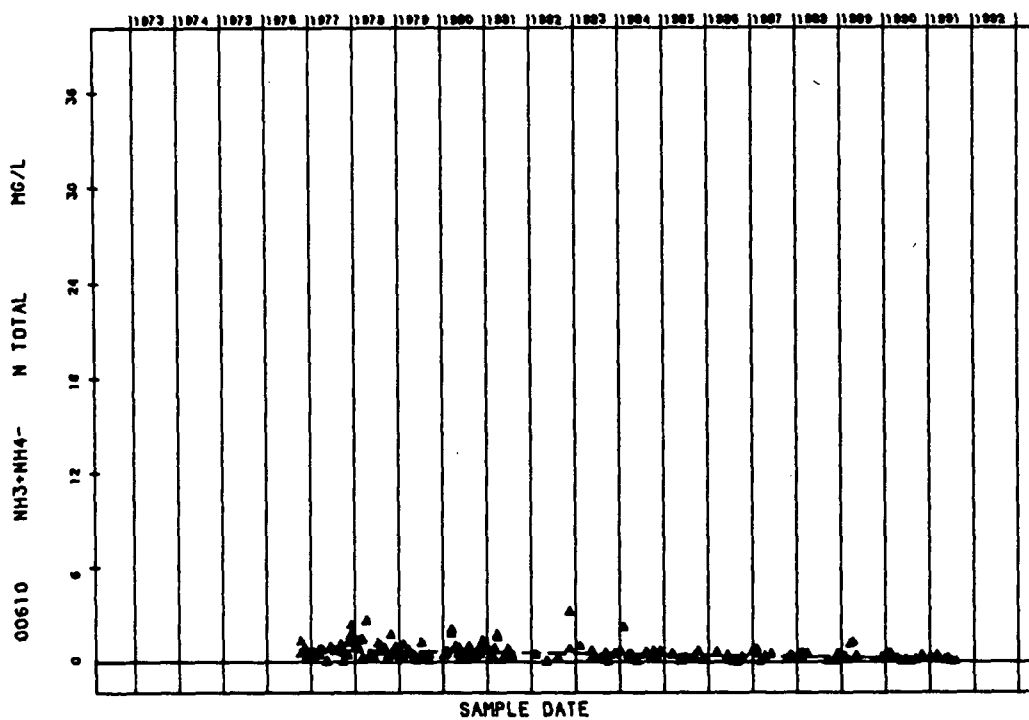
HOUSTON SHIP CHANNEL AT SJ MONUMENT



AMMONIA-NITROGEN

10050200

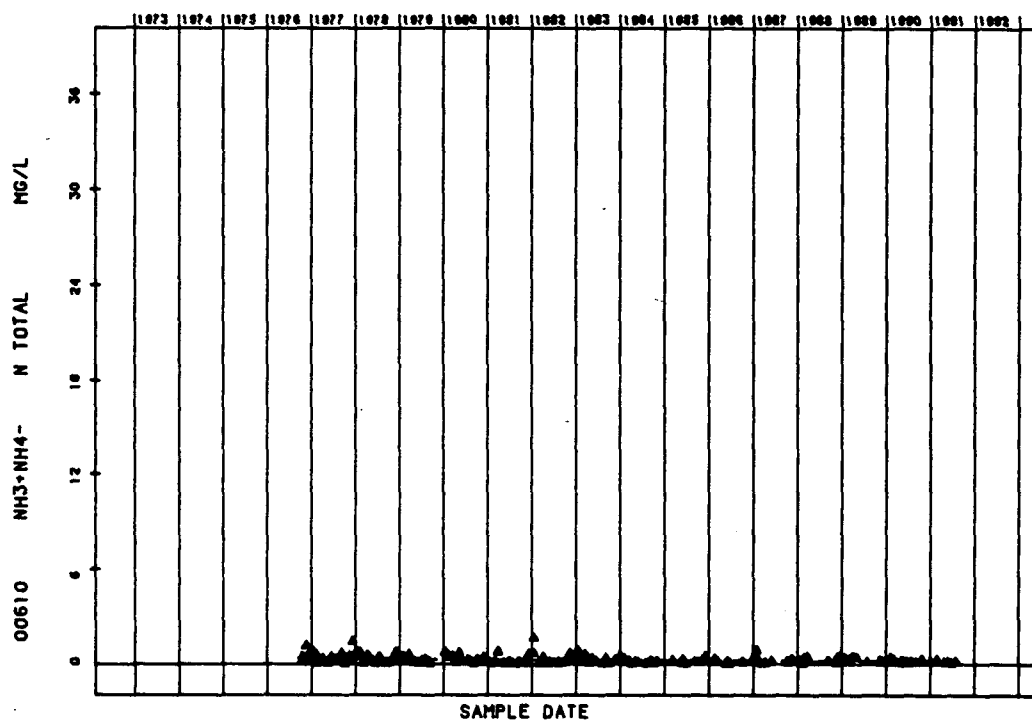
HOUSTON SHIP CHANNEL AT CM 120



AMMONIA-NITROGEN

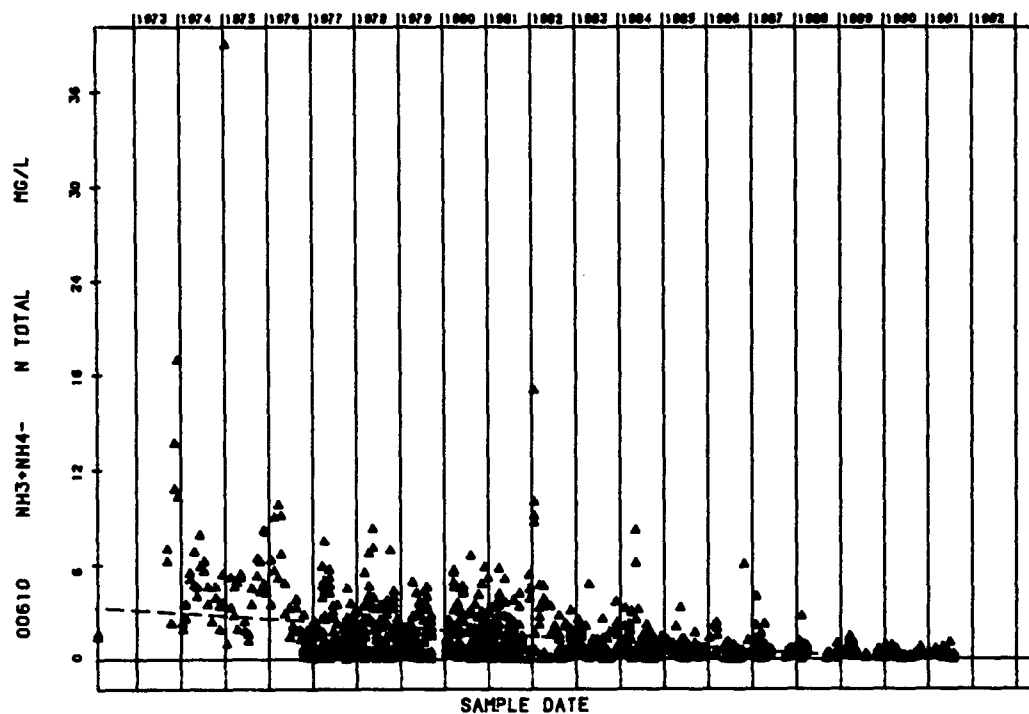
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HOUSTON SHIP CHANNEL AT MORGANS POINT



AMMONIA-NITROGEN

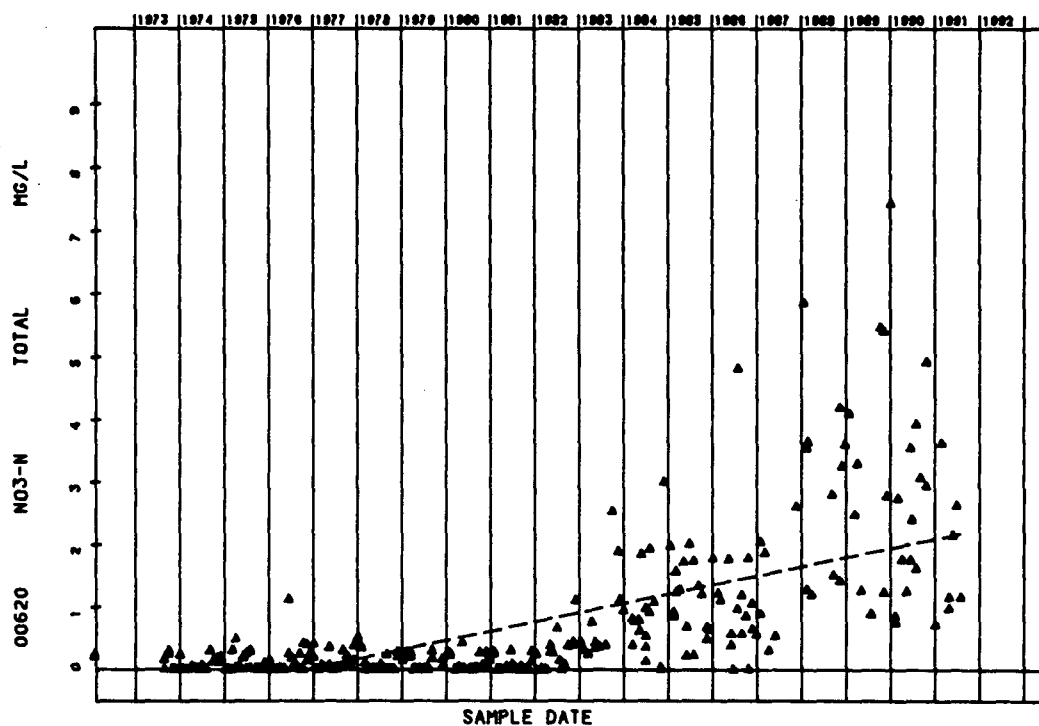
HOUSTON SHIP CHANNEL - OVERALL



NITRATE

10070800

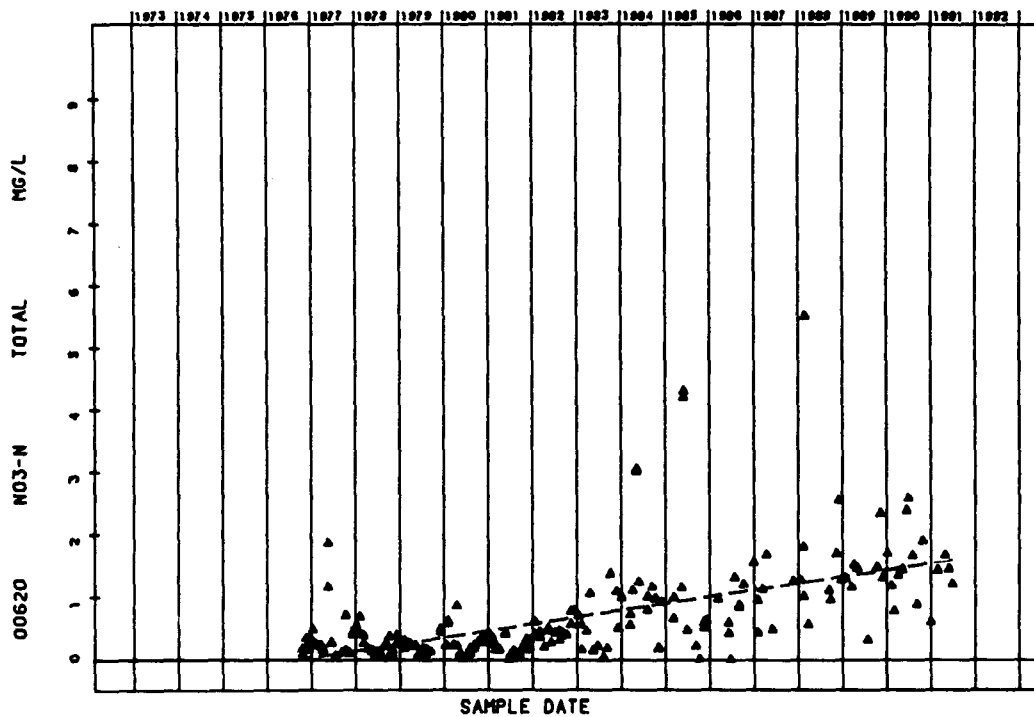
HOUSTON SHIP CHANNEL AT TURNING BASIN



NITRATE

10060200

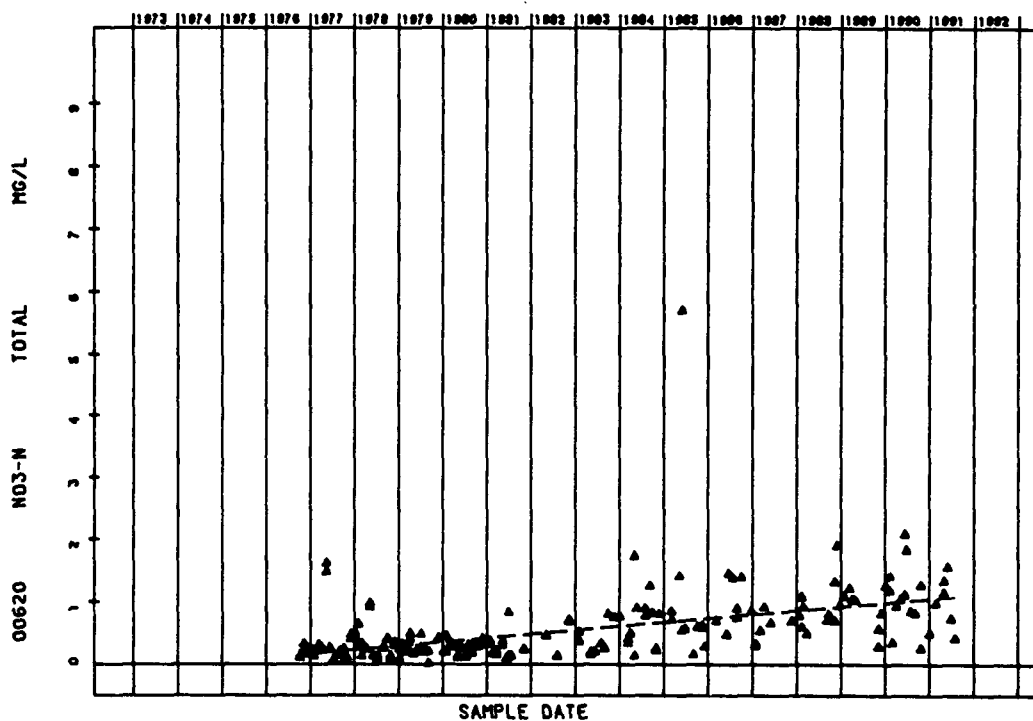
HOUSTON SHIP CHANNEL AT GREENS BAYOU



NITRATE

10060100

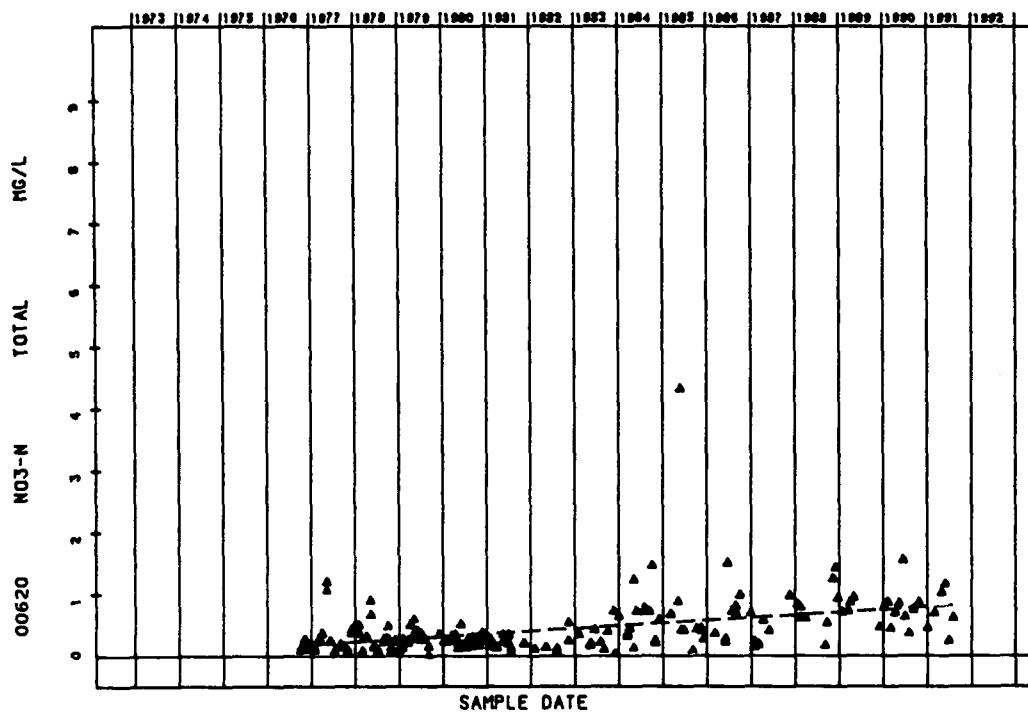
HOUSTON SHIP CHANNEL AT SJ MONUMENT



NITRATE

10050200

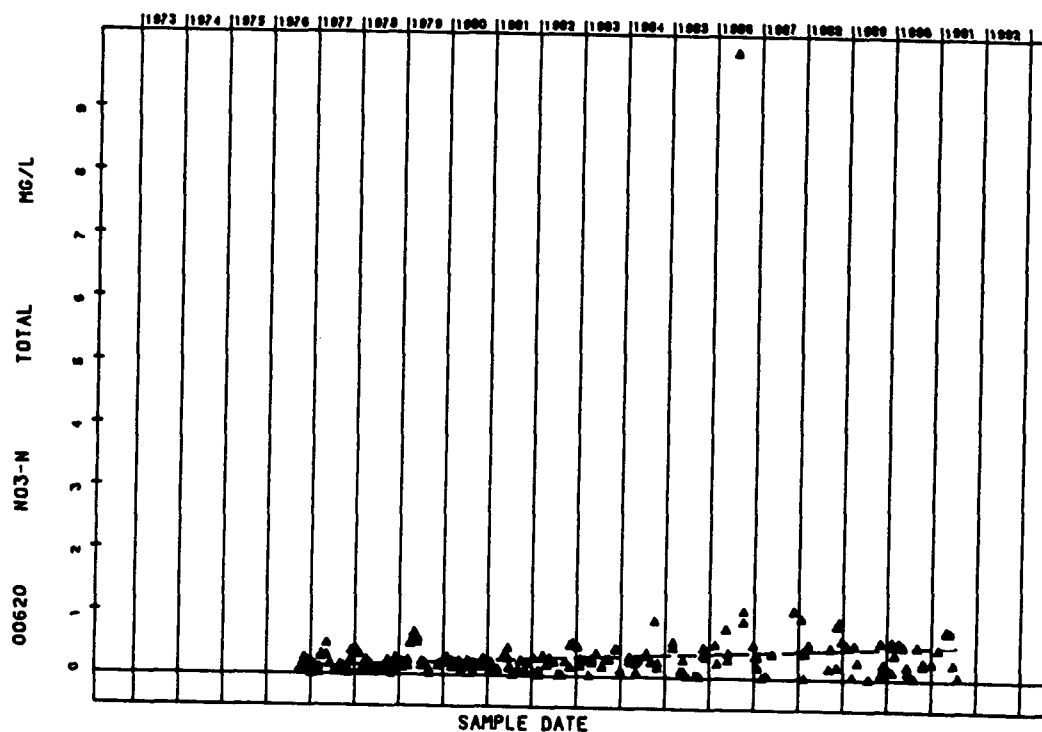
HOUSTON SHIP CHANNEL AT CM 120



NITRATE

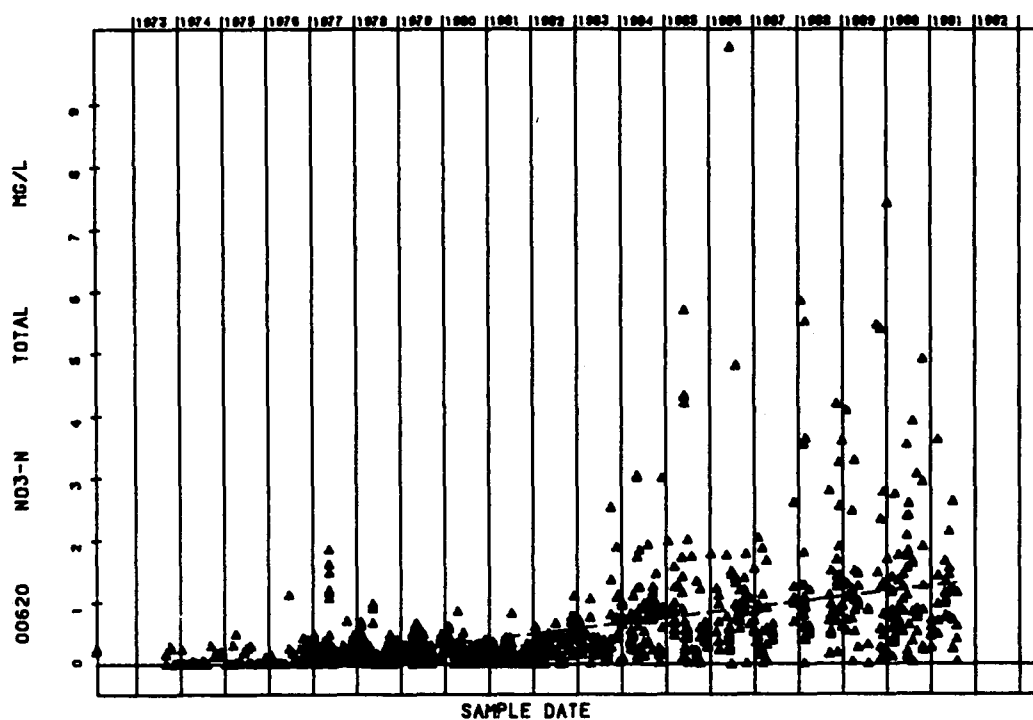
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HOUSTON SHIP CHANNEL AT MORGANS POINT



NITRATE

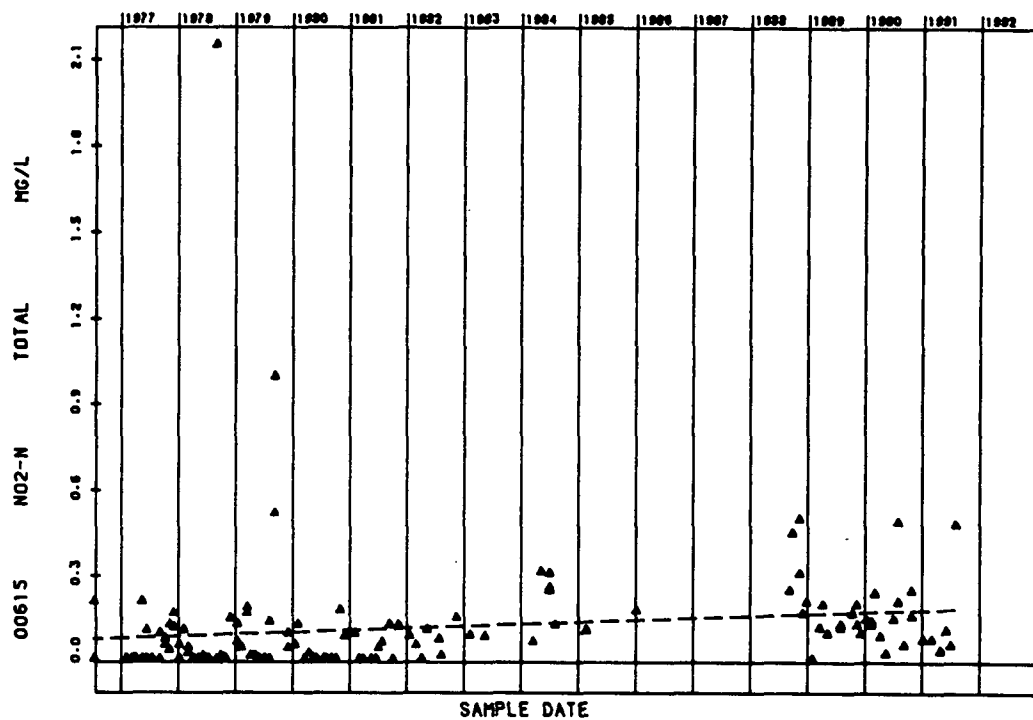
HOUSTON SHIP CHANNEL - OVERALL



NITRITE

10070800

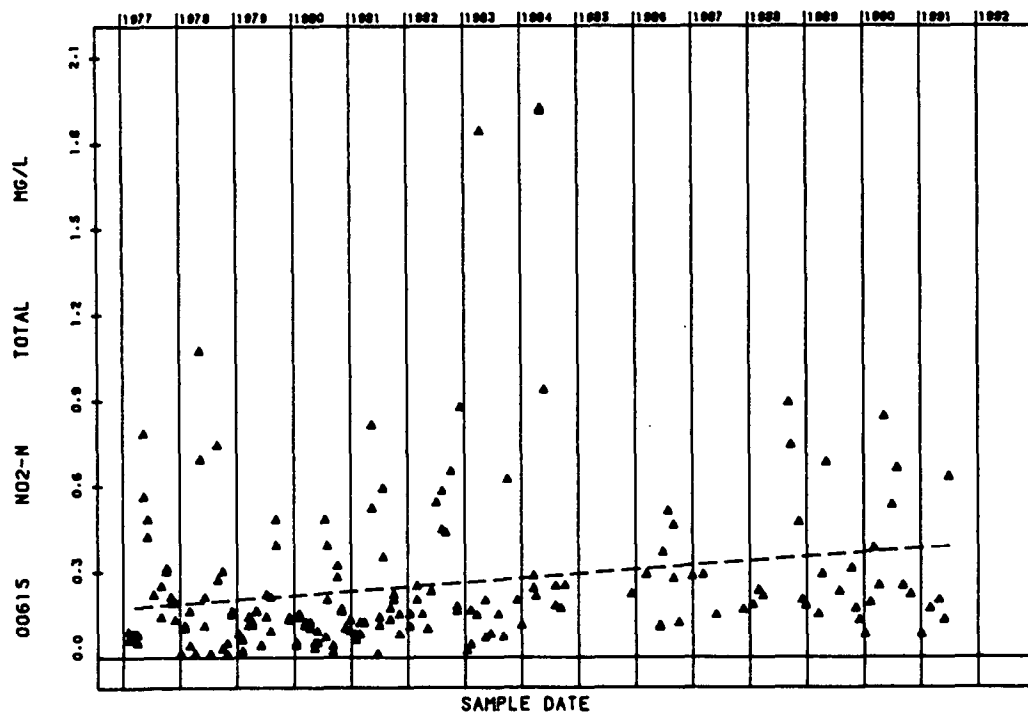
HOUSTON SHIP CHANNEL AT TURNING BASIN



NITRITE

10060200

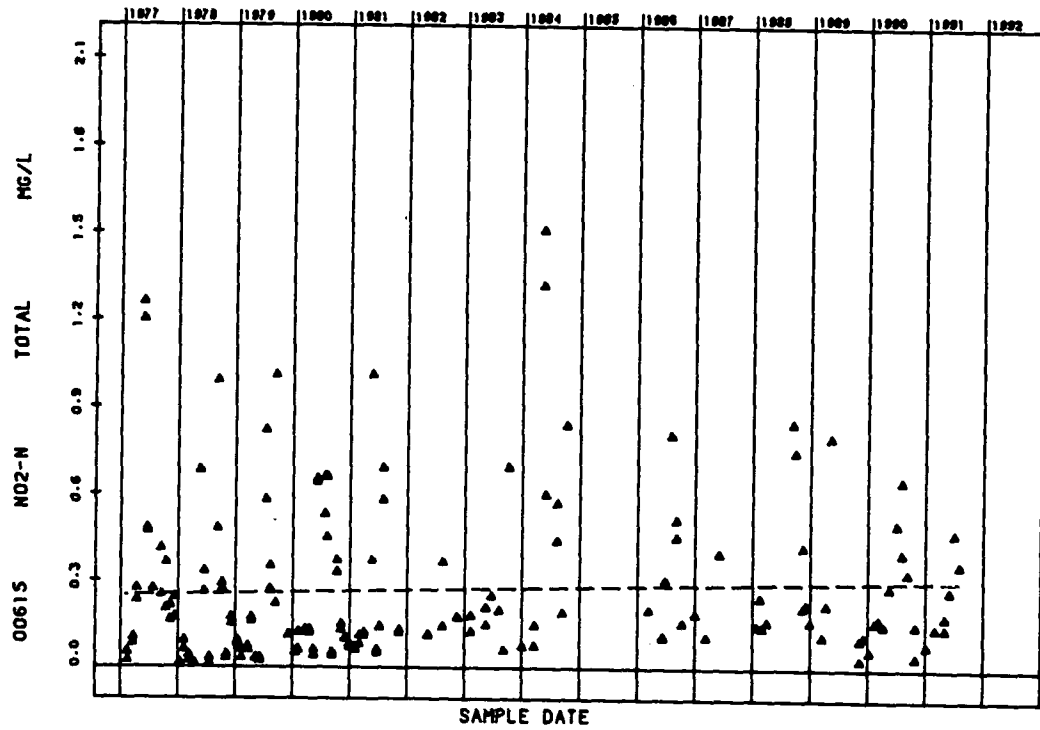
HOUSTON SHIP CHANNEL AT GREENS BAYOU



NITRITE

10060100

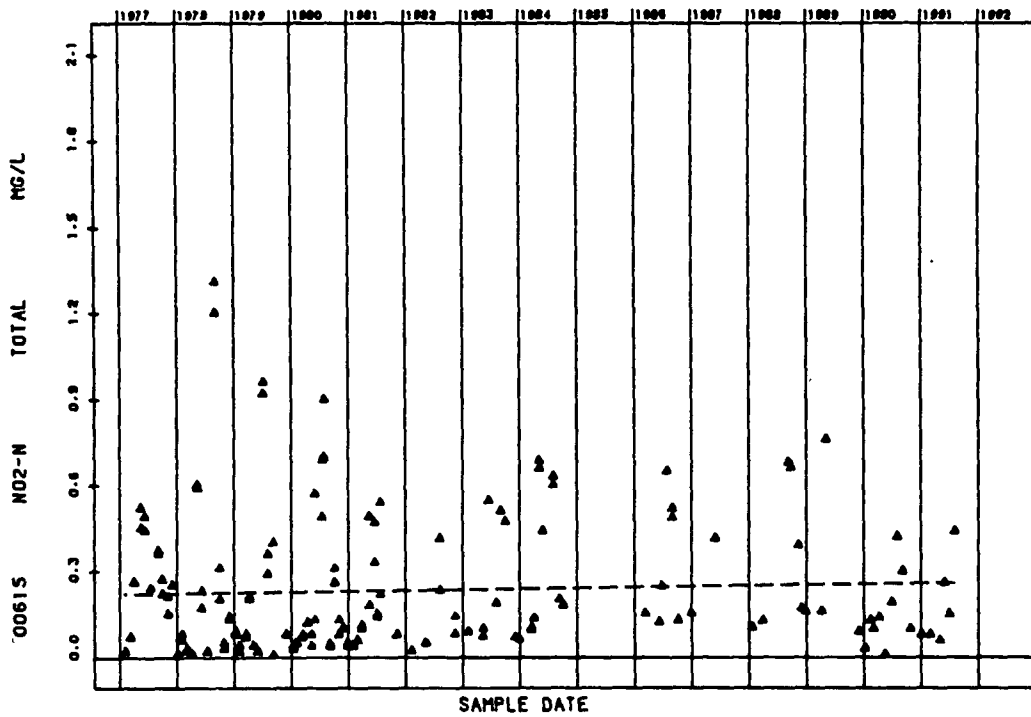
HOUSTON SHIP CHANNEL AT SJ MONUMENT



NITRITE

10050200

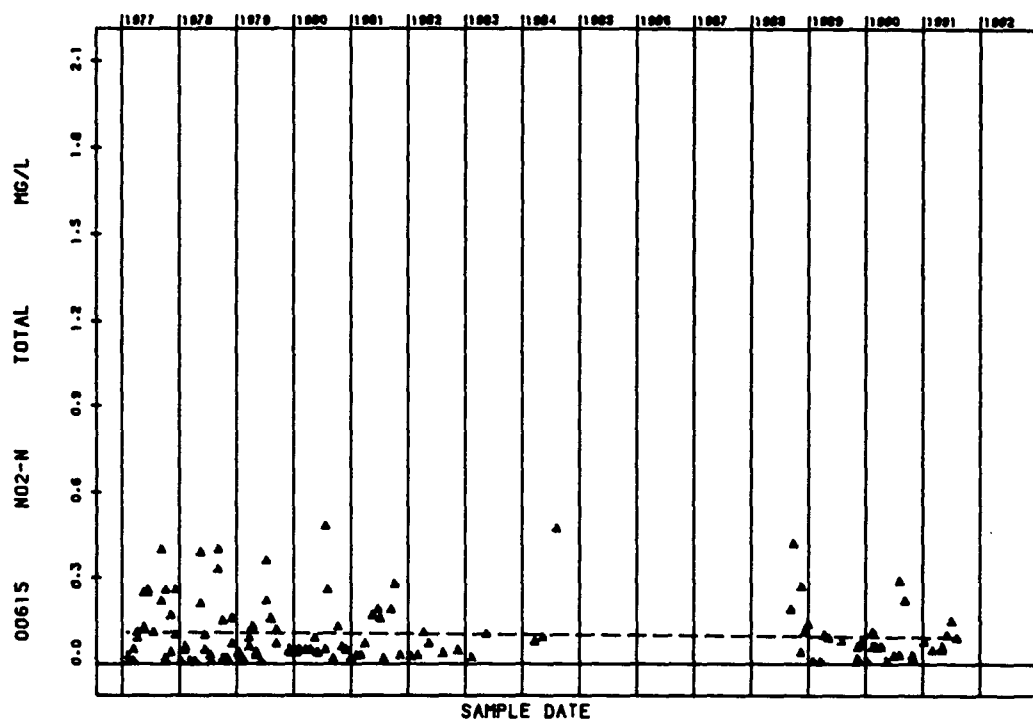
HOUSTON SHIP CHANNEL AT CM 120



NITRITE

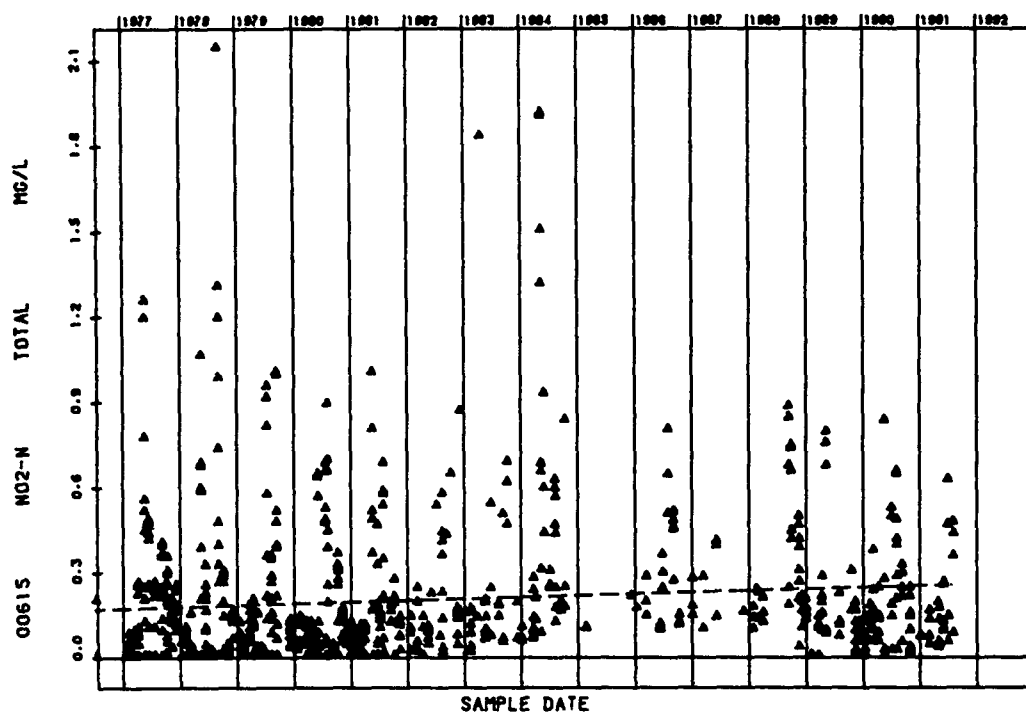
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HOUSTON SHIP CHANNEL AT MORGANS POINT



NITRITE

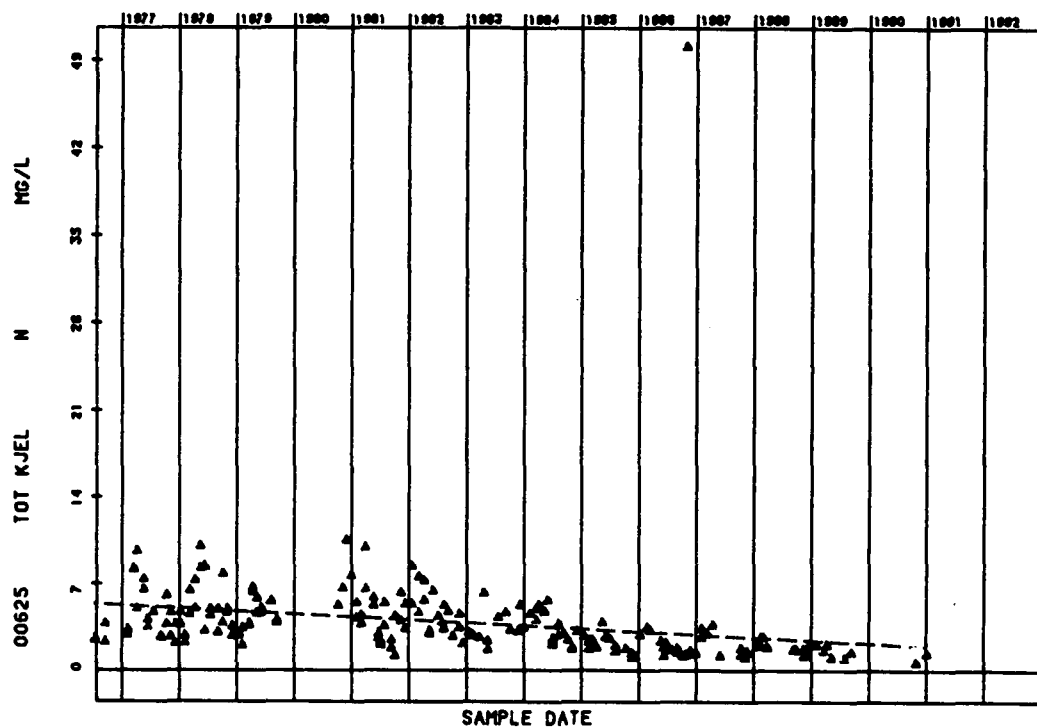
HOUSTON SHIP CHANNEL - OVERALL



TOTAL KELDAHL NITROGEN

10070800

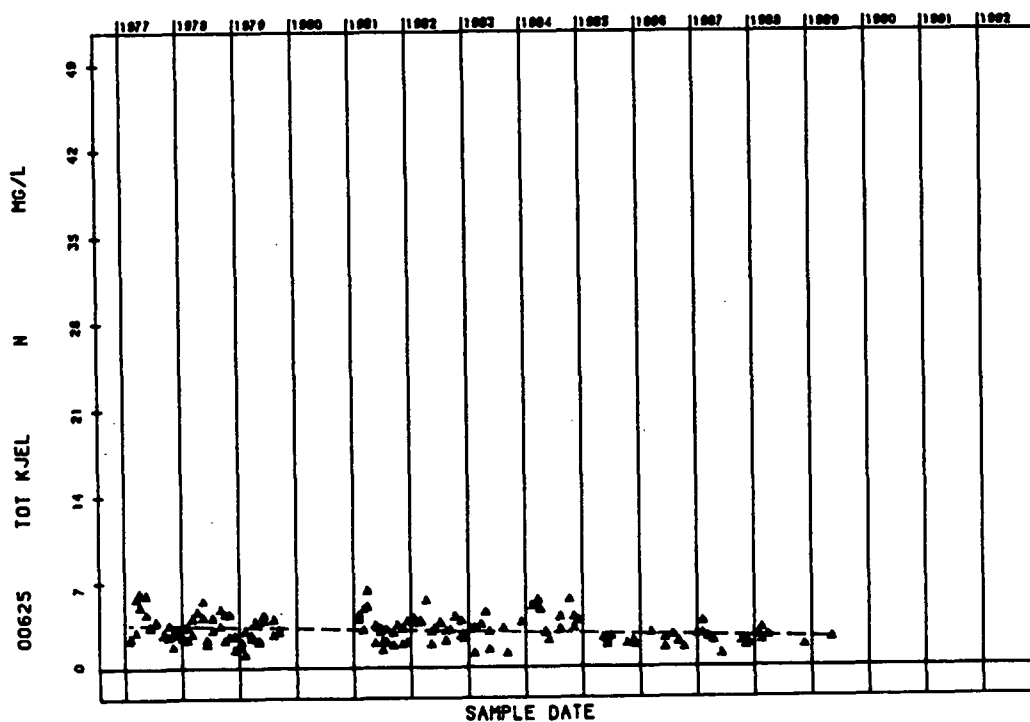
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL KELDAHL NITROGEN

10060200

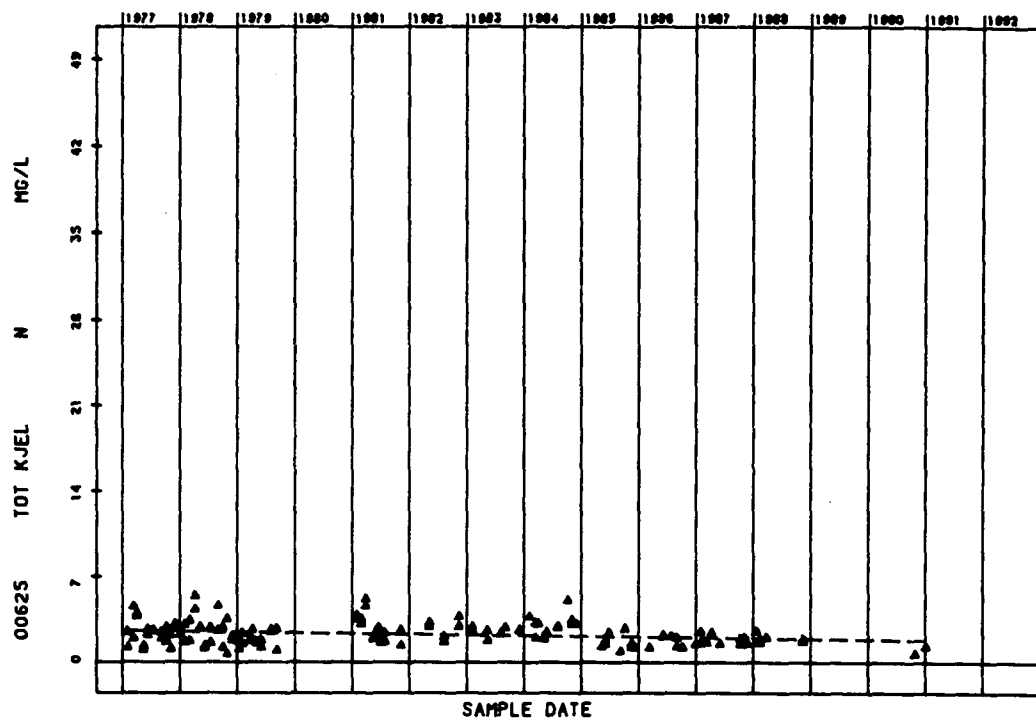
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL KELDAHL NITROGEN

10060100

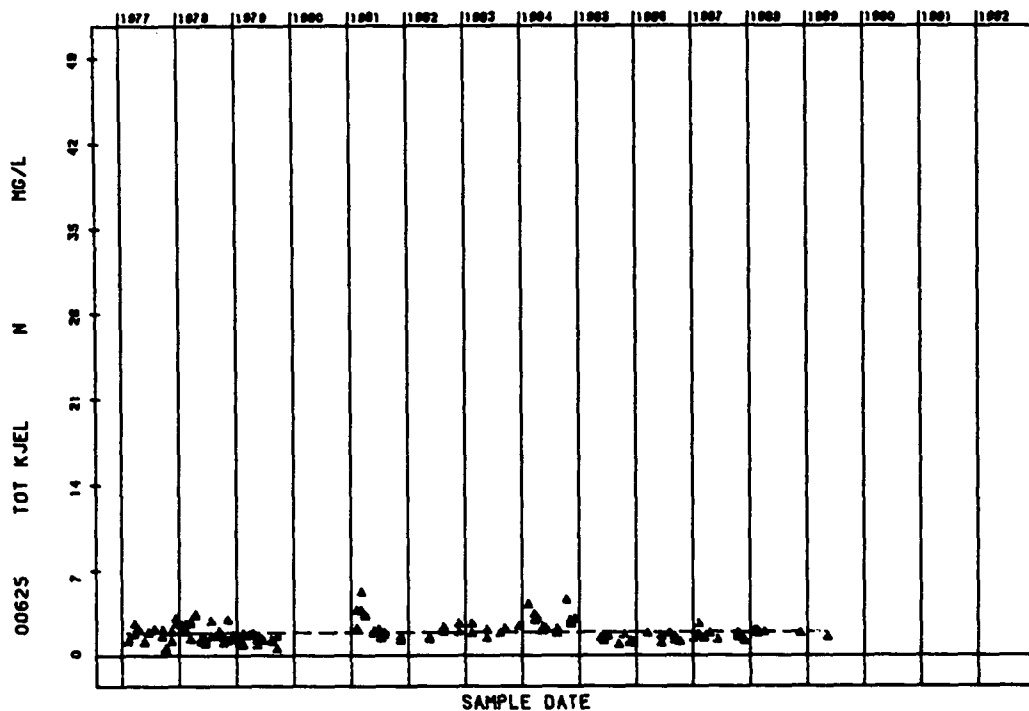
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL KELDAHL NITROGEN

10050200

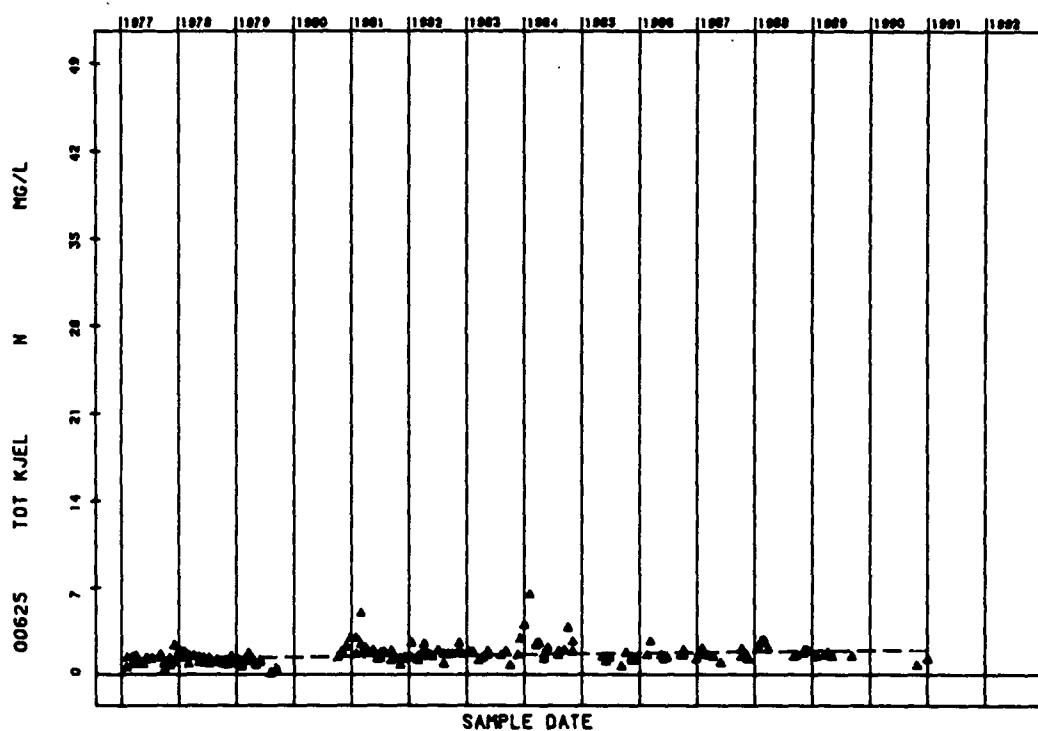
HOUSTON SHIP CHANNEL AT CM 120



TOTAL KELDAHL NITROGEN

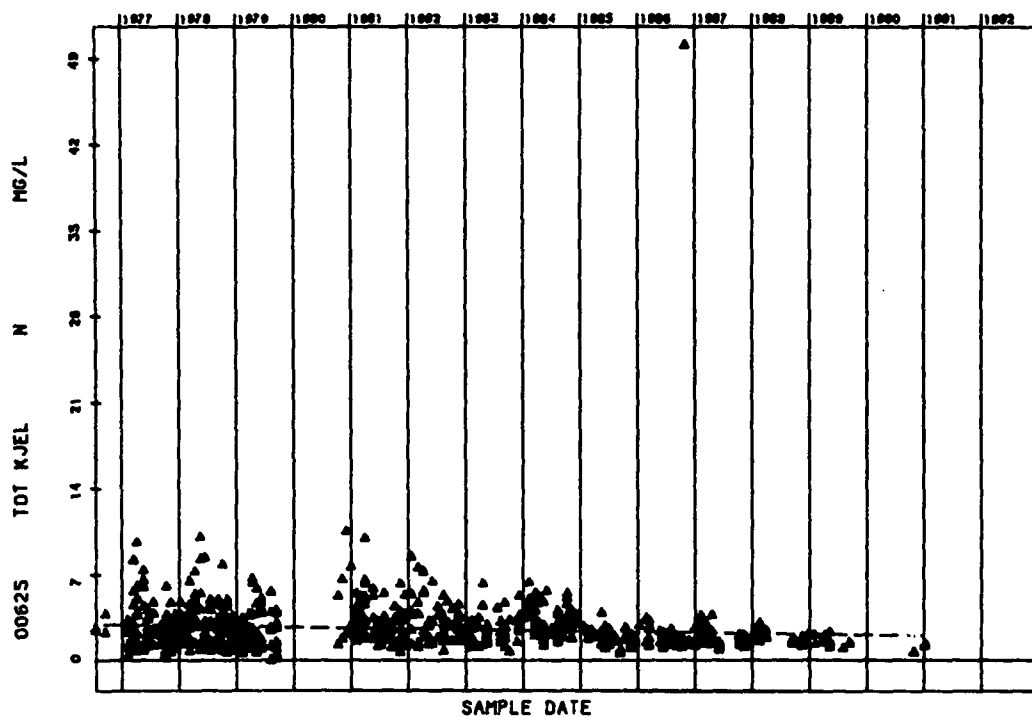
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL KELDAHL NITROGEN

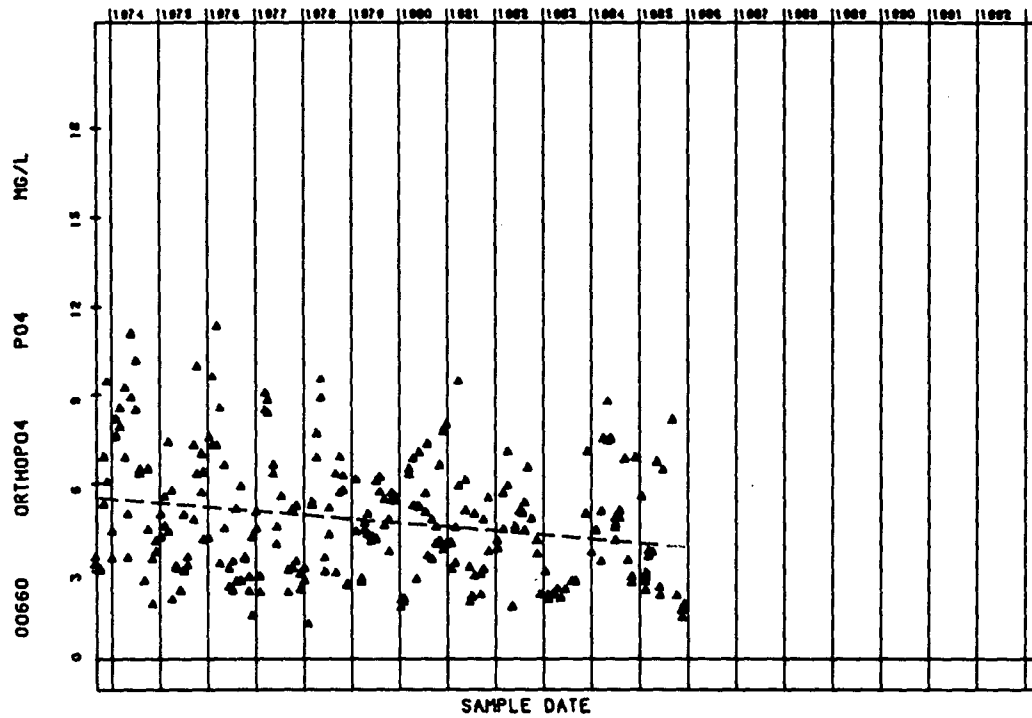
HOUSTON SHIP CHANNEL - OVERALL



ORTHOPHOSPHATE

10070800

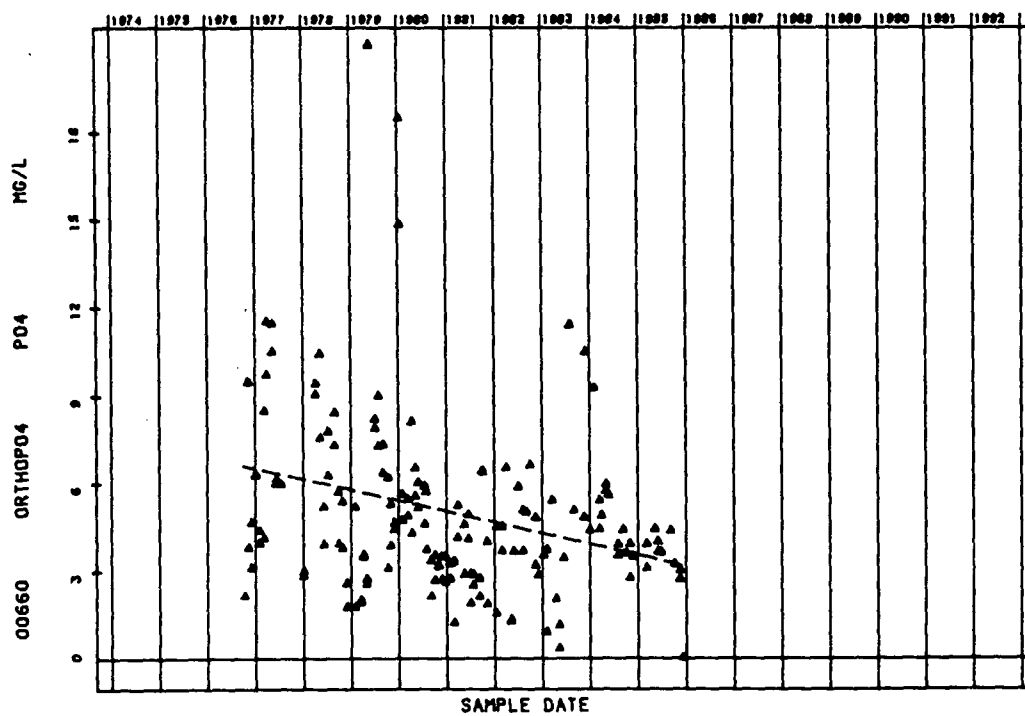
HOUSTON SHIP CHANNEL AT TURNING BASIN



ORTHOPHOSPHATE

10060200

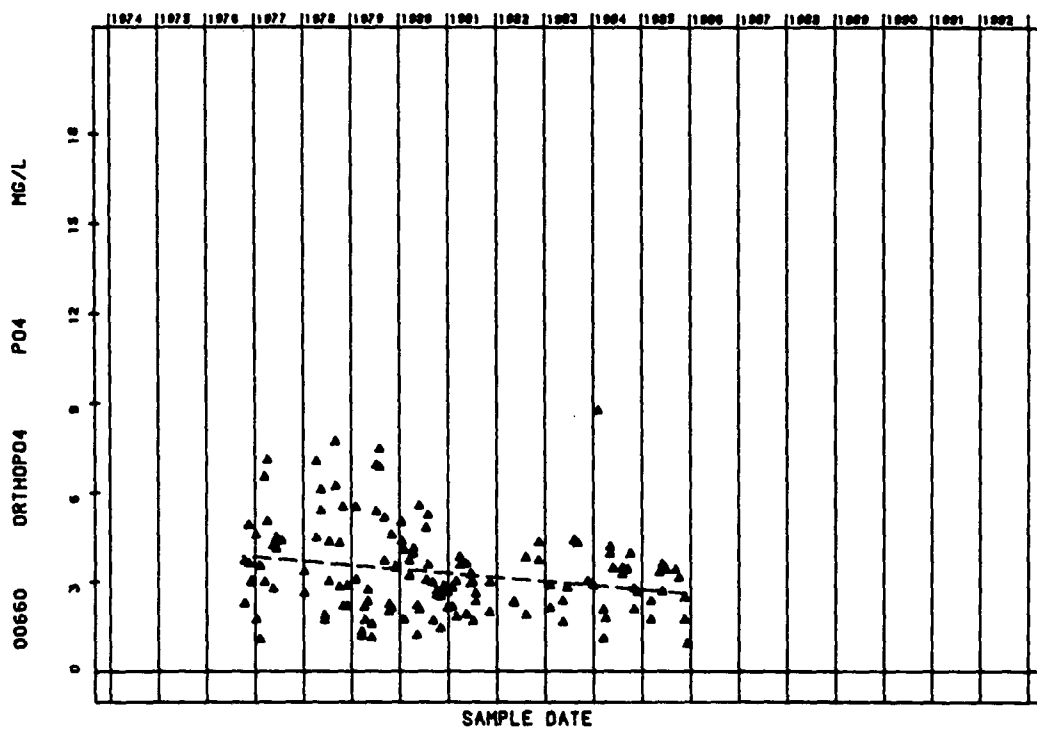
HOUSTON SHIP CHANNEL AT GREENS BAYOU



ORTHOPHOSPHATE

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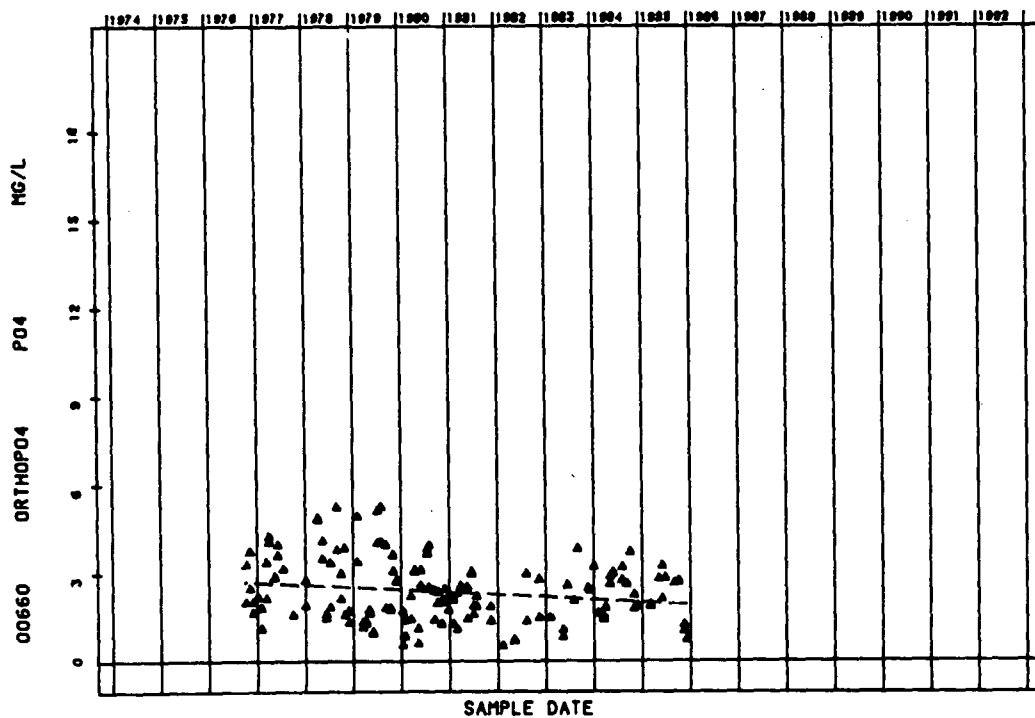
HOUSTON SHIP CHANNEL AT SJ MONUMENT



ORTHOPHOSPHATE

10050200

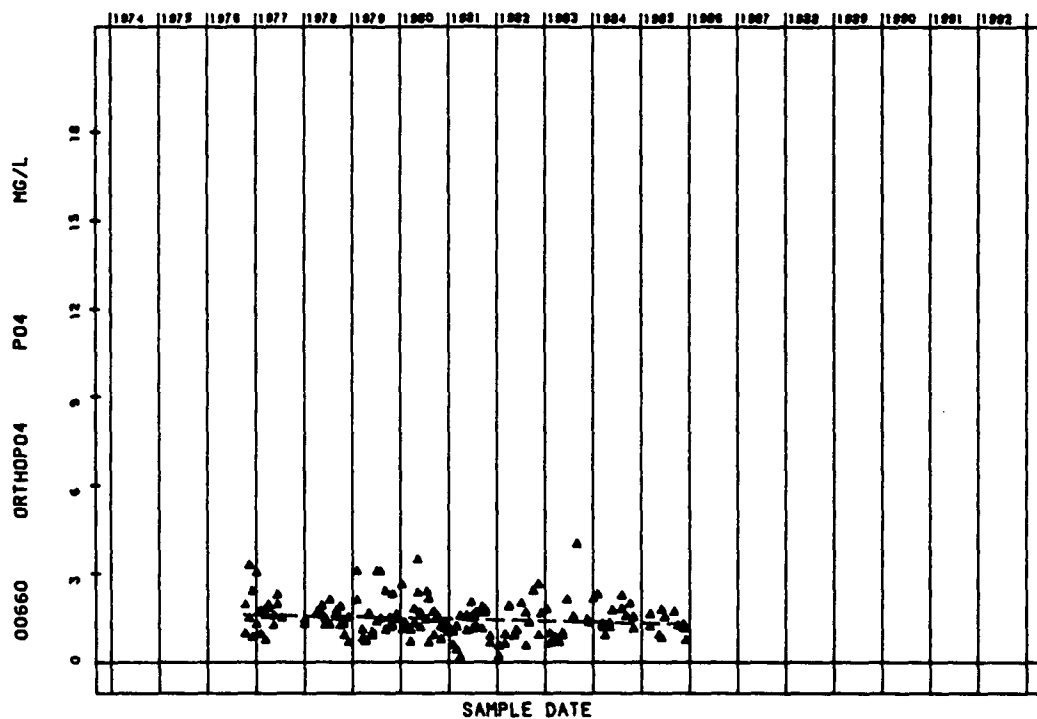
HOUSTON SHIP CHANNEL AT CM 120



ORTHOPHOSPHATE

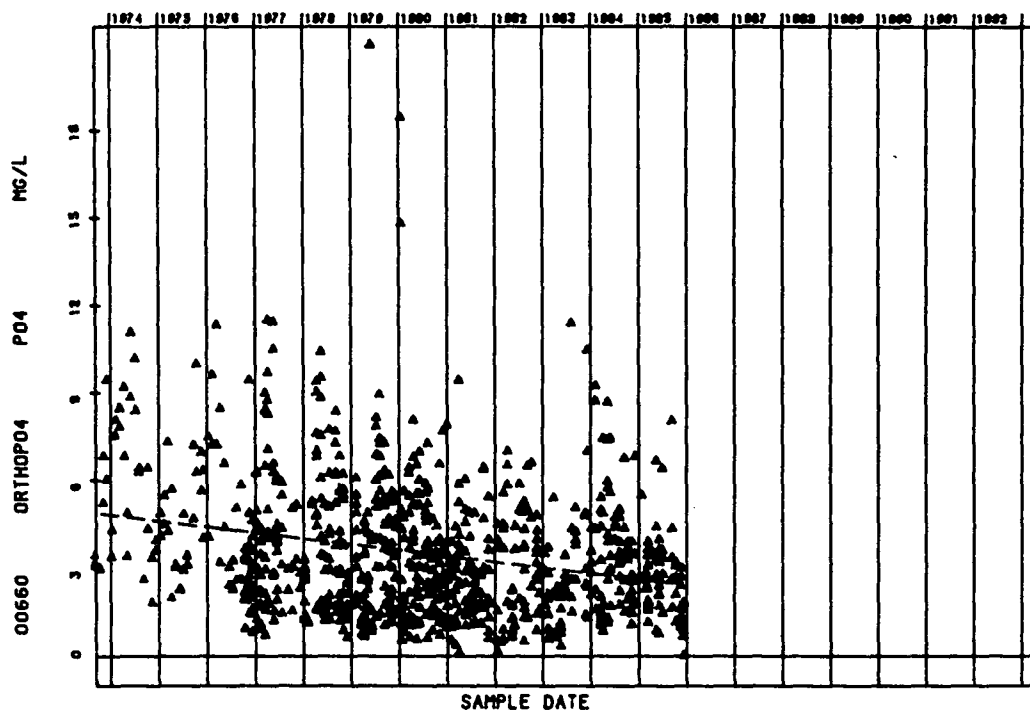
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HOUSTON SHIP CHANNEL AT MORGANS POINT



ORTHOPHOSPHATE

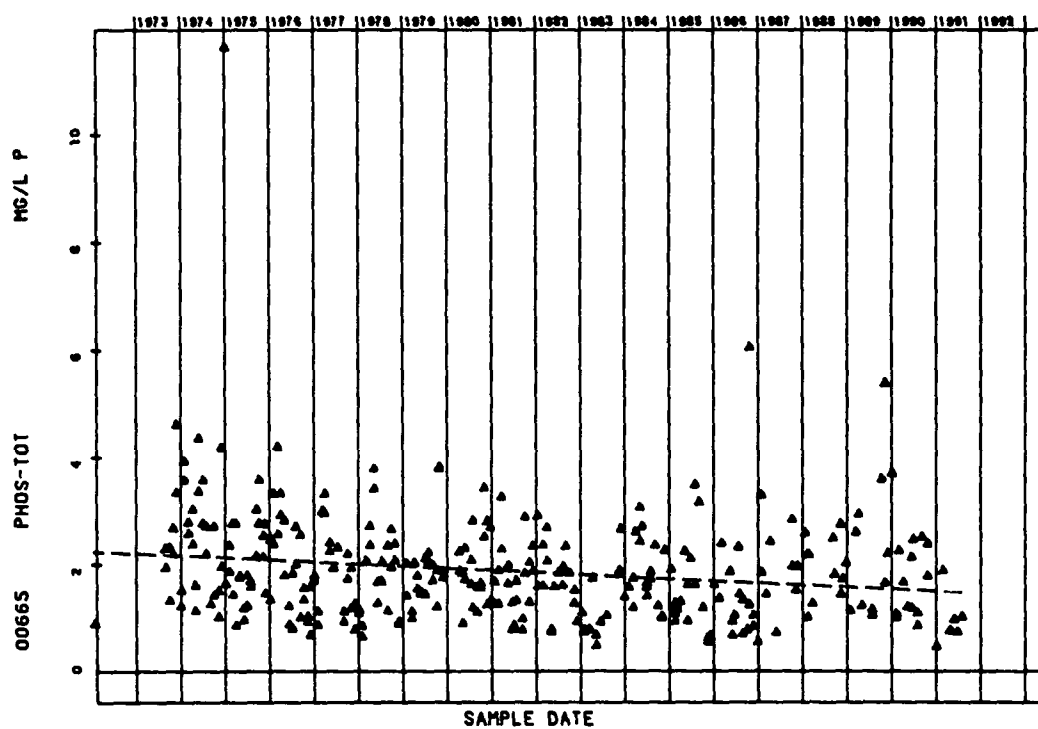
HOUSTON SHIP CHANNEL - OVERALL



TOTAL PHOSPHORUS

10070800

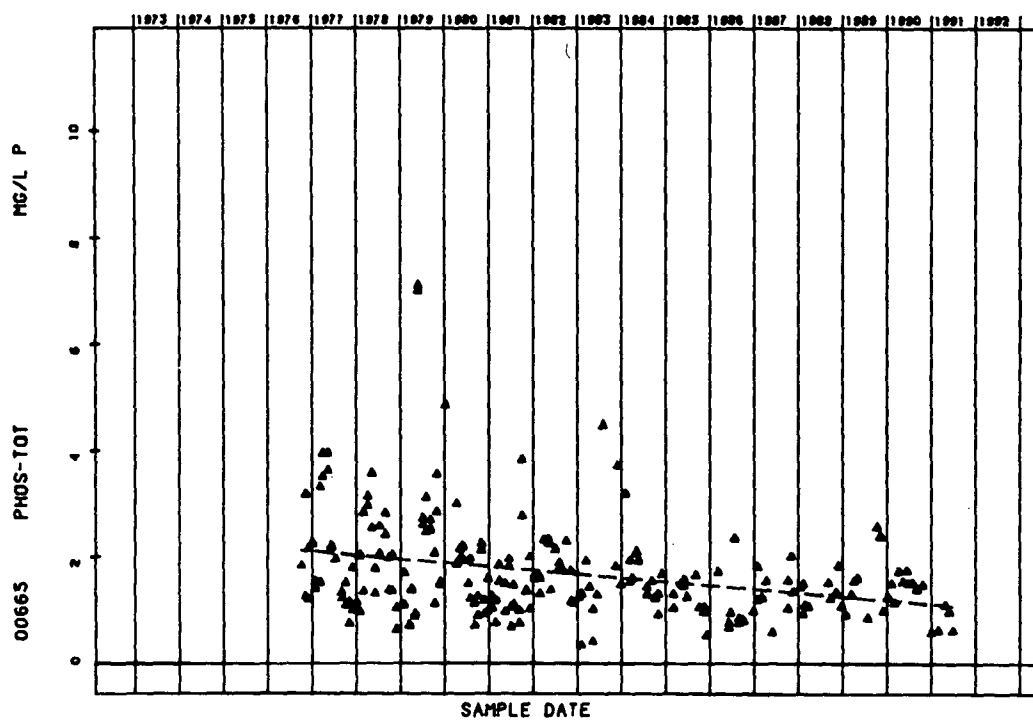
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL PHOSPHORUS

10060200

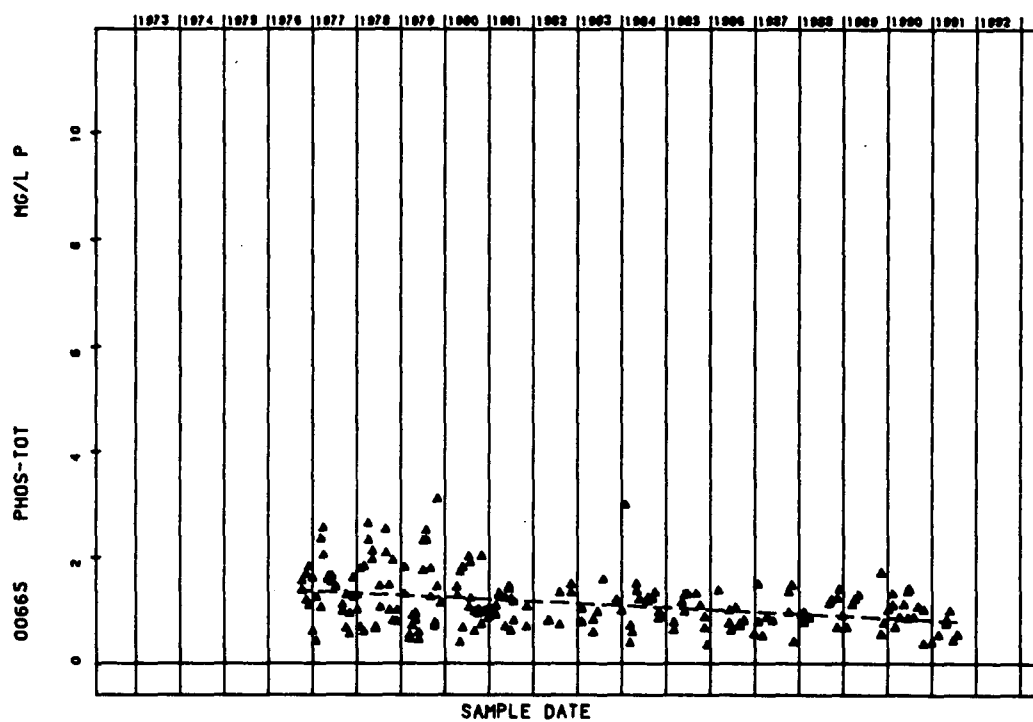
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL PHOSPHORUS

10060100

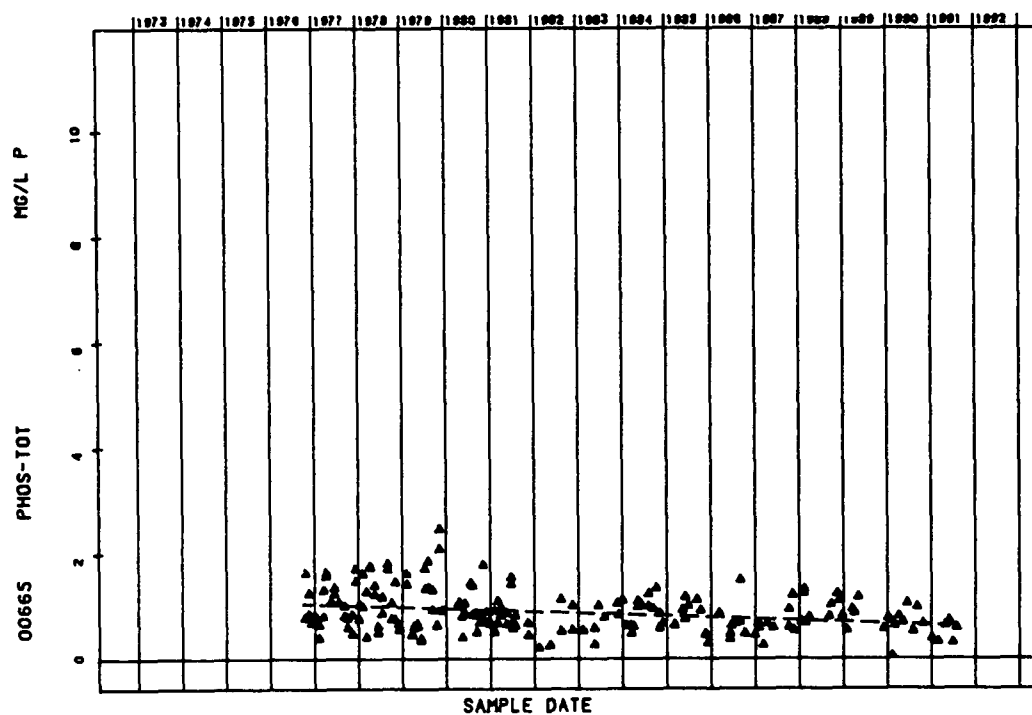
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL PHOSPHORUS

10050200

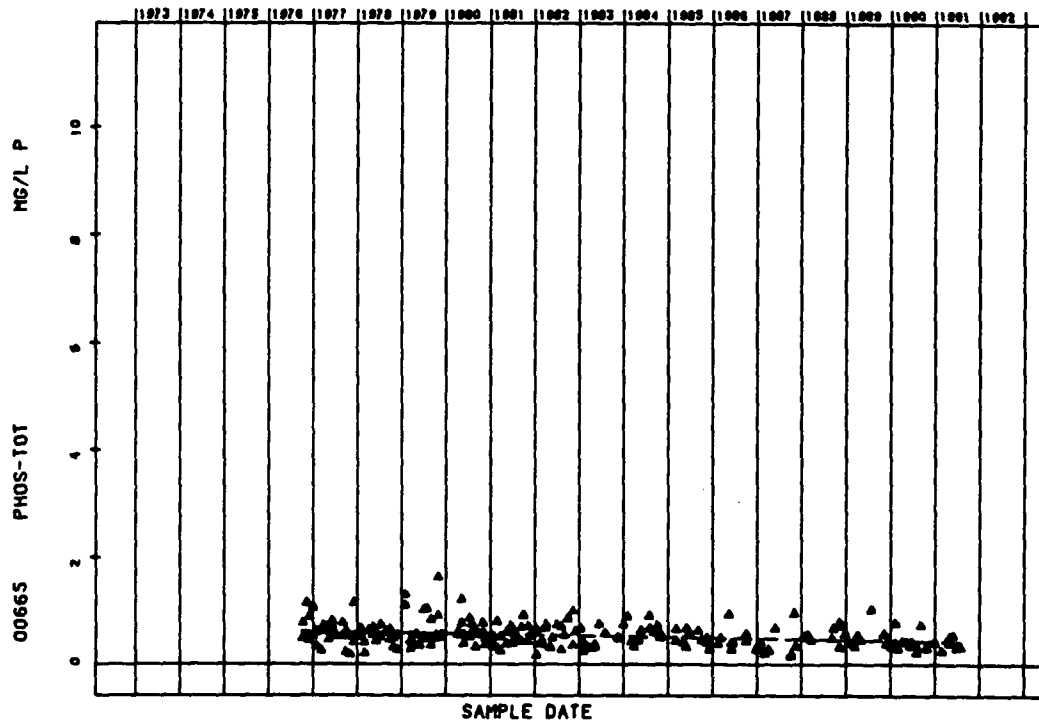
HOUSTON SHIP CHANNEL AT CM 120



TOTAL PHOSPHORUS

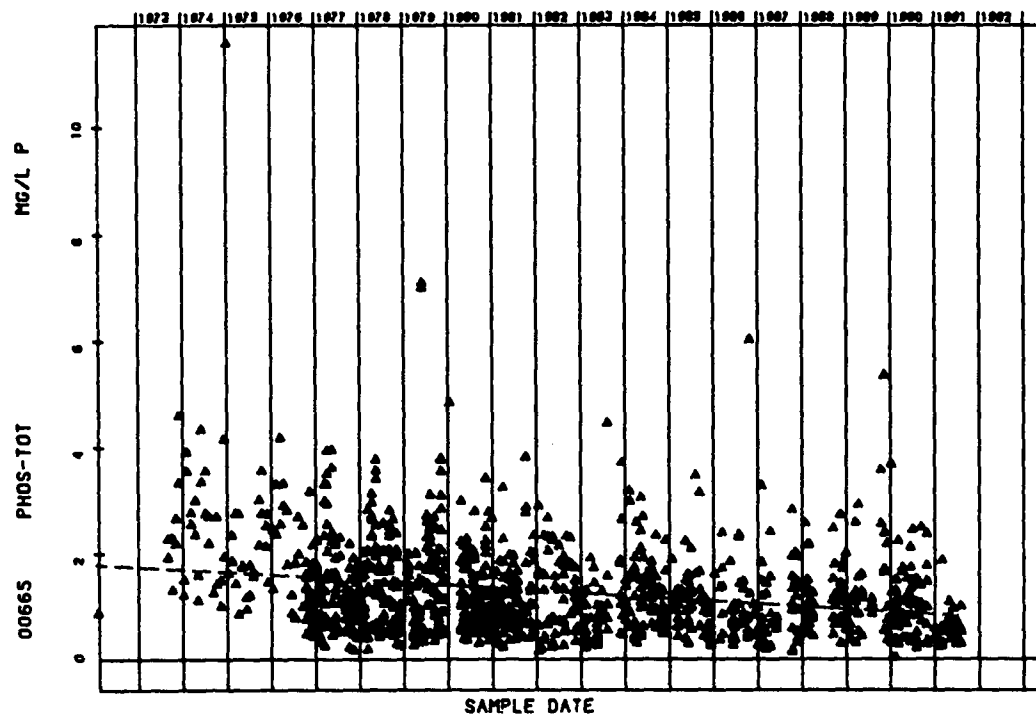
10050100

HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL PHOSPHORUS

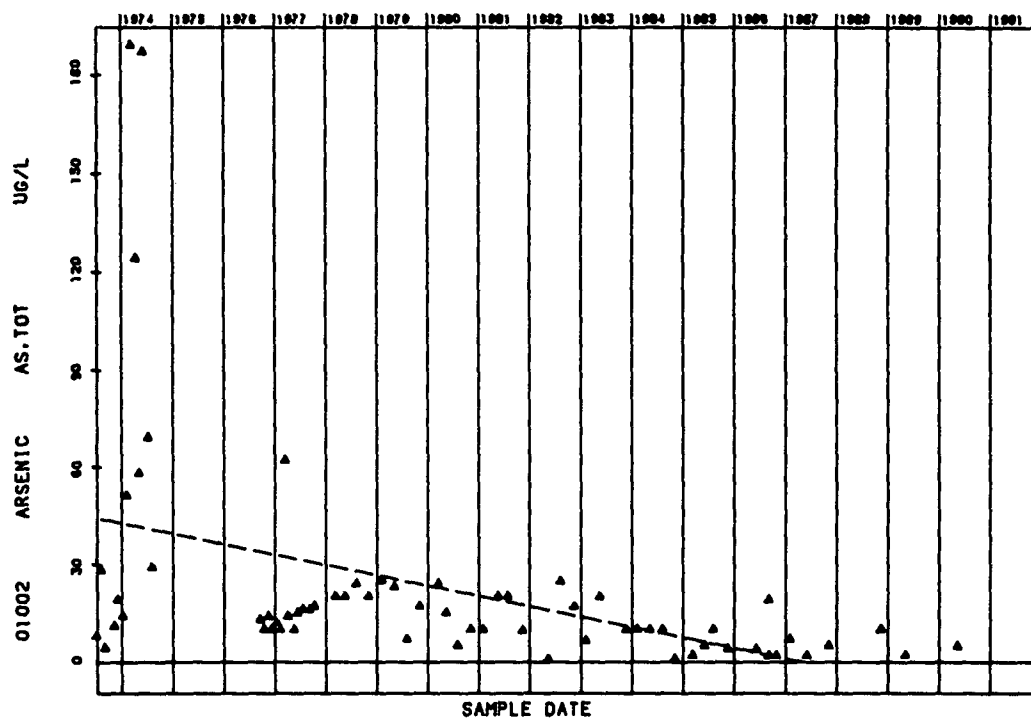
HOUSTON SHIP CHANNEL - OVERALL



TOTAL ARSENIC

10070800

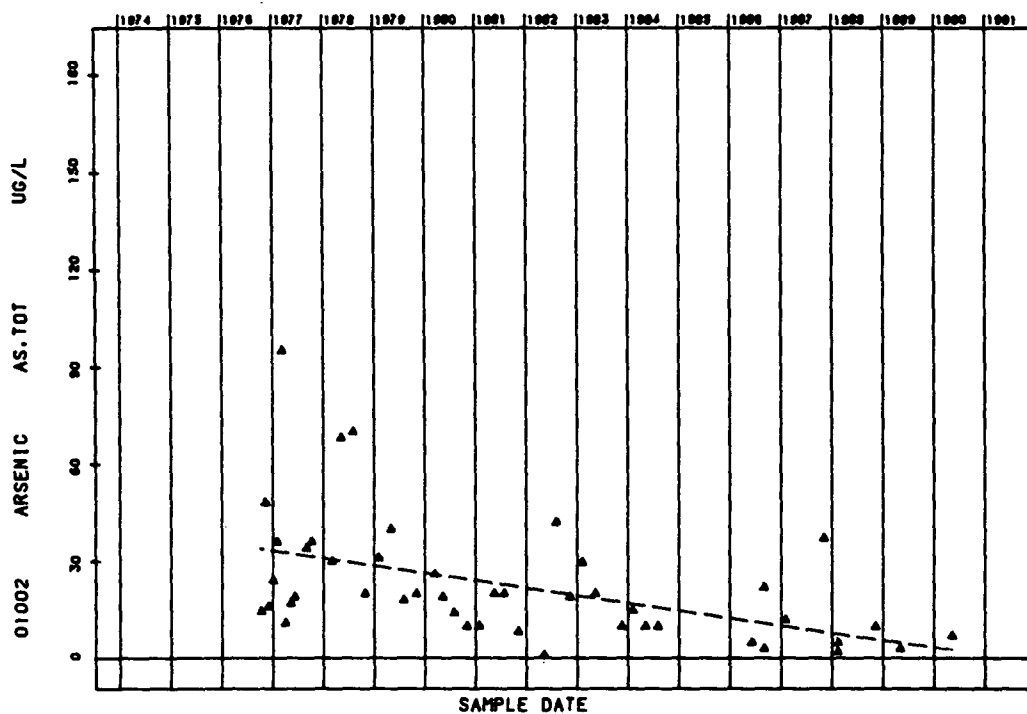
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL ARSENIC

10060200

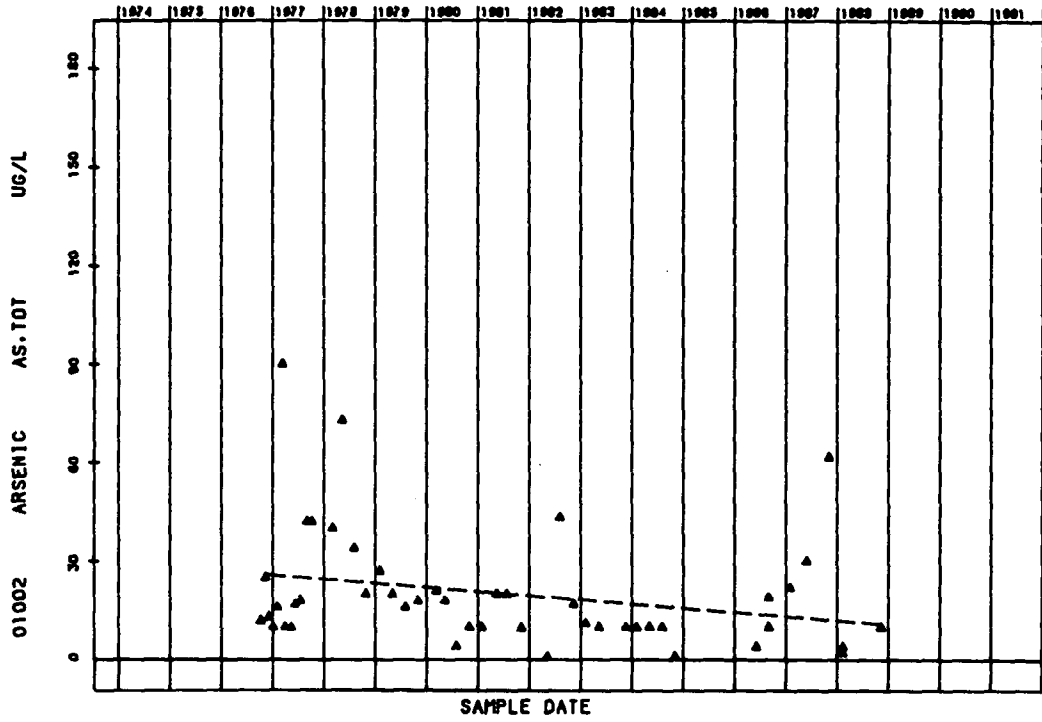
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL ARSENIC

10060100

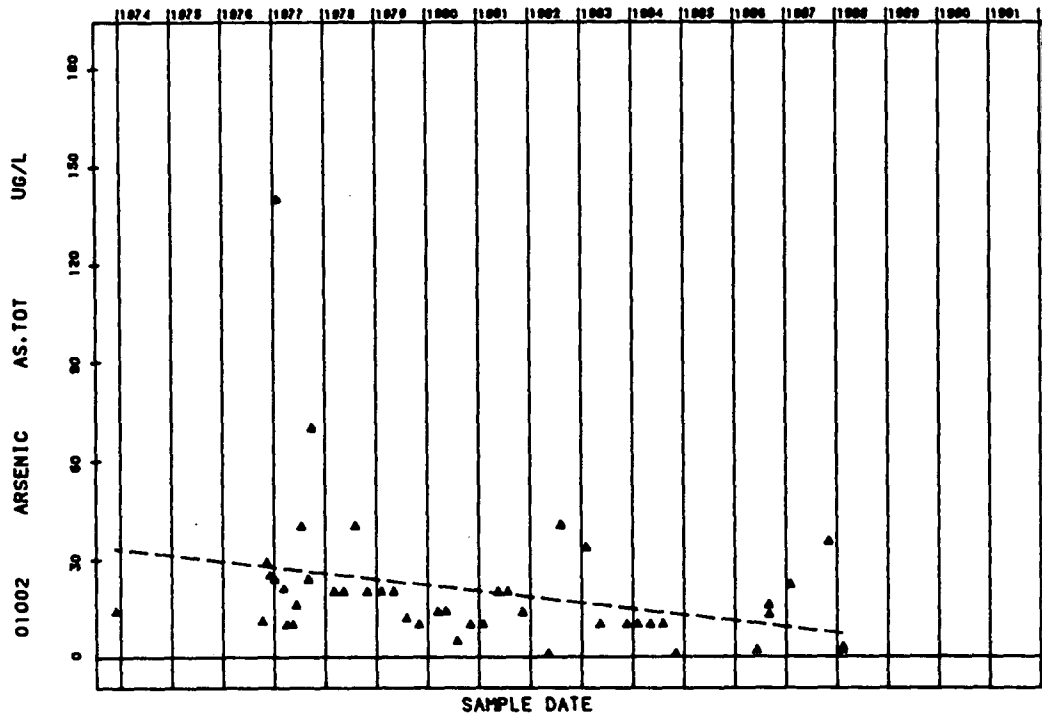
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL ARSENIC

10050200

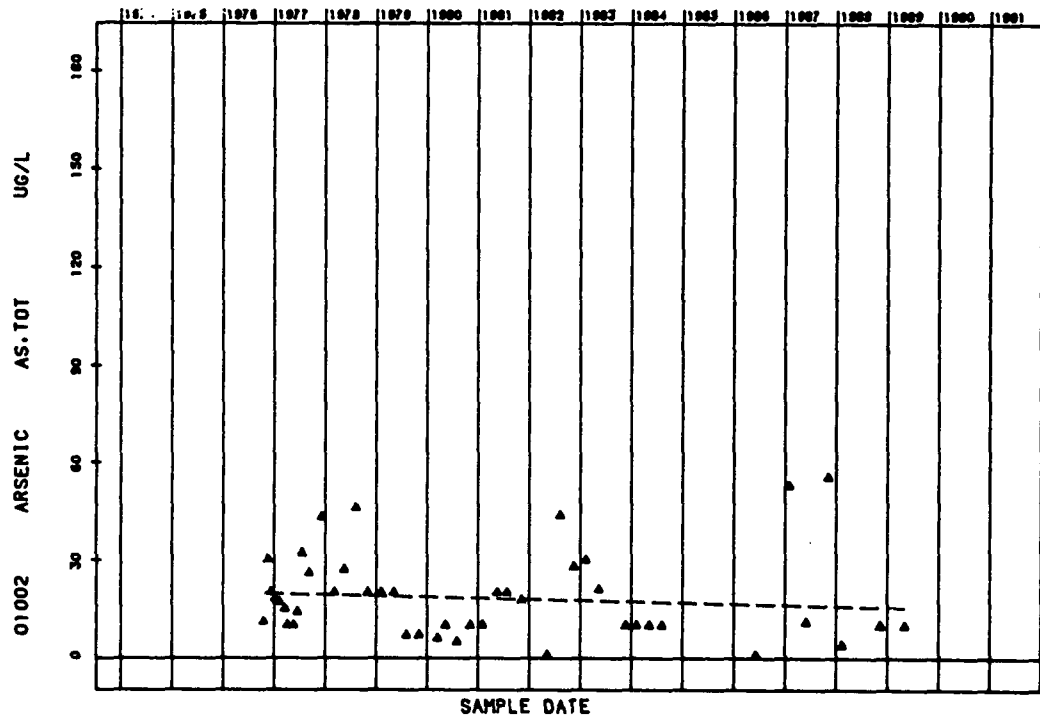
HOUSTON SHIP CHANNEL AT CM 120



TOTAL ARSENIC

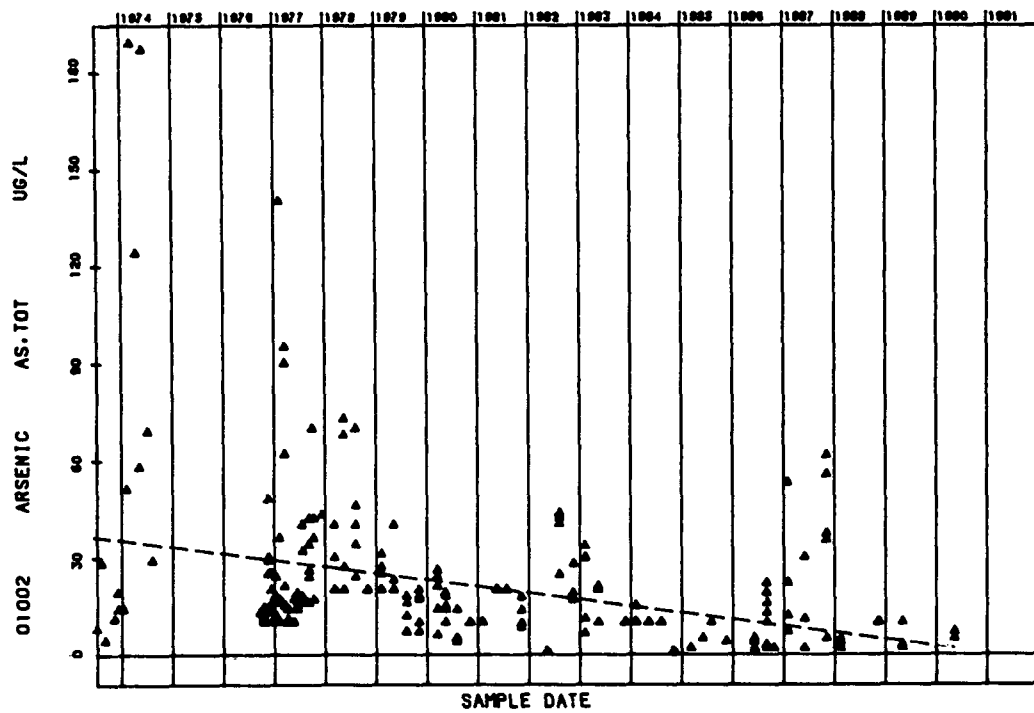
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL ARSENIC

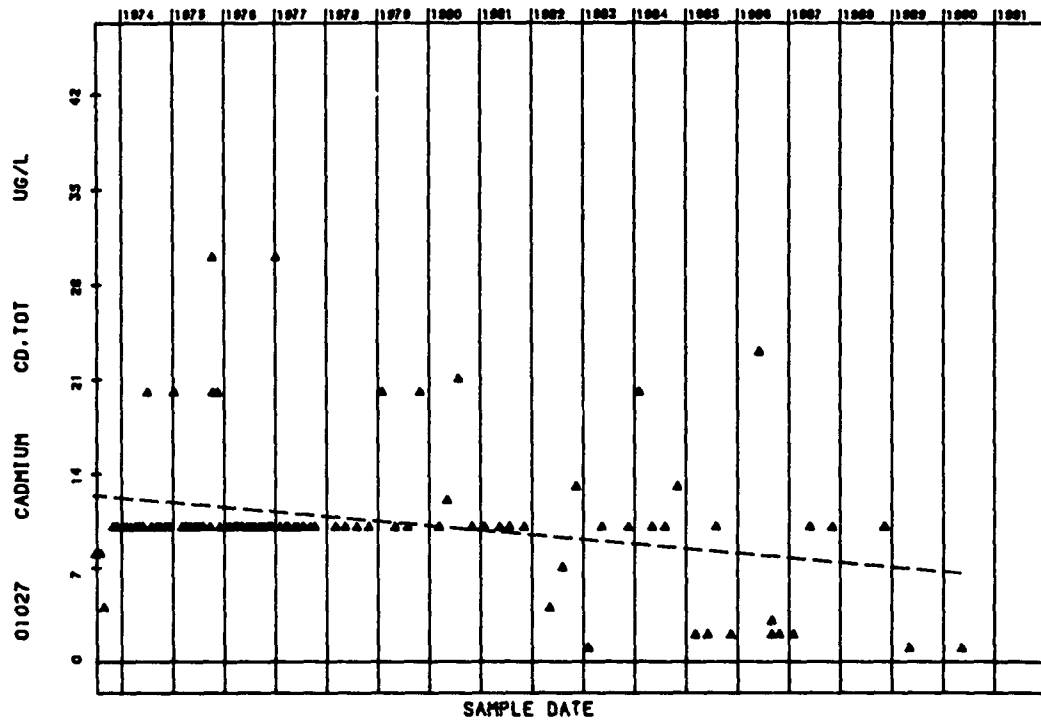
HOUSTON SHIP CHANNEL - OVERALL



TOTAL CADMIUM

10070800

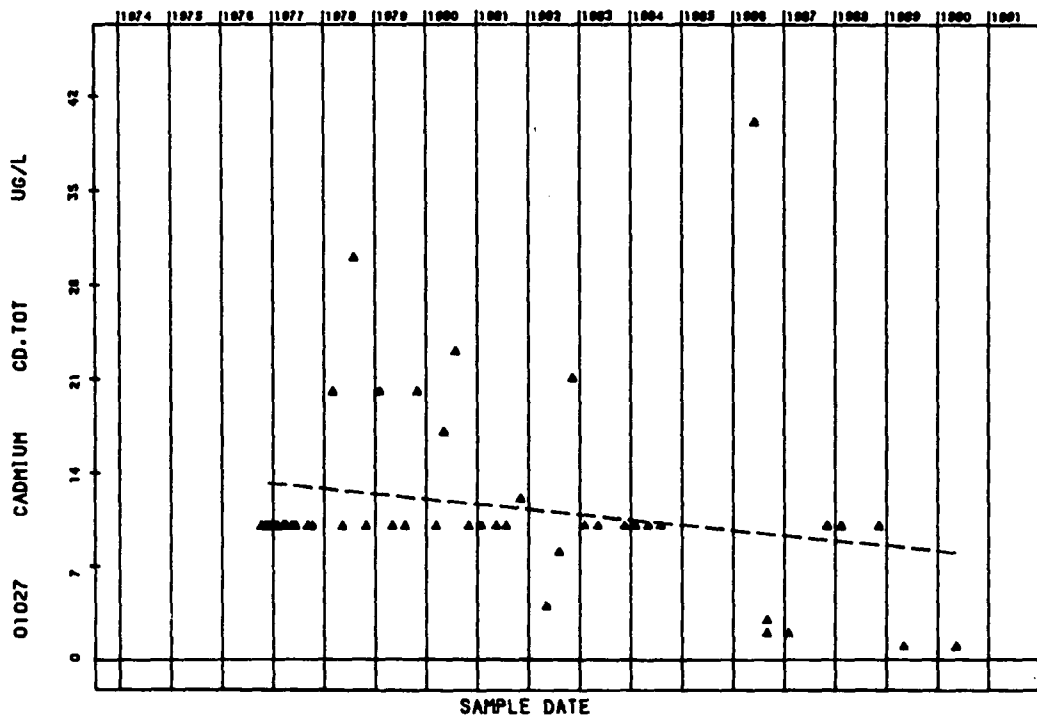
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL CADMIUM

10060200

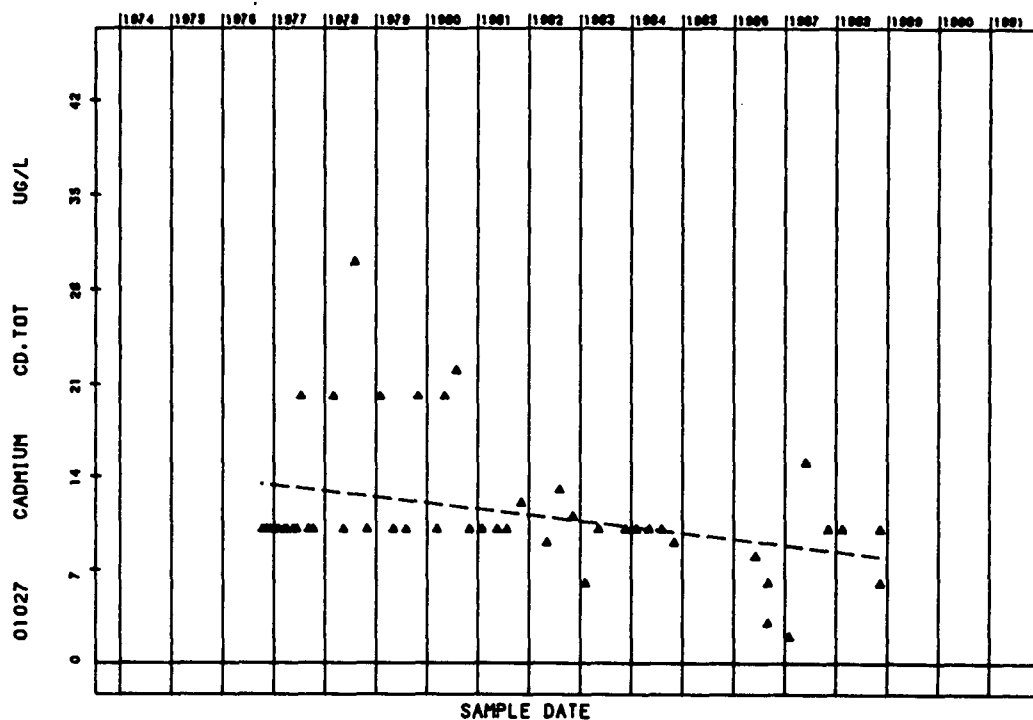
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL CADMIUM

10060100

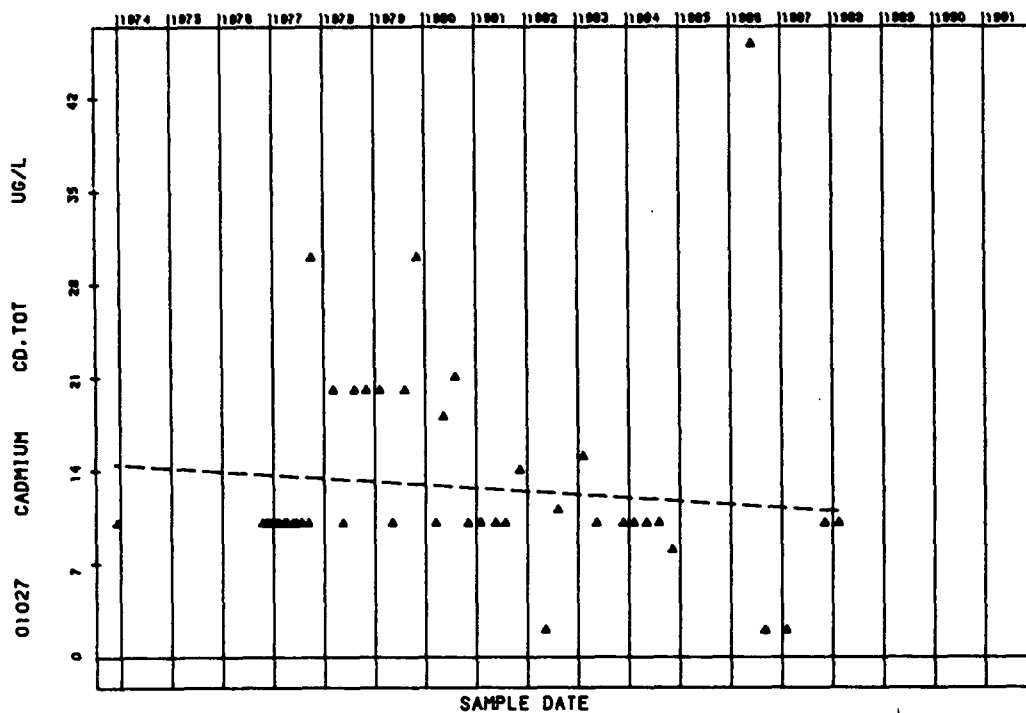
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL CADMIUM

10050200

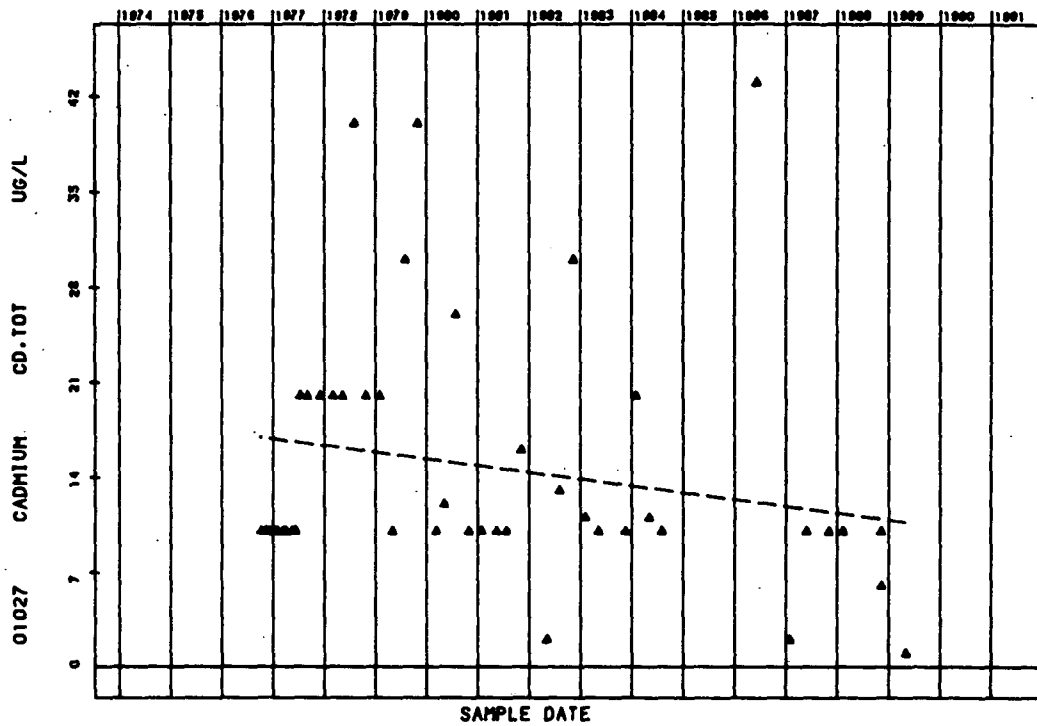
HOUSTON SHIP CHANNEL AT CM 120



TOTAL CADMIUM

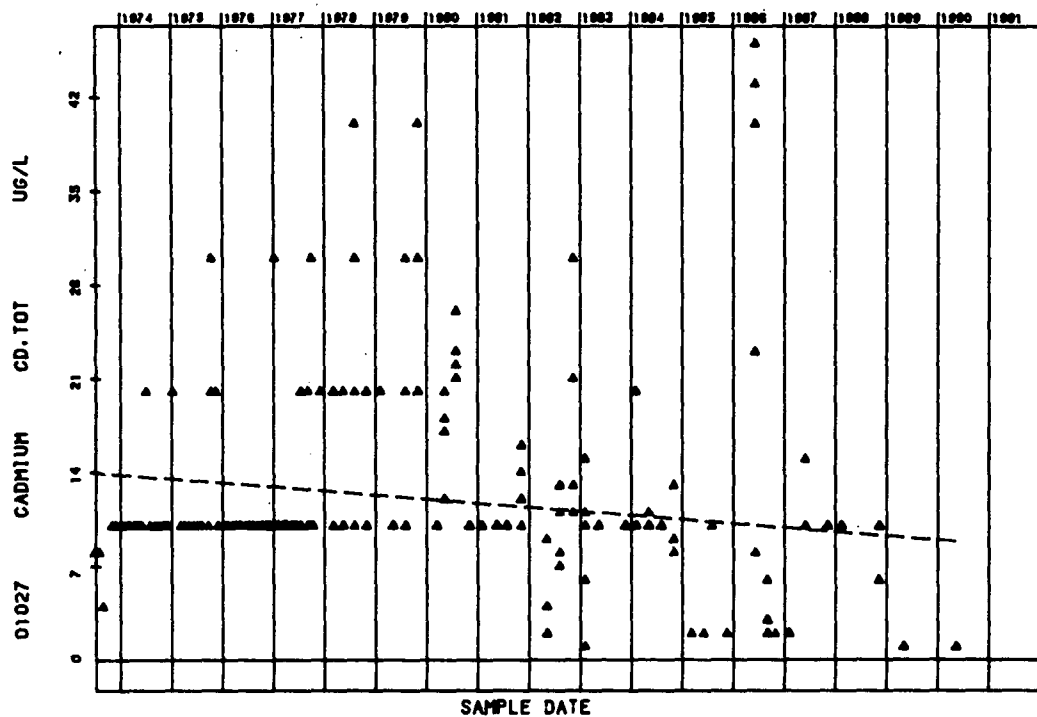
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL CADMIUM

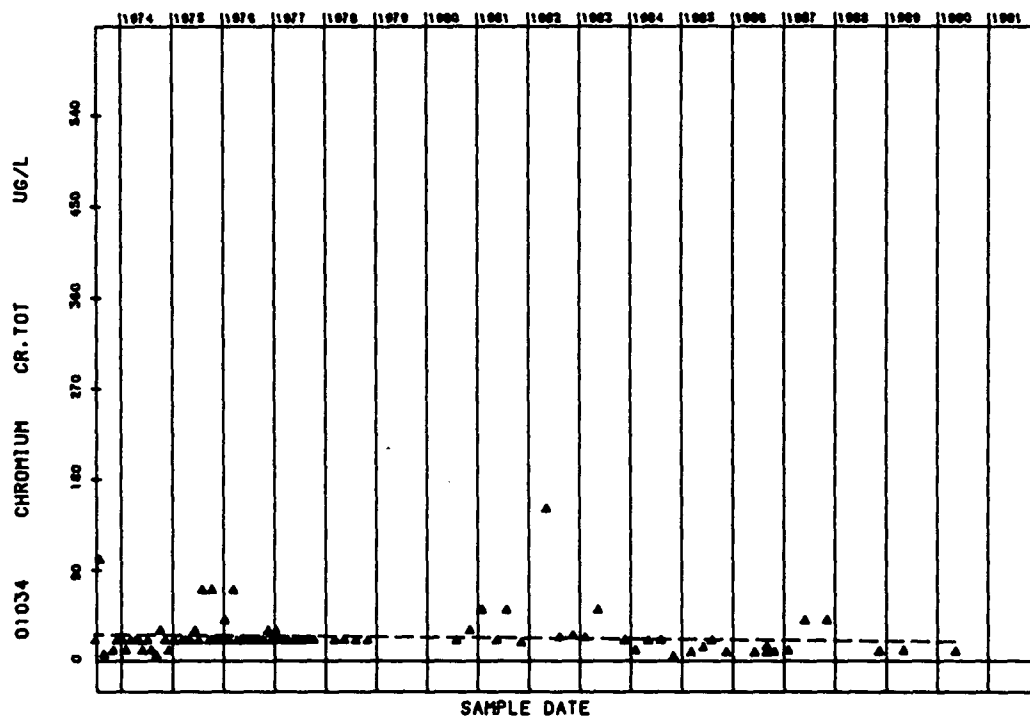
HOUSTON SHIP CHANNEL - OVERALL



TOTAL CHROMIUM

10070800

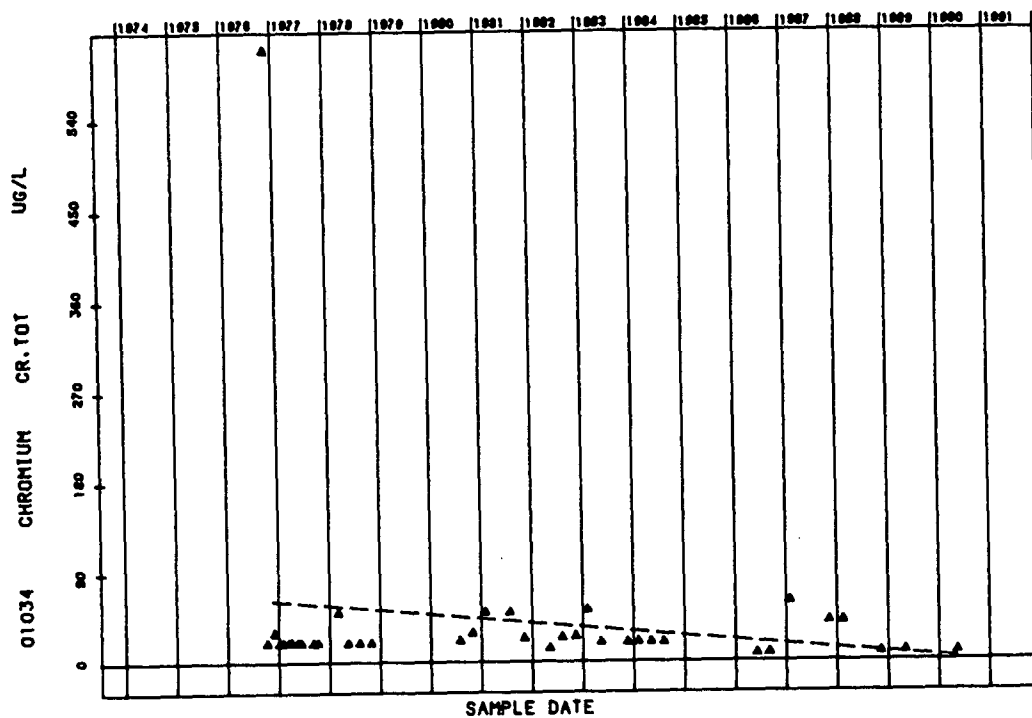
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL CHROMIUM

10060200

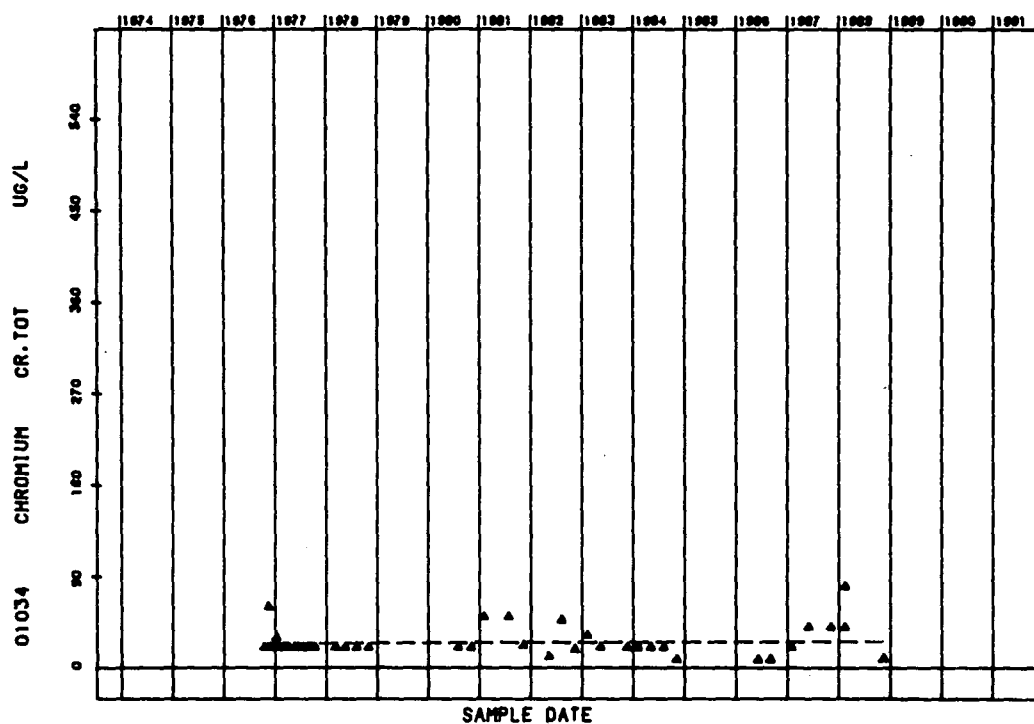
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL CHROMIUM

10060100

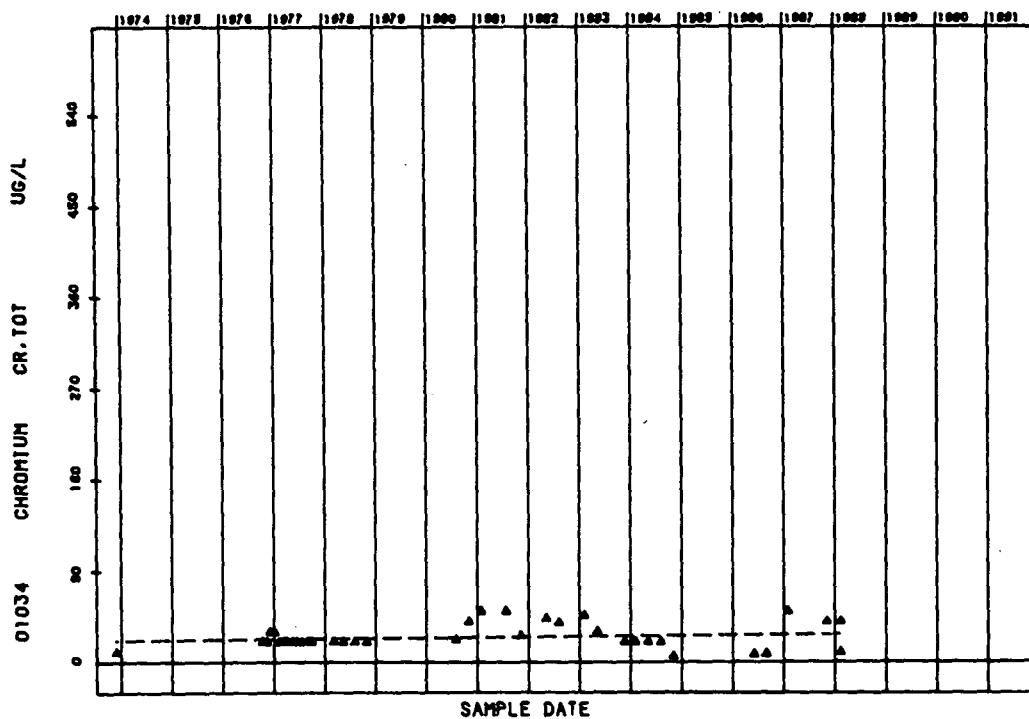
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL CHROMIUM

10050200

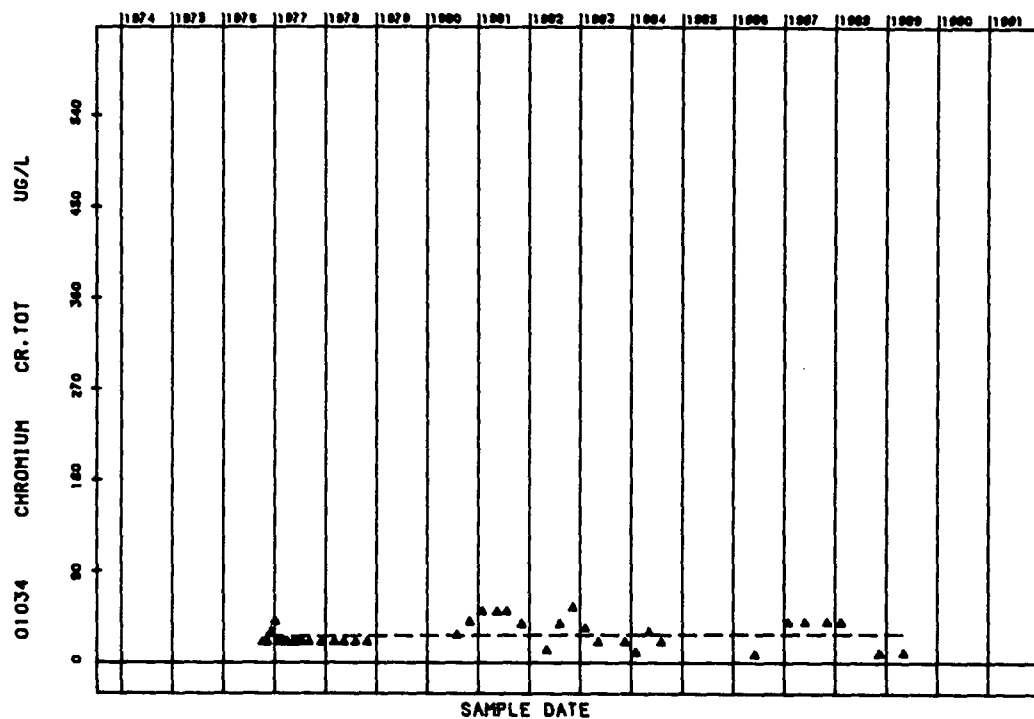
HOUSTON SHIP CHANNEL AT CM 120



TOTAL CHROMIUM

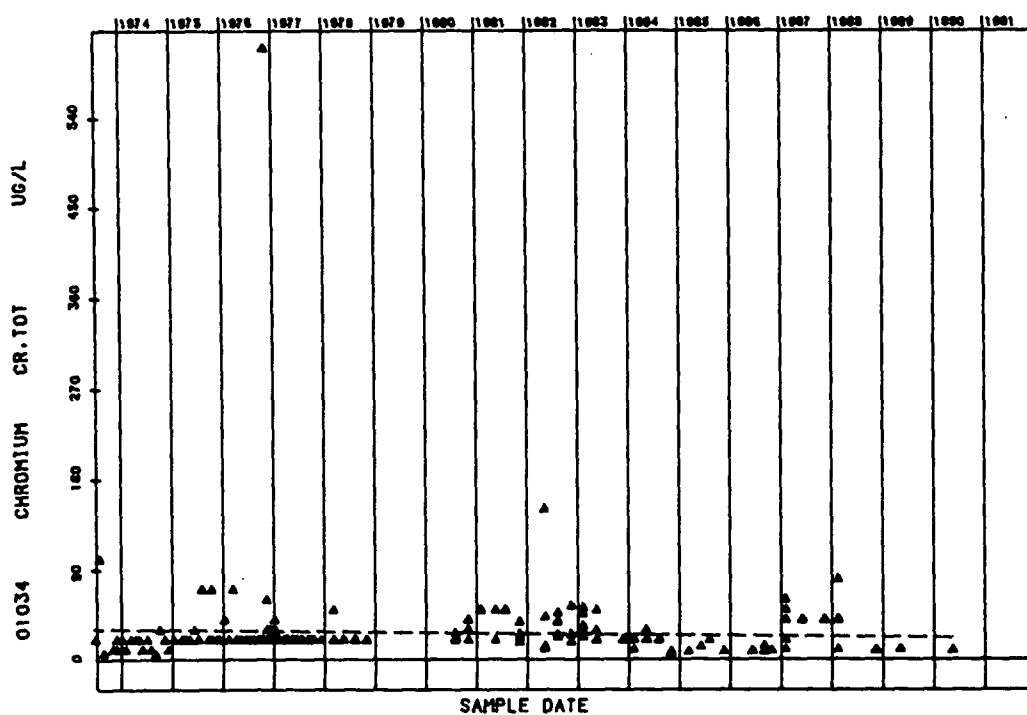
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL CHROMIUM

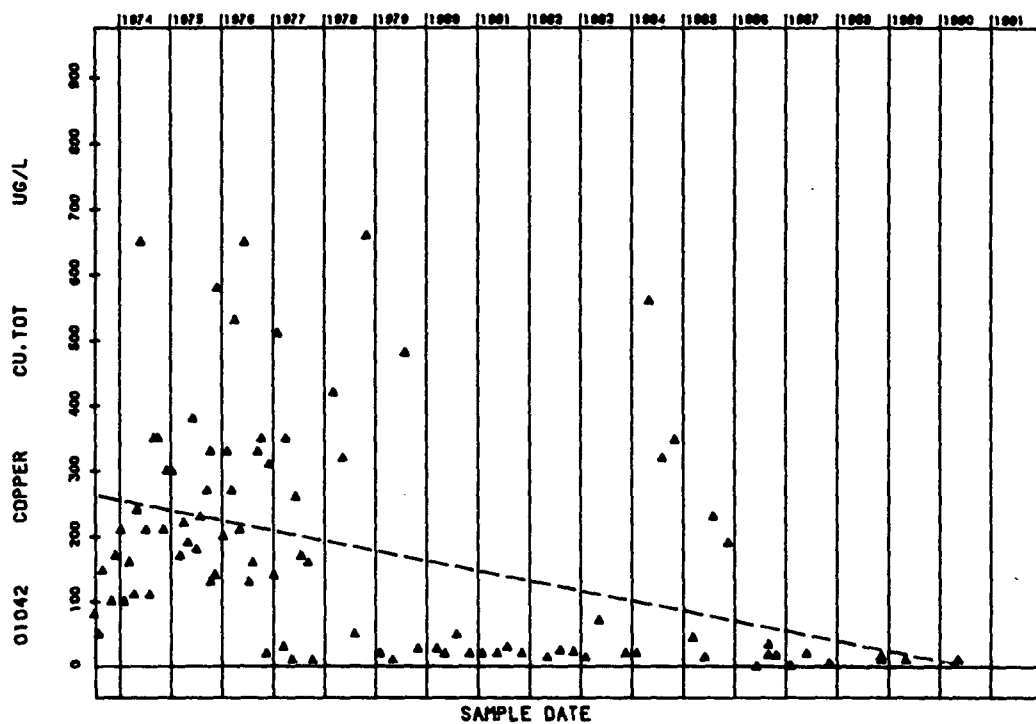
HOUSTON SHIP CHANNEL - OVERALL



TOTAL COPPER

10070800

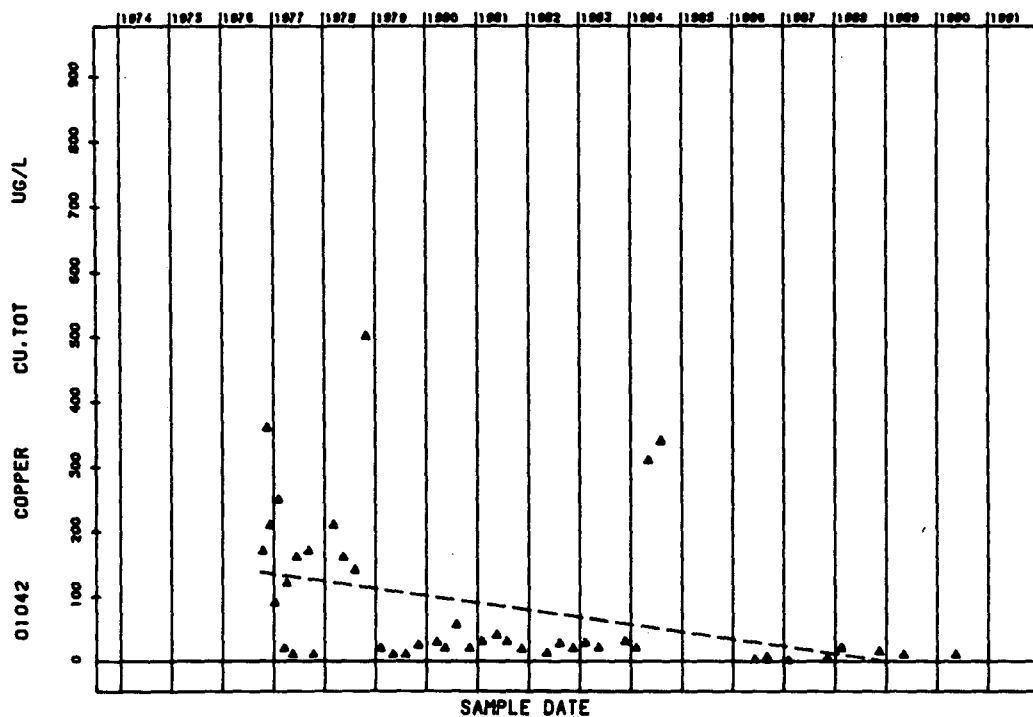
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL COPPER

10060200

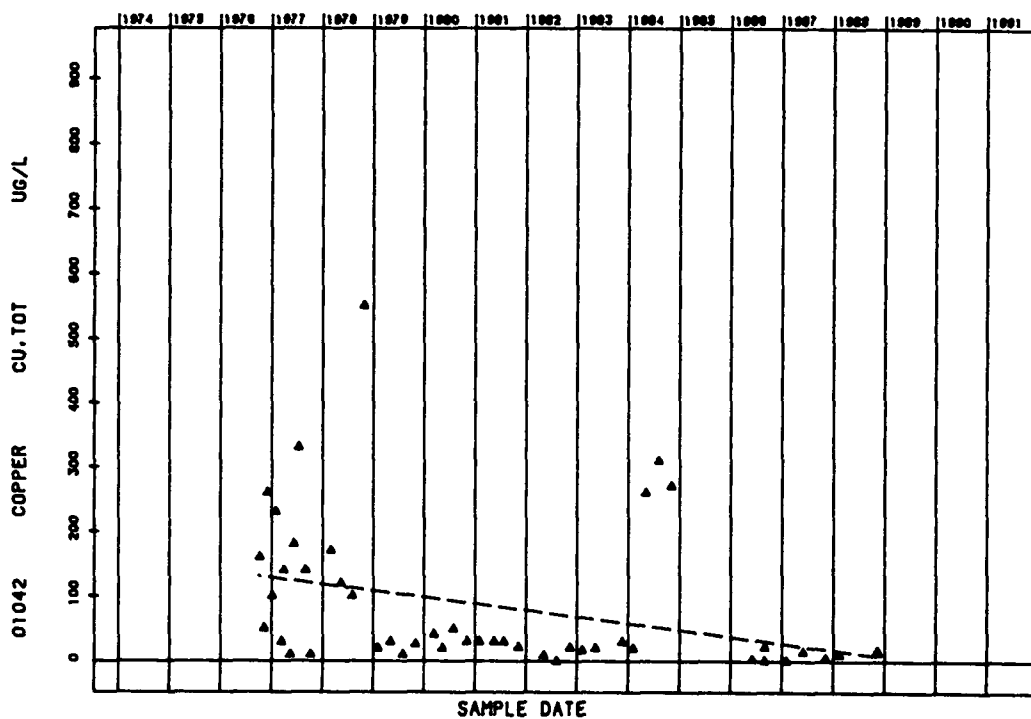
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL COPPER

10060100

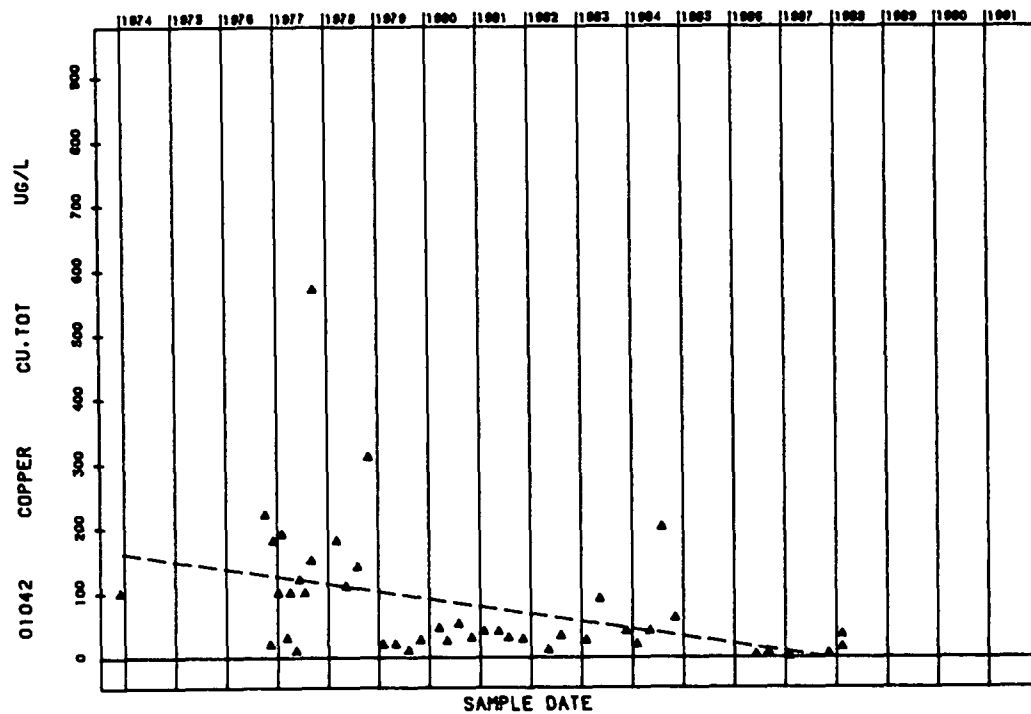
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL COPPER

10050200

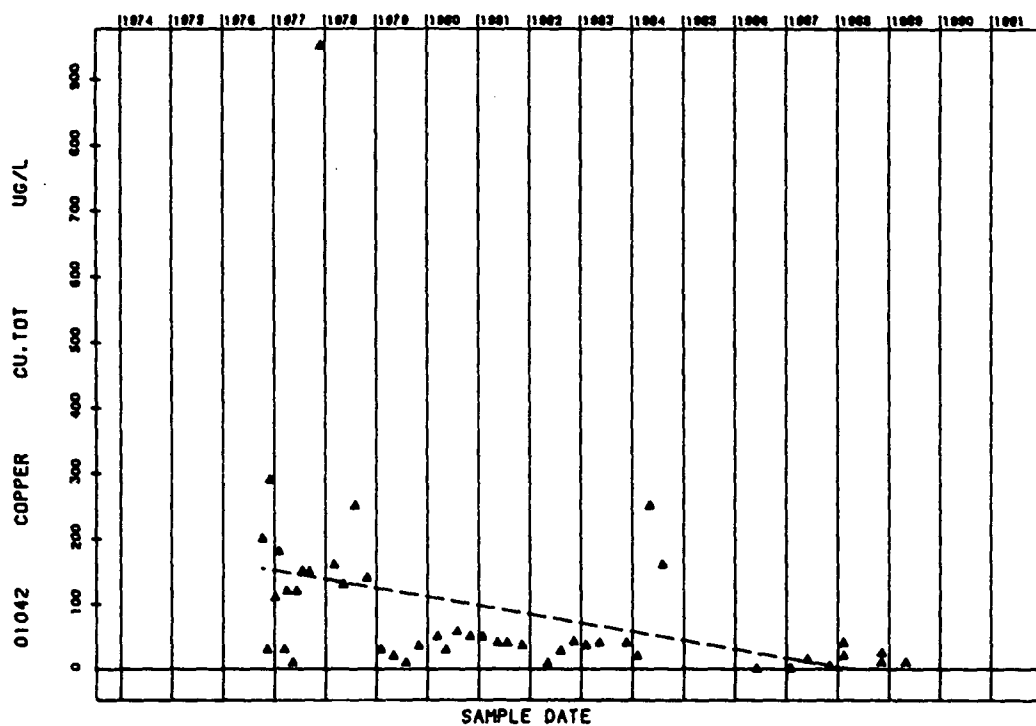
HOUSTON SHIP CHANNEL AT CM 120



TOTAL COPPER

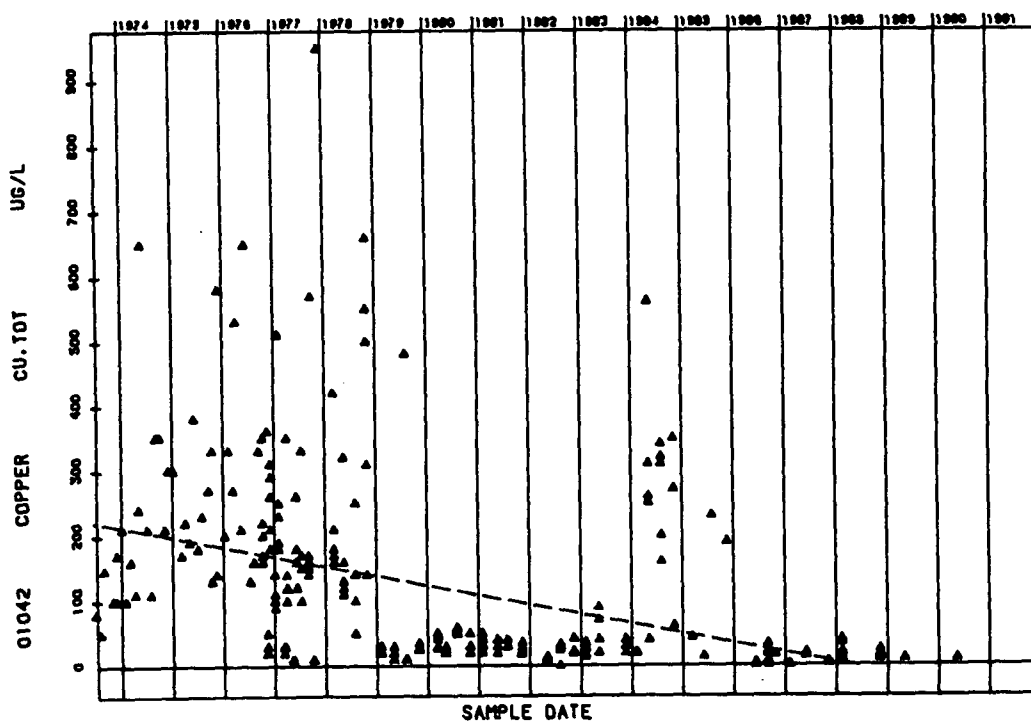
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL COPPER

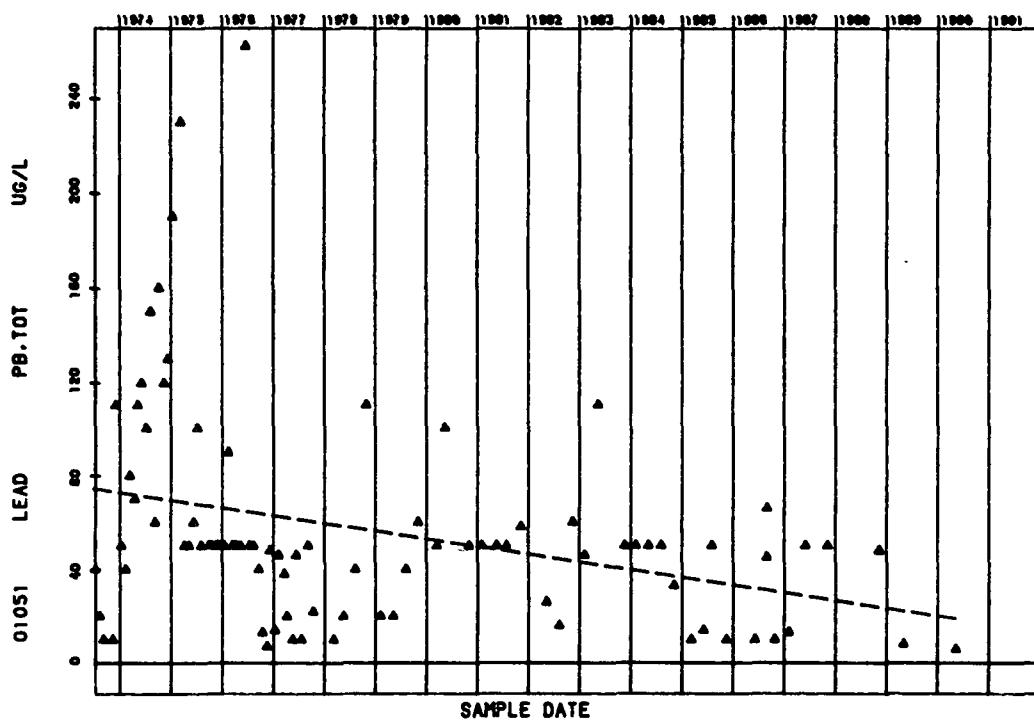
HOUSTON SHIP CHANNEL - OVERALL



TOTAL LEAD

10070800

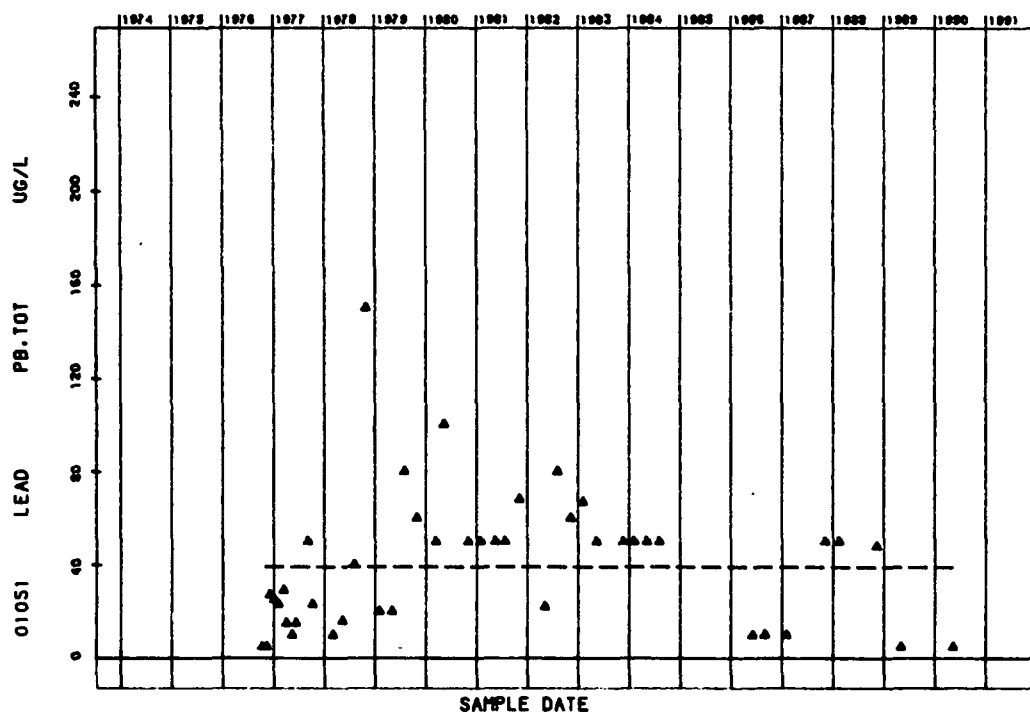
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL LEAD

10060200

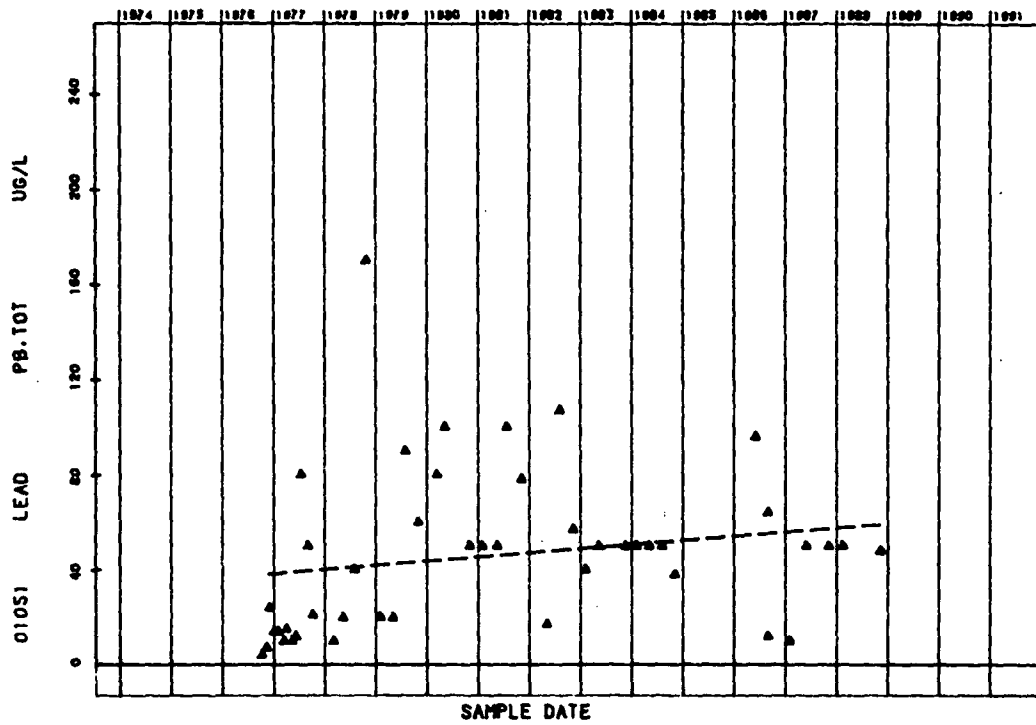
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL LEAD

10060100

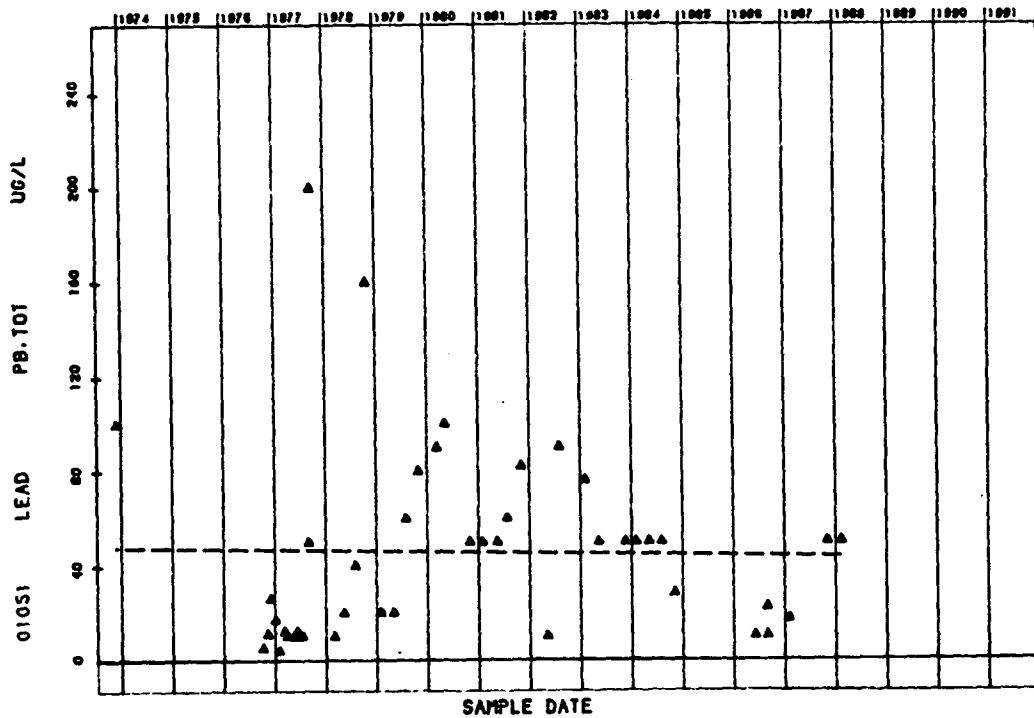
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL LEAD

10050200

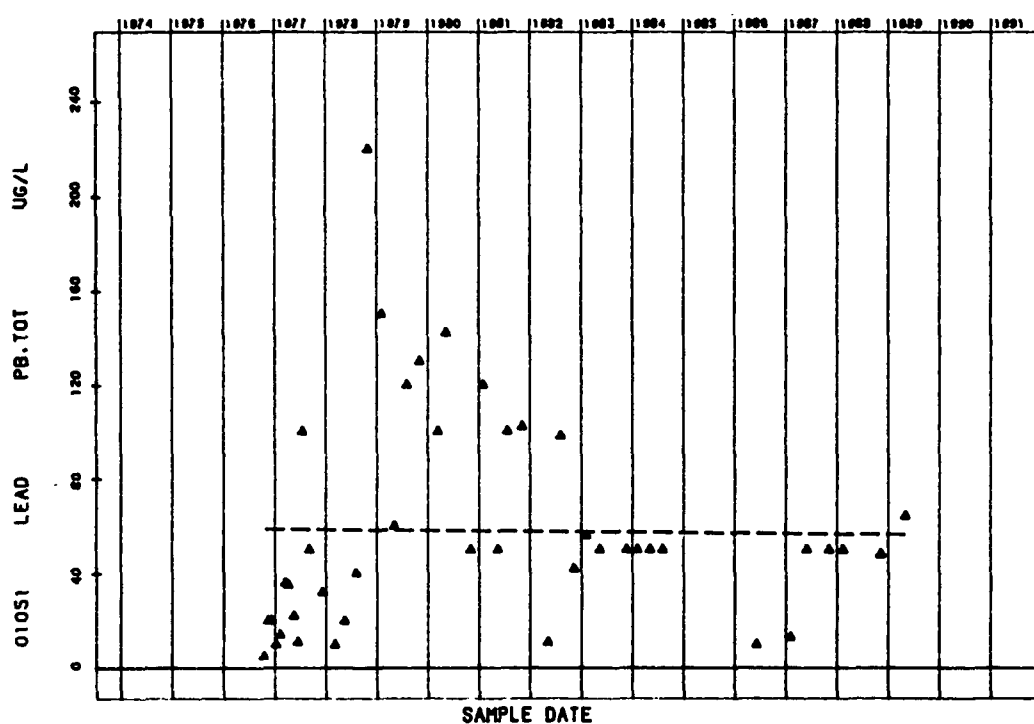
HOUSTON SHIP CHANNEL AT CM 120



TOTAL LEAD

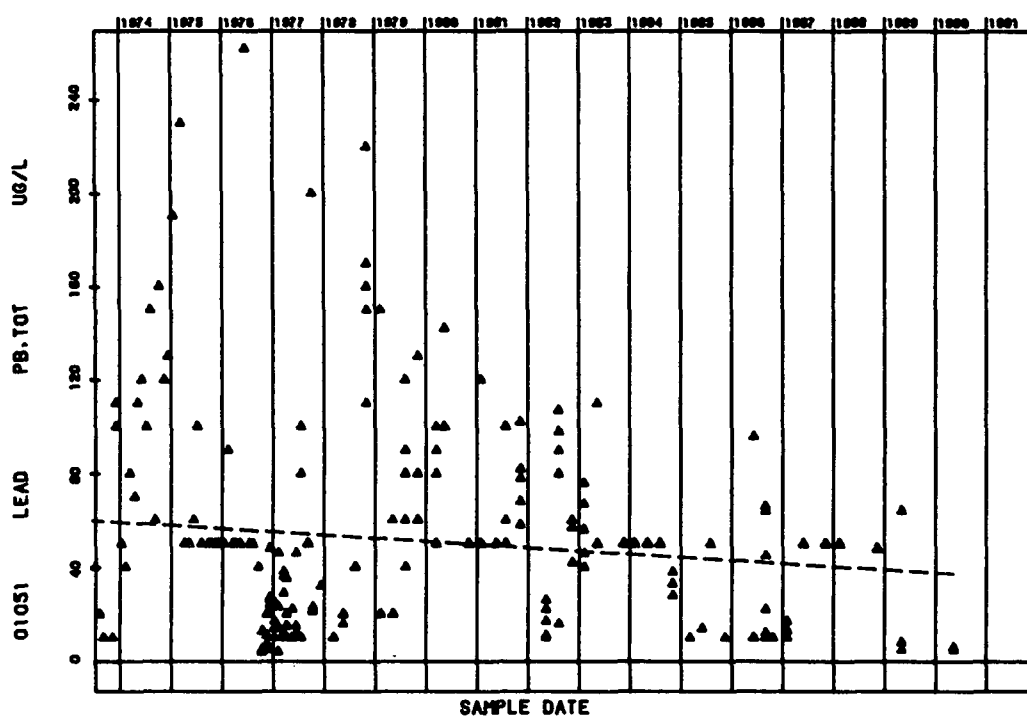
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL LEAD

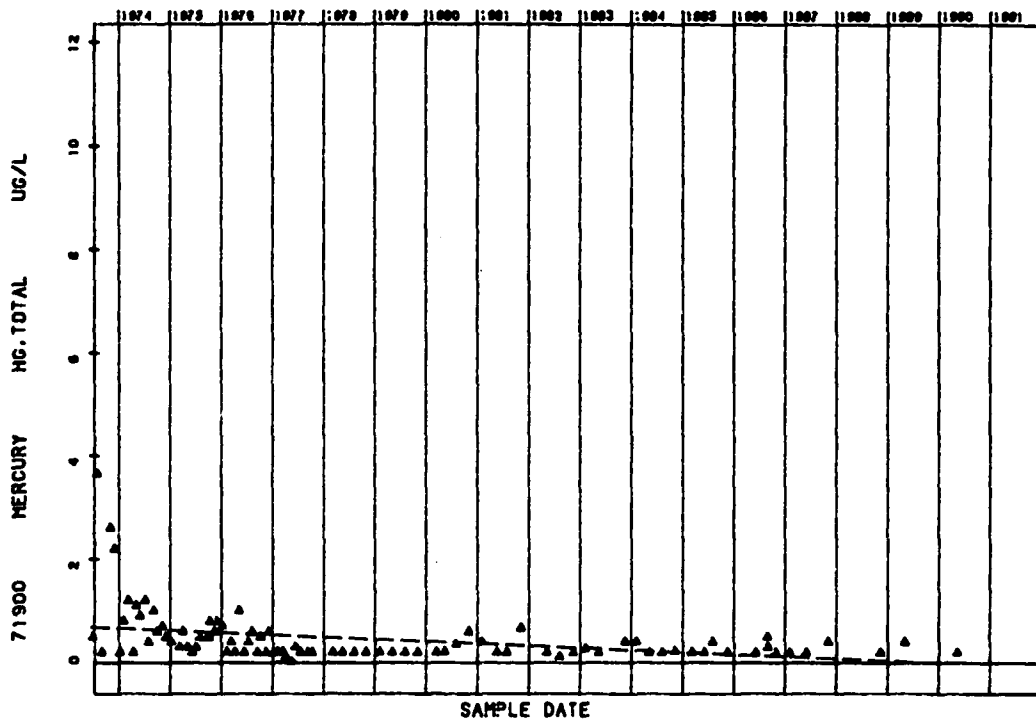
HOUSTON SHIP CHANNEL - OVERALL



TOTAL MERCURY

10070800

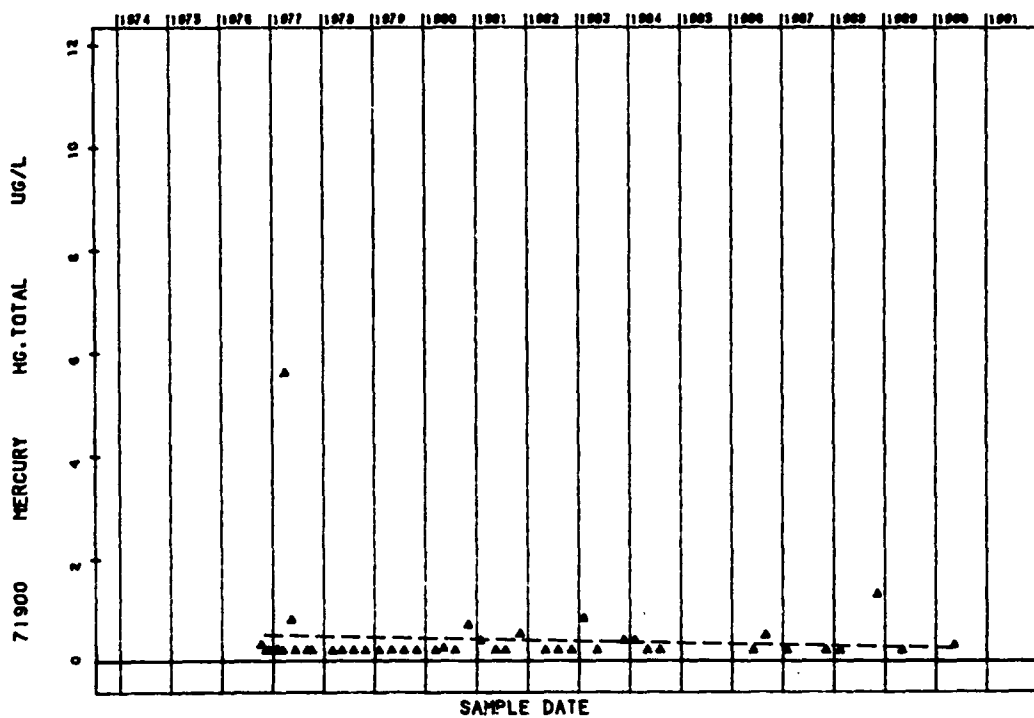
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL MERCURY

10060200

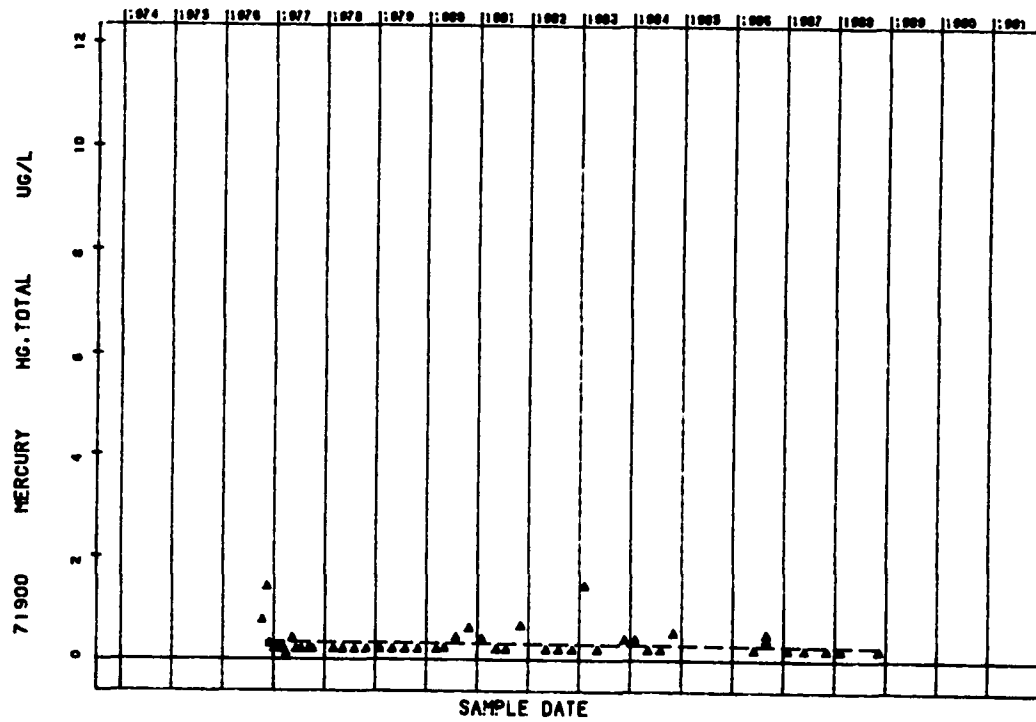
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL MERCURY

10060100

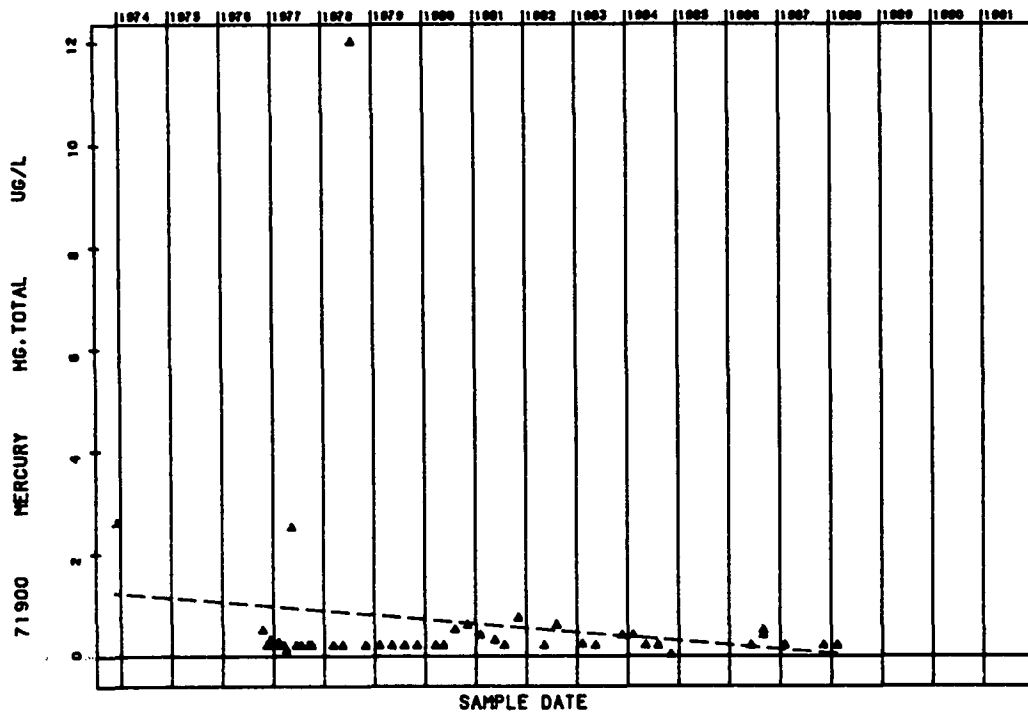
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL MERCURY

10050200

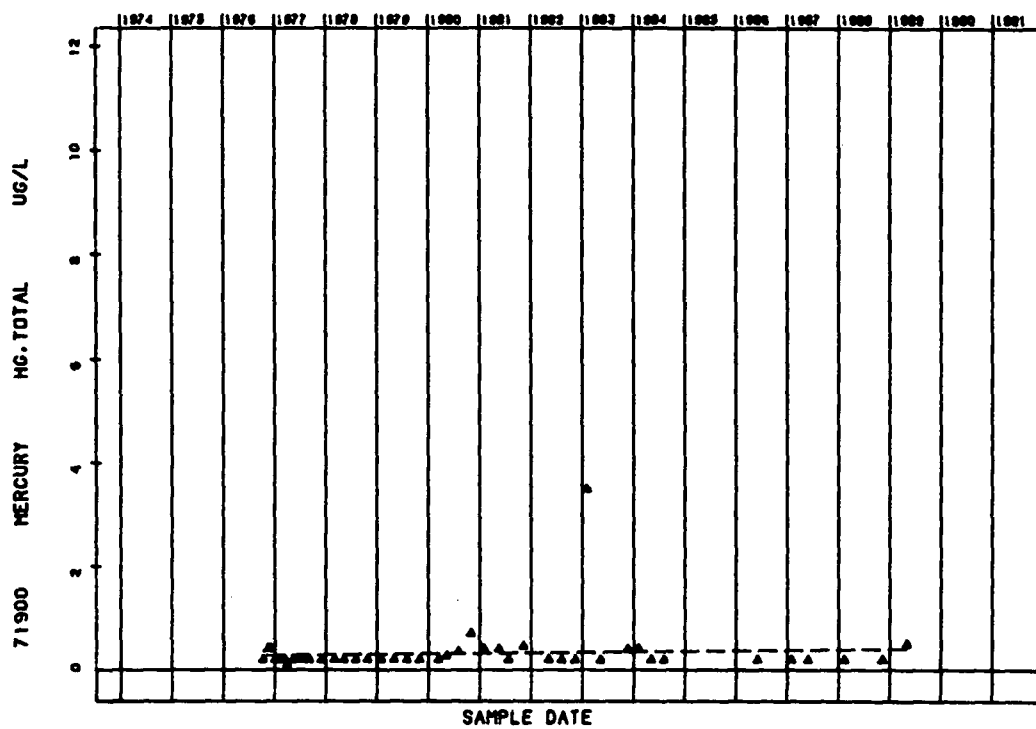
HOUSTON SHIP CHANNEL AT CM 120



TOTAL MERCURY

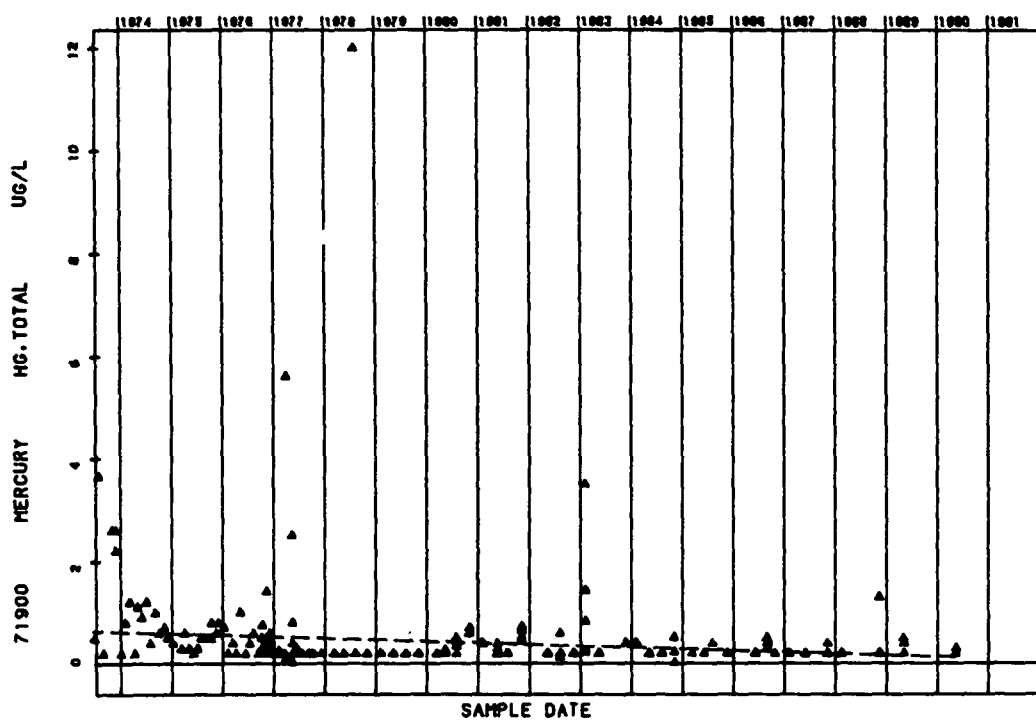
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL MERCURY

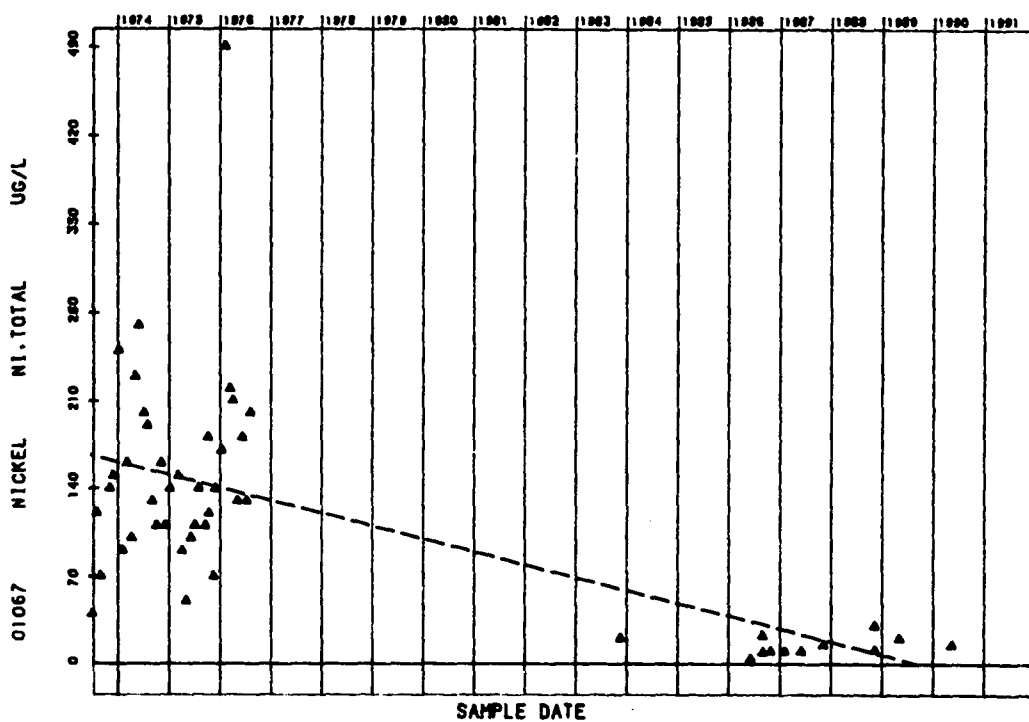
HOUSTON SHIP CHANNEL - OVERALL



TOTAL NICKEL

10070800

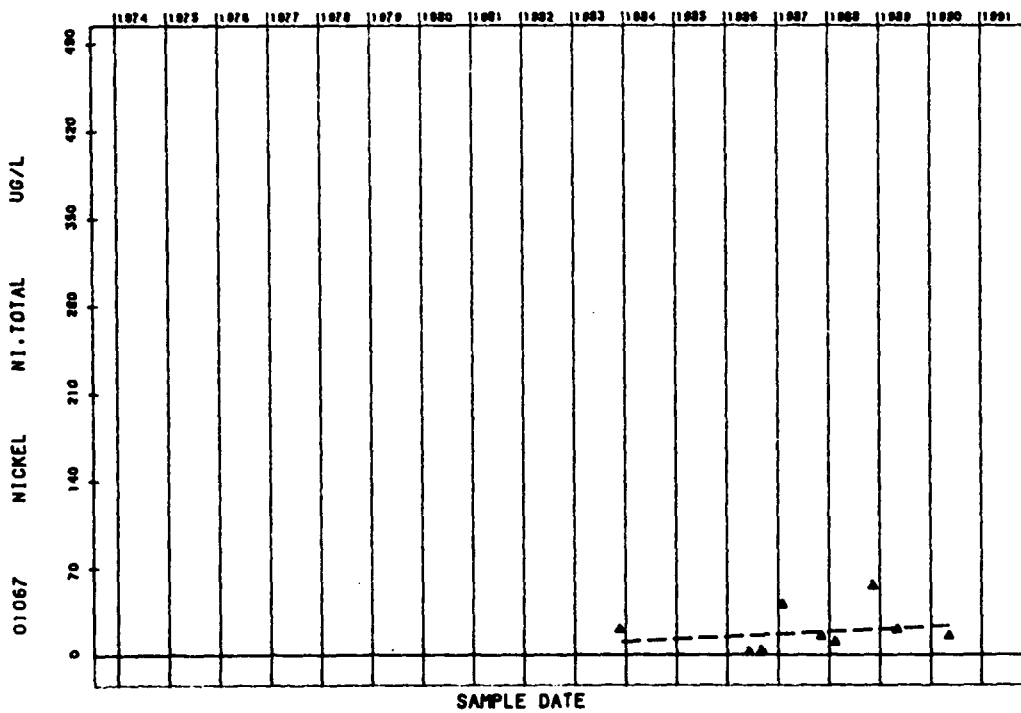
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL NICKEL

10060200

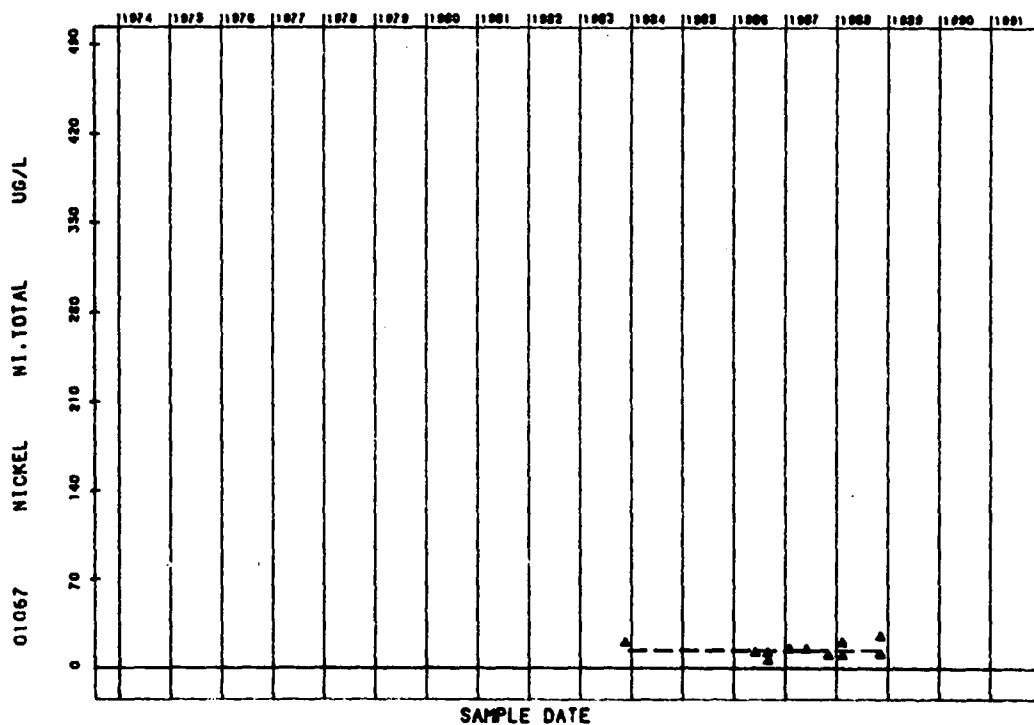
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL NICKEL

10060100

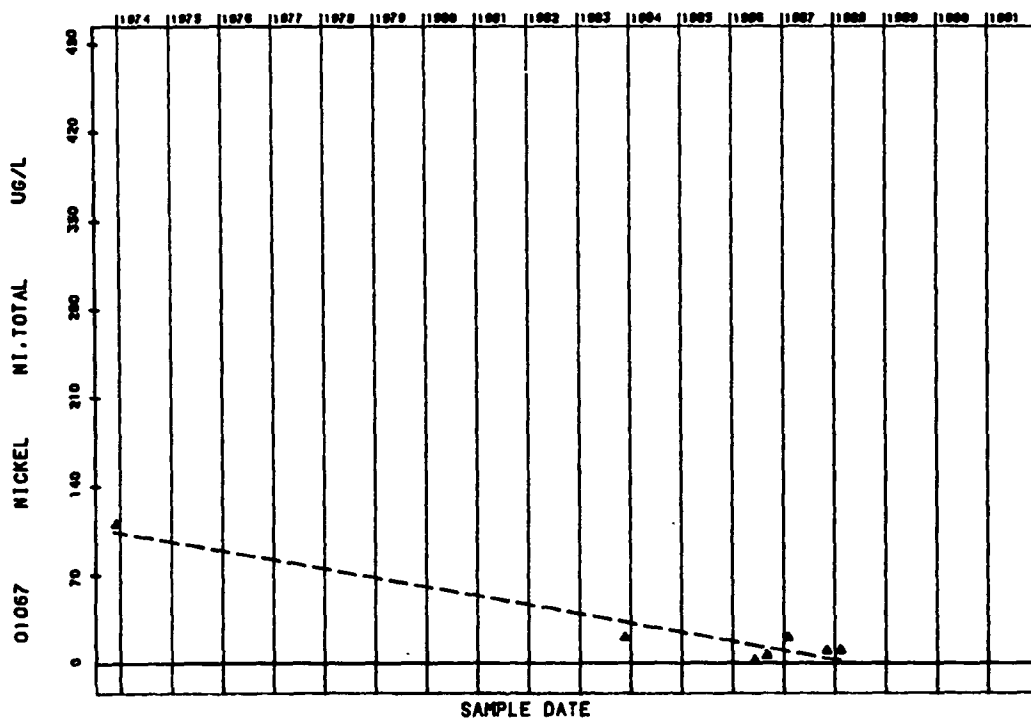
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL NICKEL

10050200

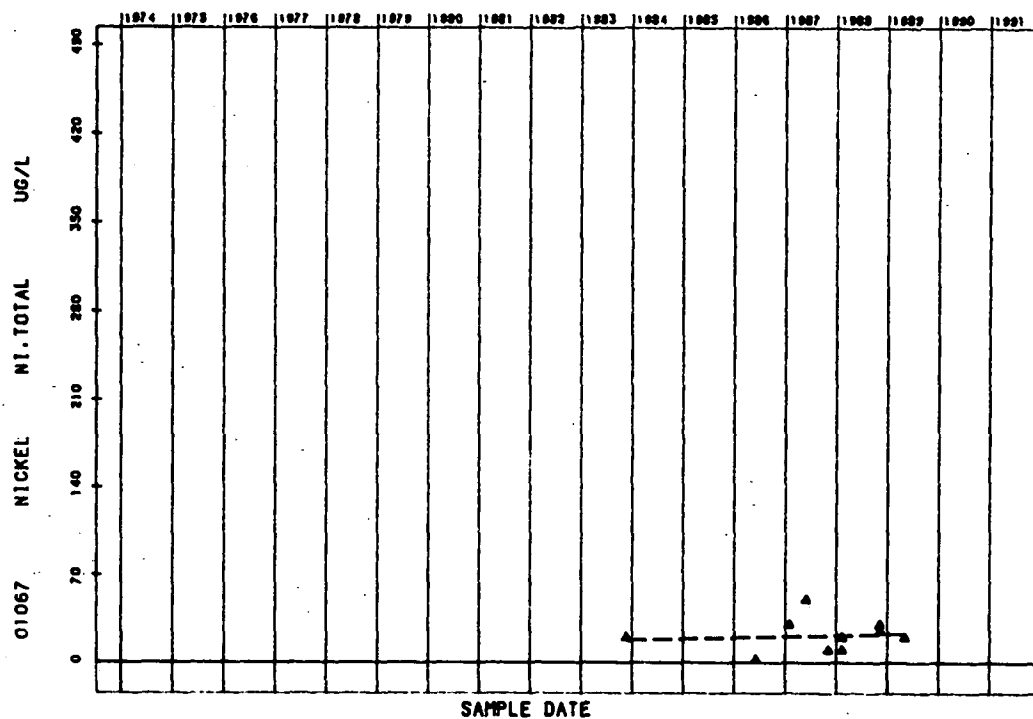
HOUSTON SHIP CHANNEL AT CM 120



TOTAL NICKEL

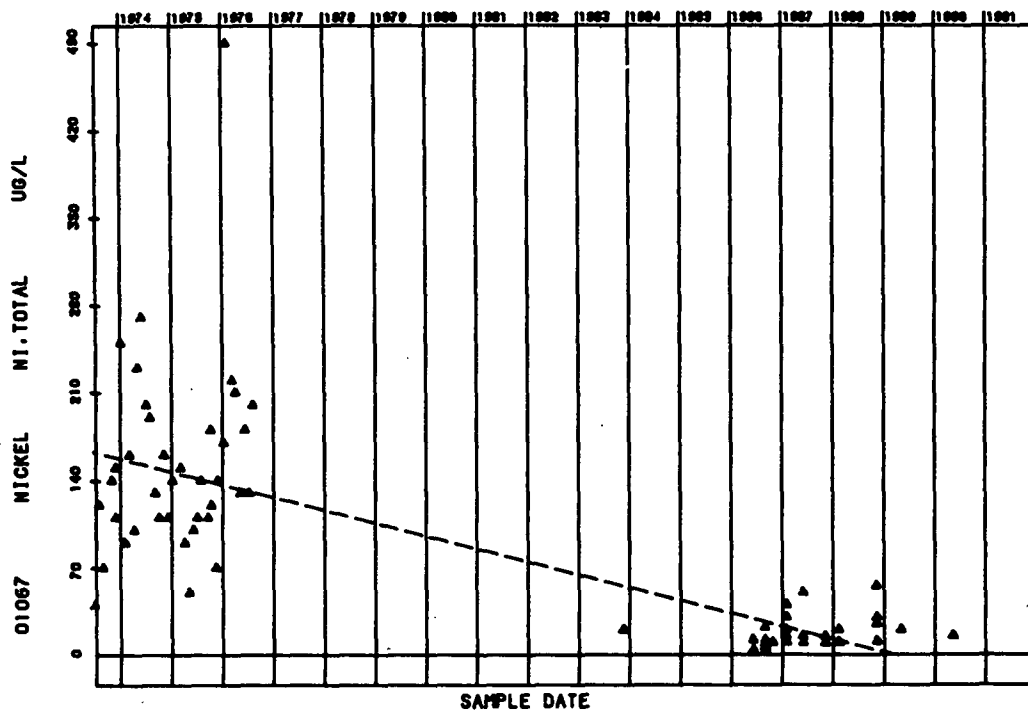
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL NICKEL

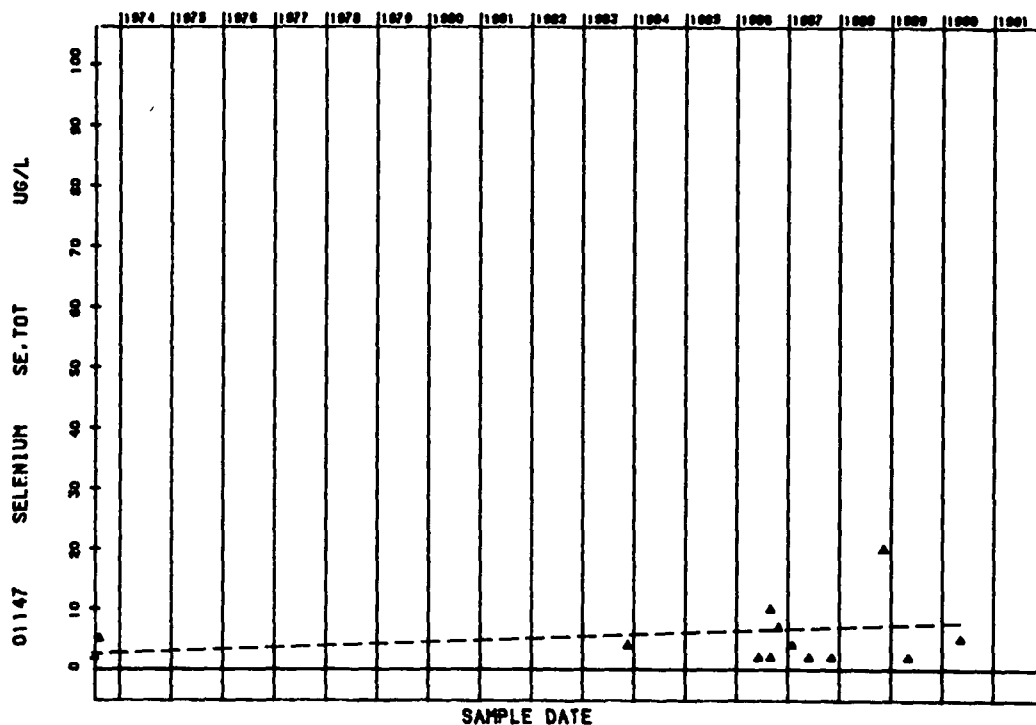
HOUSTON SHIP CHANNEL - OVERALL



TOTAL SELENIUM

10070800

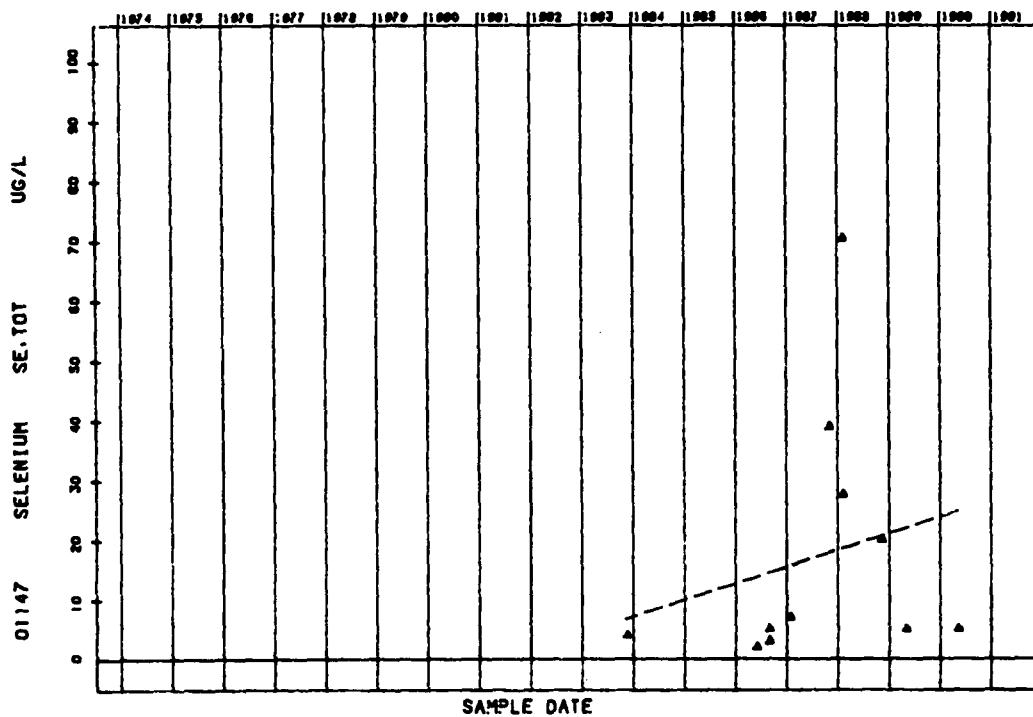
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL SELENIUM

10060200

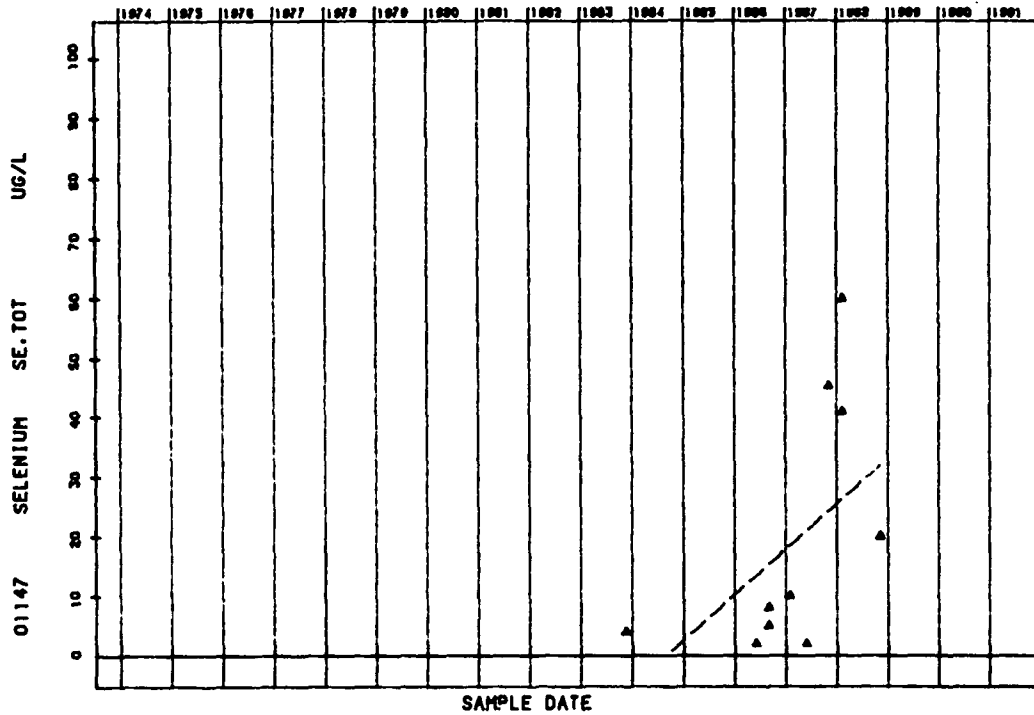
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL SELENIUM

10060100

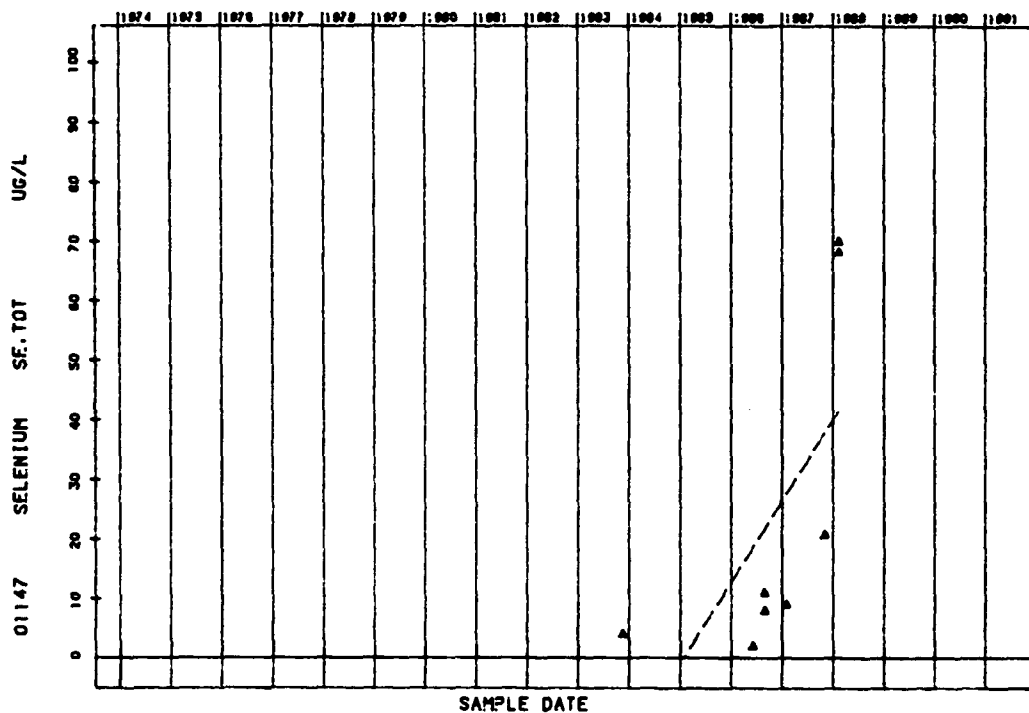
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL SELENIUM

10050200

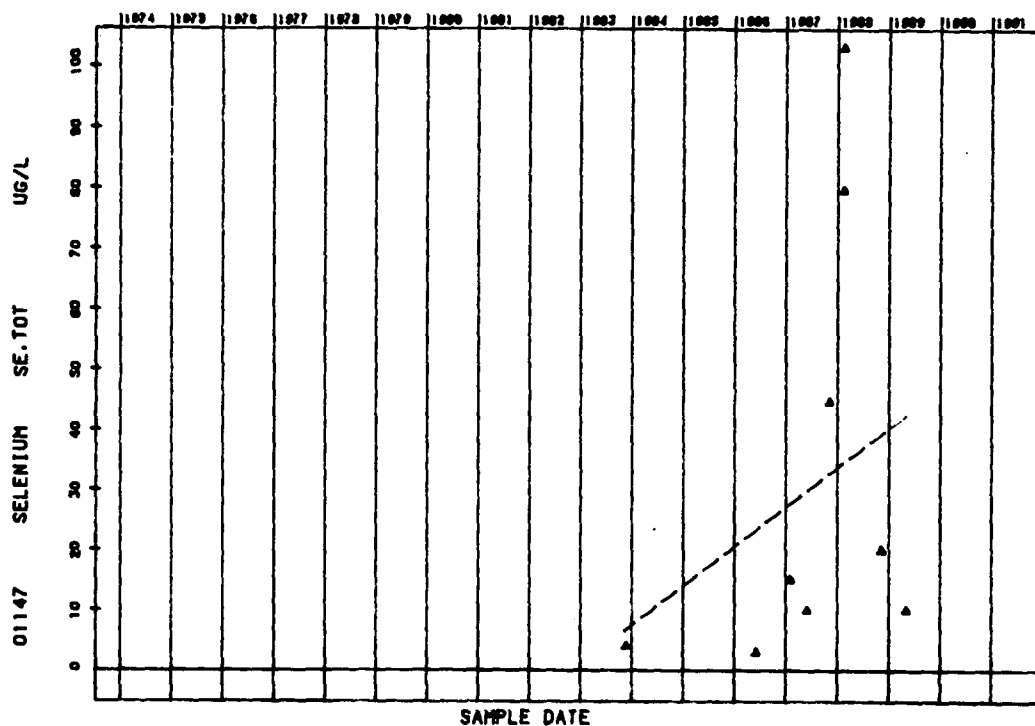
HOUSTON SHIP CHANNEL AT CM 120



TOTAL SELENIUM

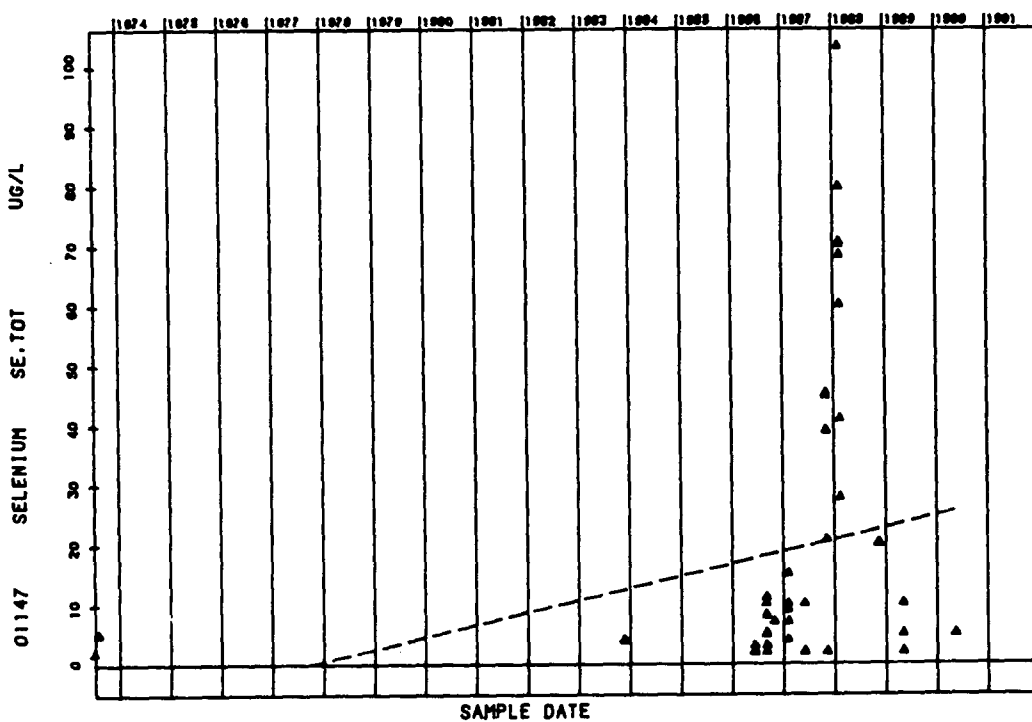
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL SELENIUM

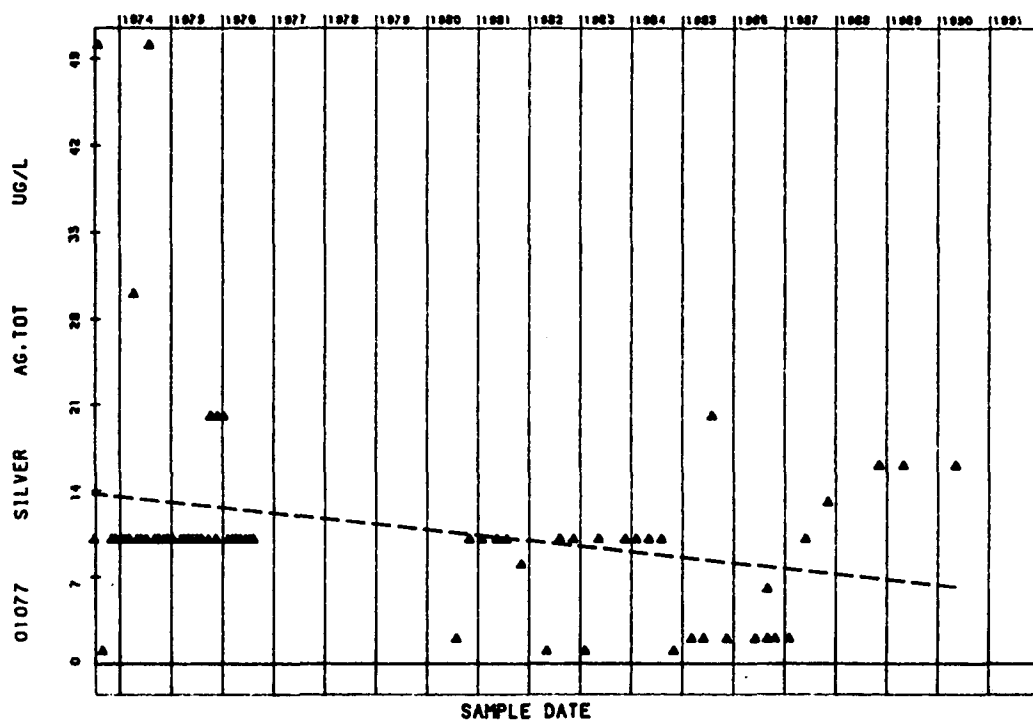
HOUSTON SHIP CHANNEL - OVERALL



TOTAL SILVER

10070800

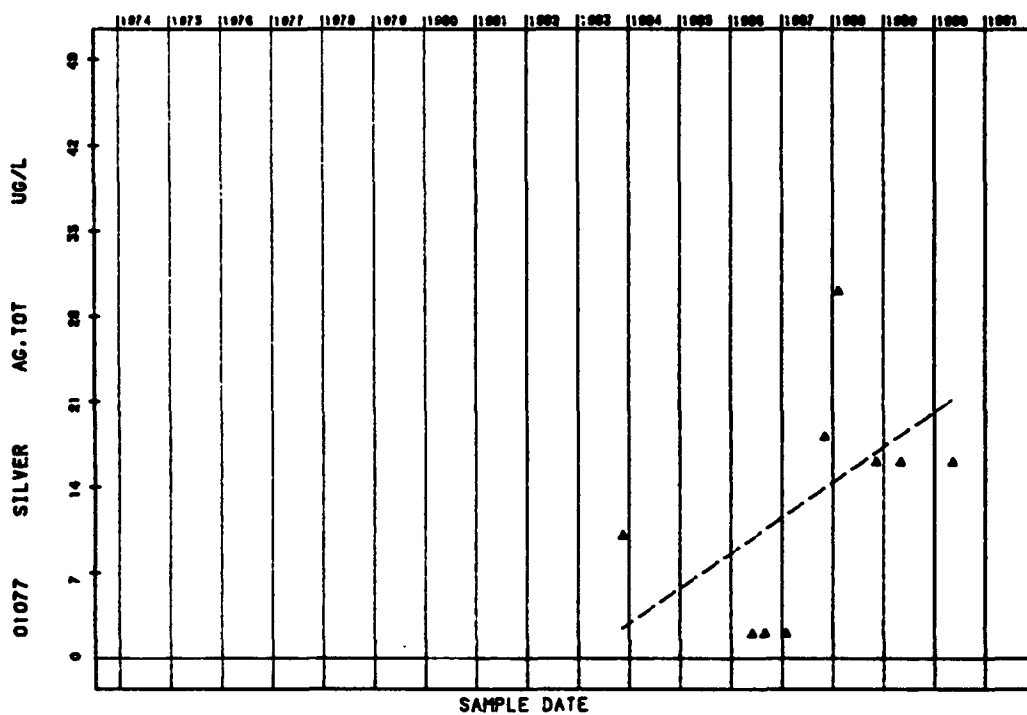
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL SILVER

10060200

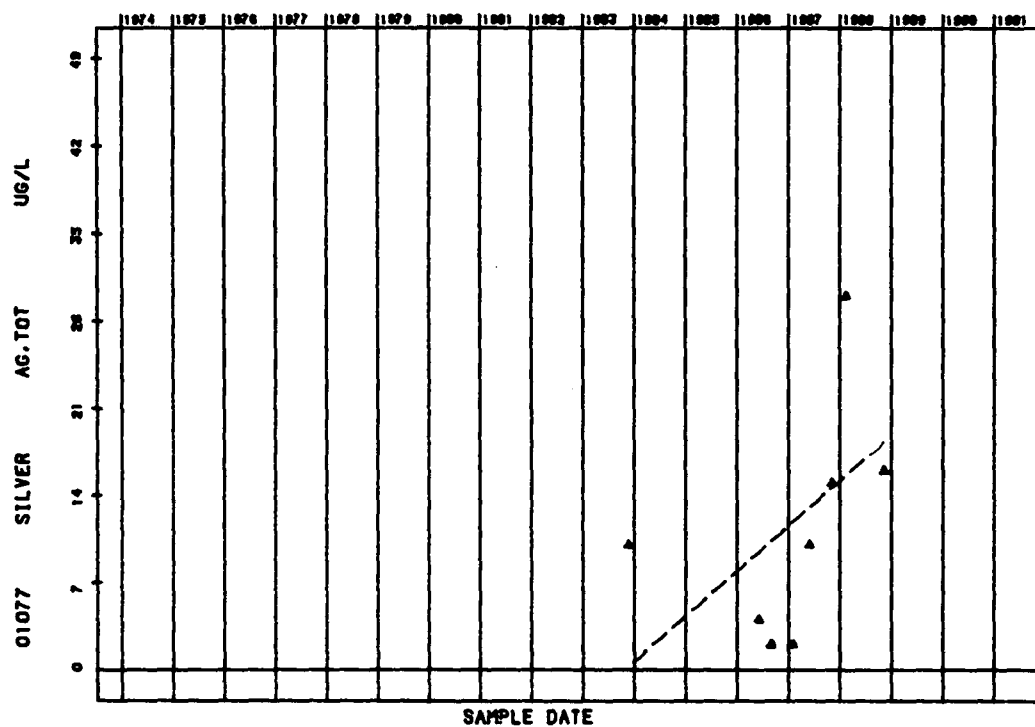
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL SILVER

10060100

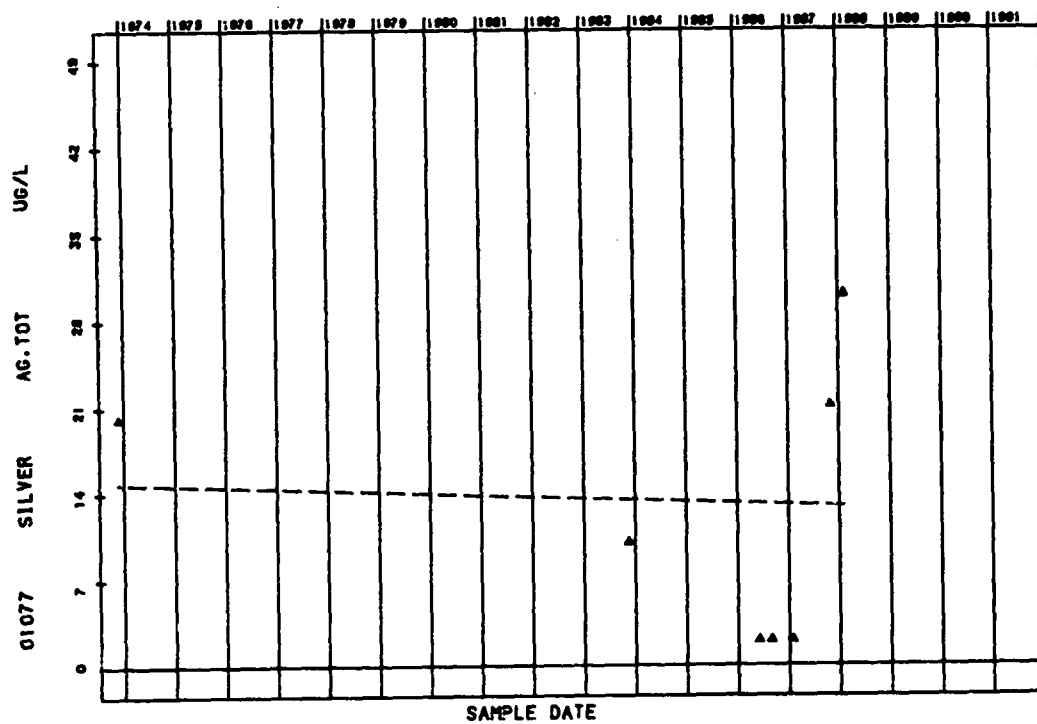
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL SILVER

10050200

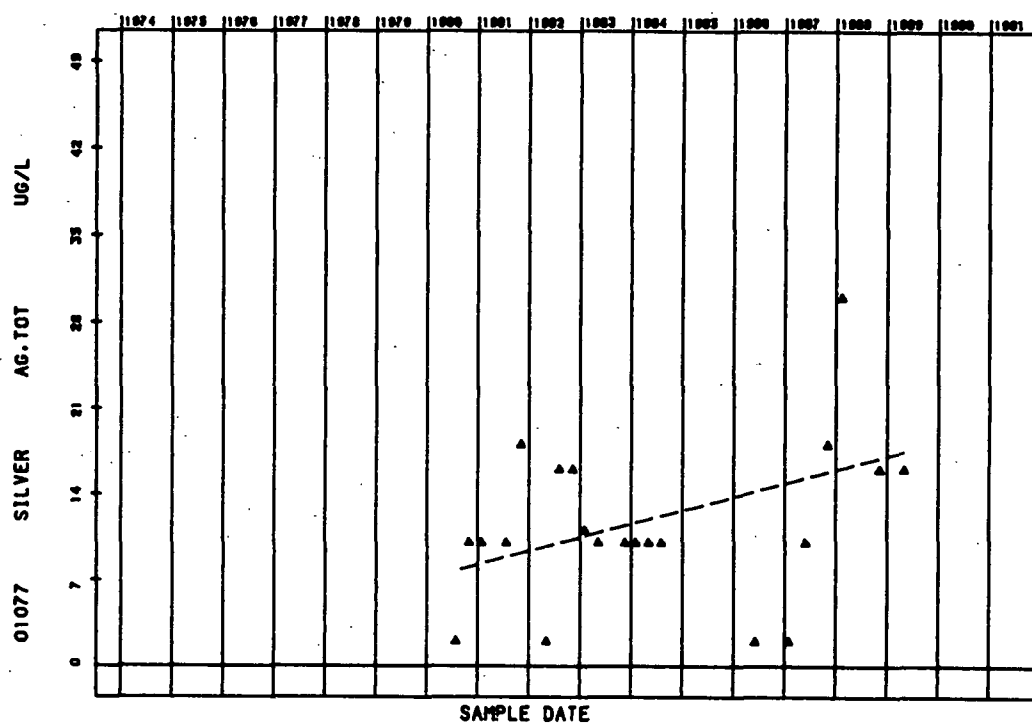
HOUSTON SHIP CHANNEL AT CM 120



TOTAL SILVER

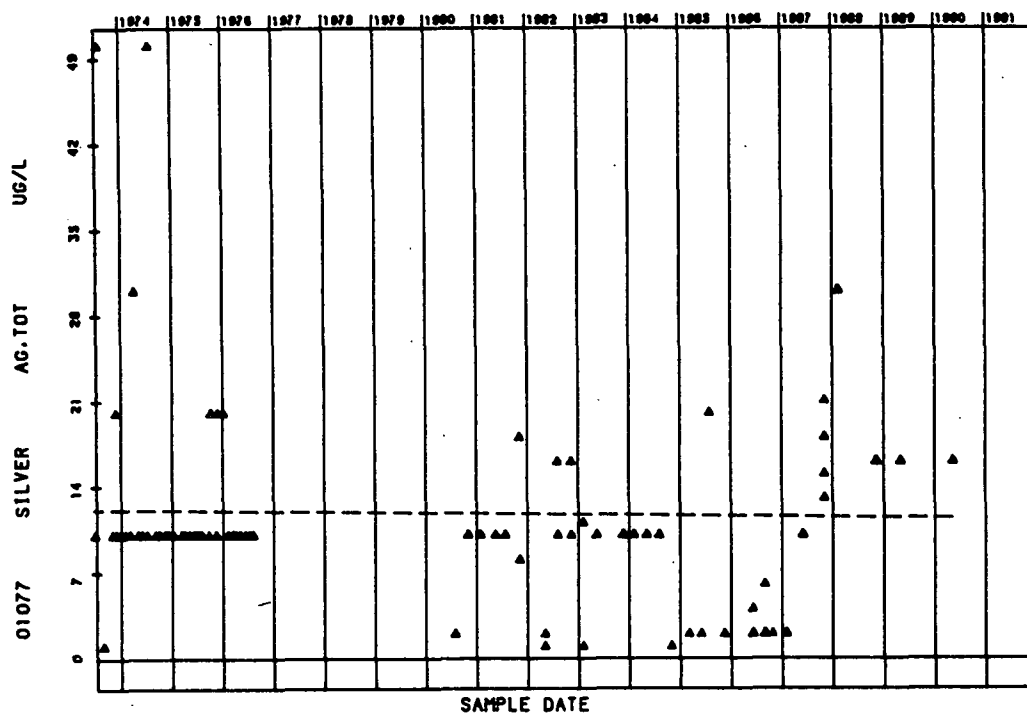
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL SILVER

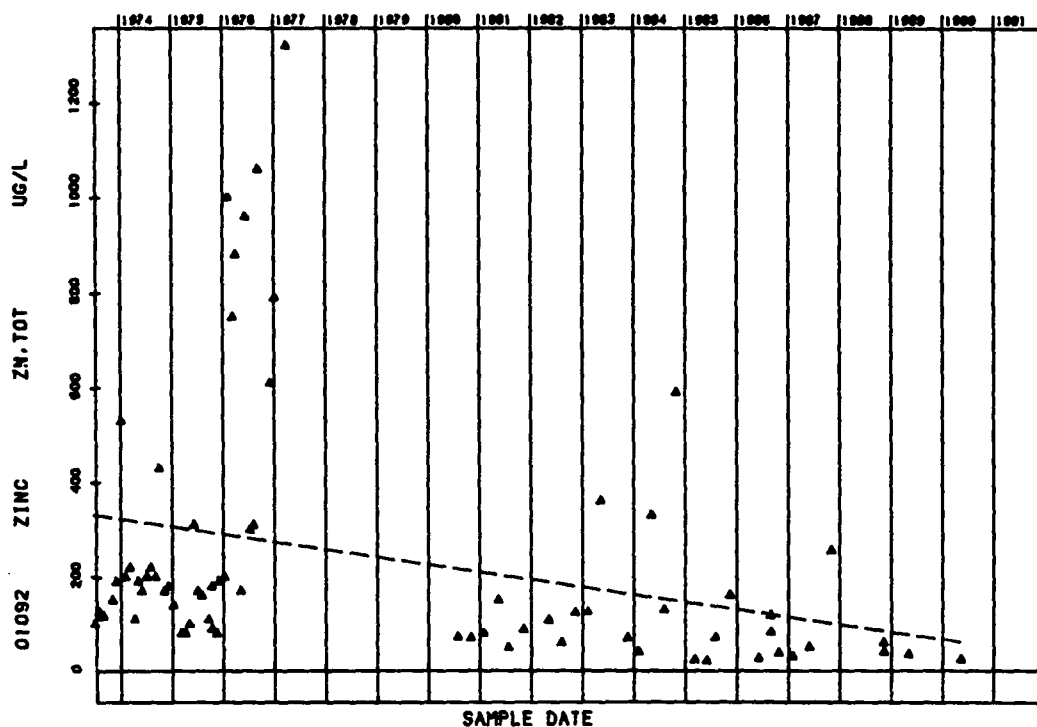
HOUSTON SHIP CHANNEL - OVERALL



TOTAL ZINC

10070800

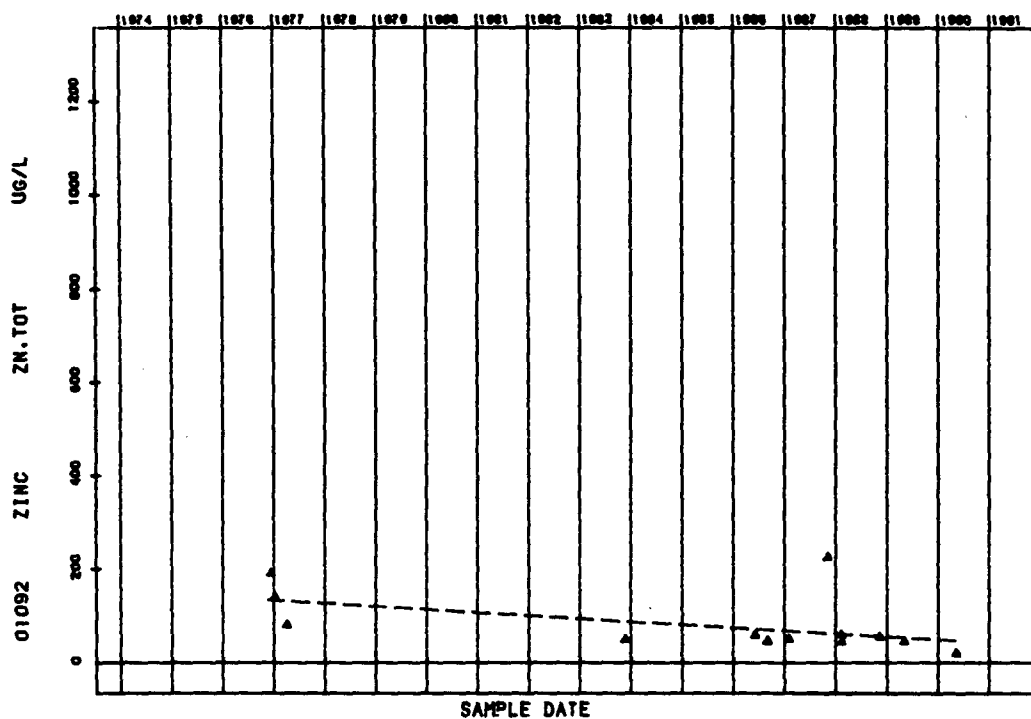
HOUSTON SHIP CHANNEL AT TURNING BASIN



TOTAL ZINC

10060200

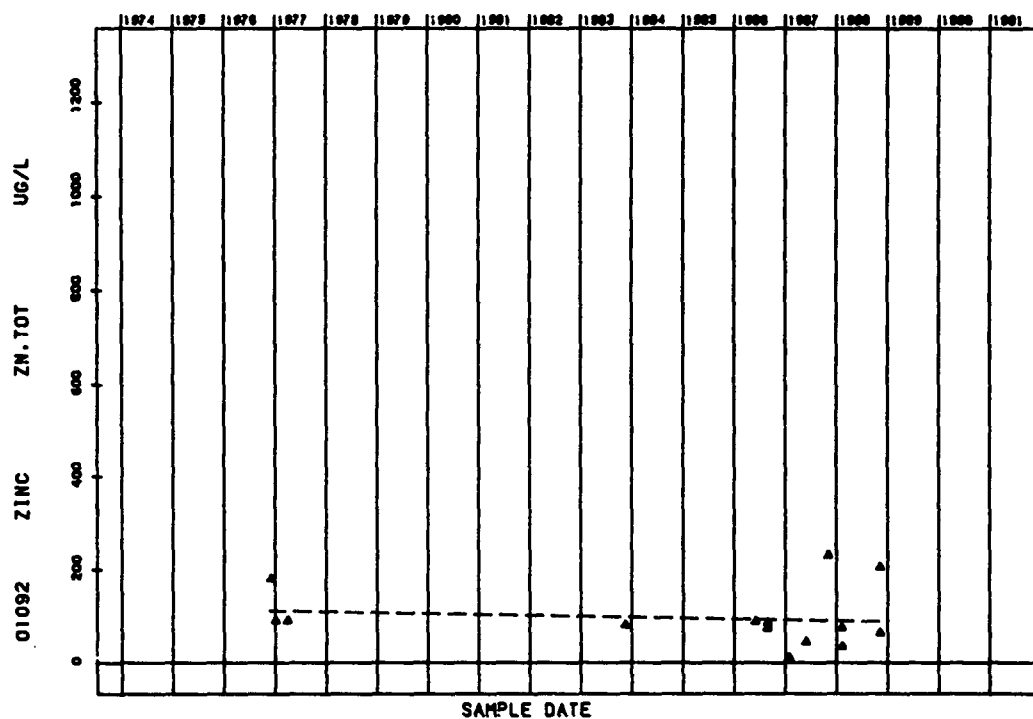
HOUSTON SHIP CHANNEL AT GREENS BAYOU



TOTAL ZINC

10060100

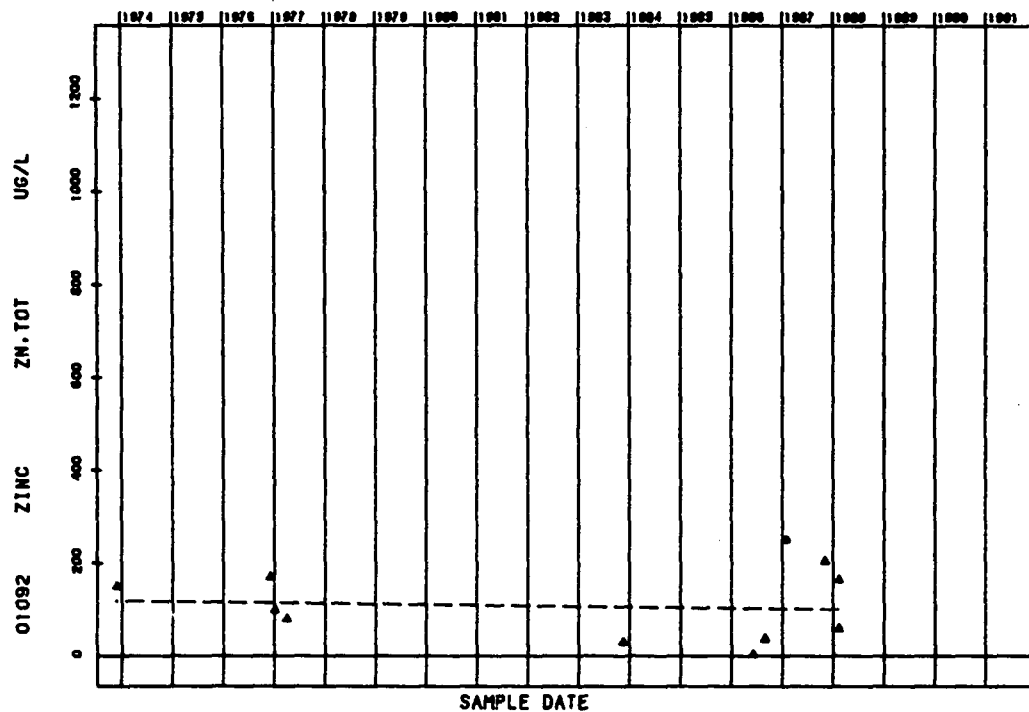
HOUSTON SHIP CHANNEL AT SJ MONUMENT



TOTAL ZINC

10050200

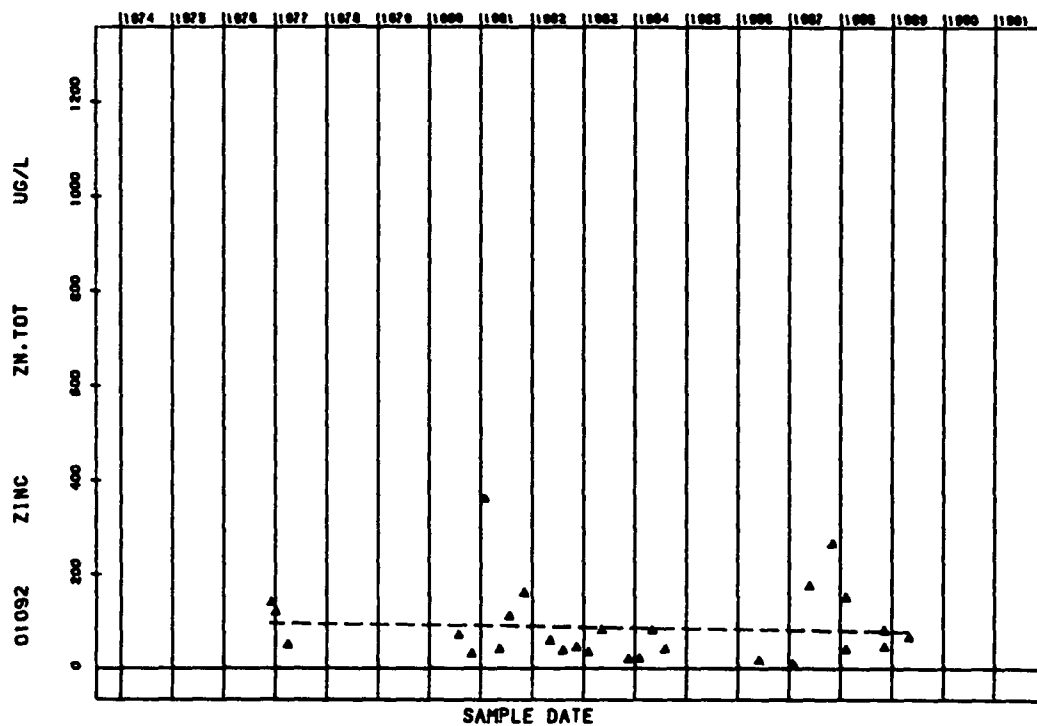
HOUSTON SHIP CHANNEL AT CM 120



TOTAL ZINC

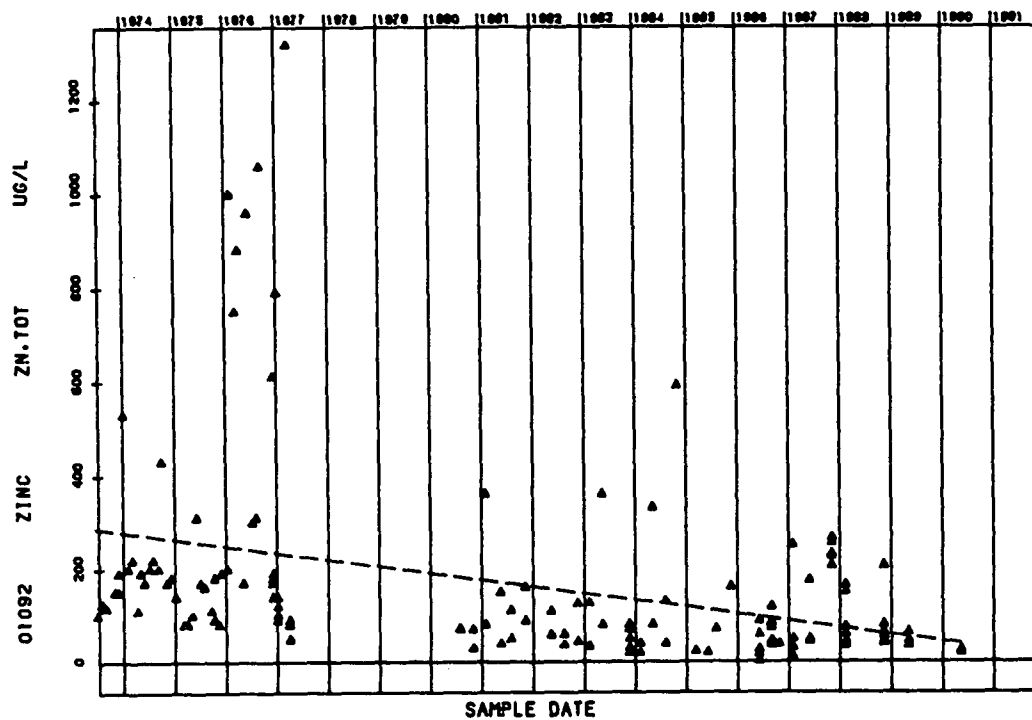
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HOUSTON SHIP CHANNEL AT MORGANS POINT



TOTAL ZINC

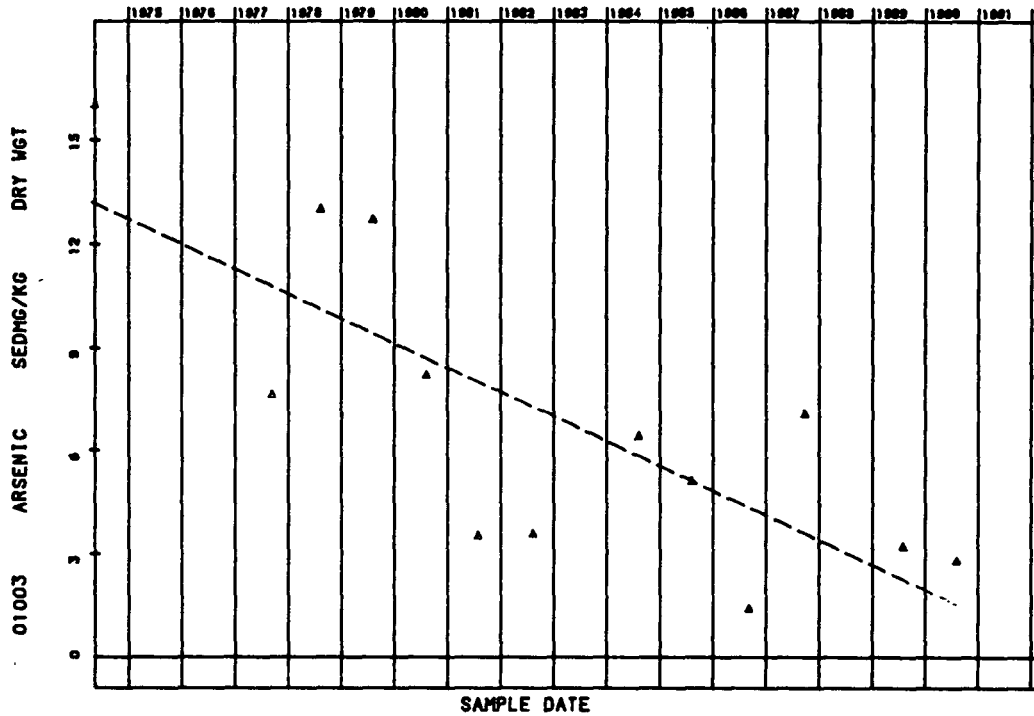
HOUSTON SHIP CHANNEL - OVERALL



ARSENIC IN BOTTOM SEDIMENT

10070800

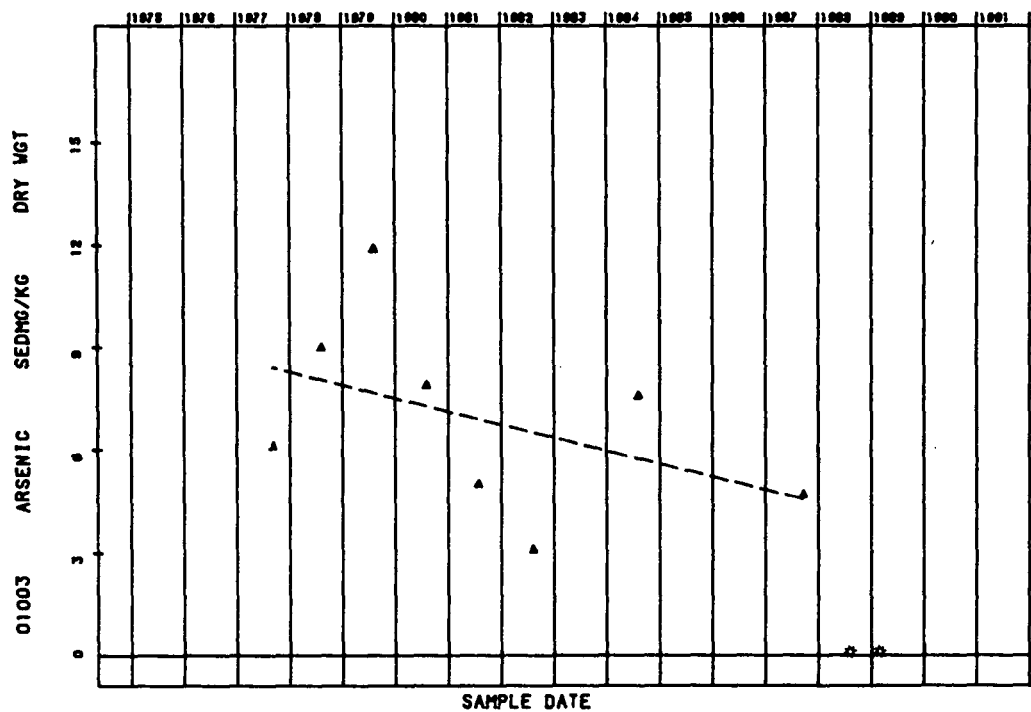
HOUSTON SHIP CHANNEL AT TURNING BASIN



ARSENIC IN BOTTOM SEDIMENT

10060200

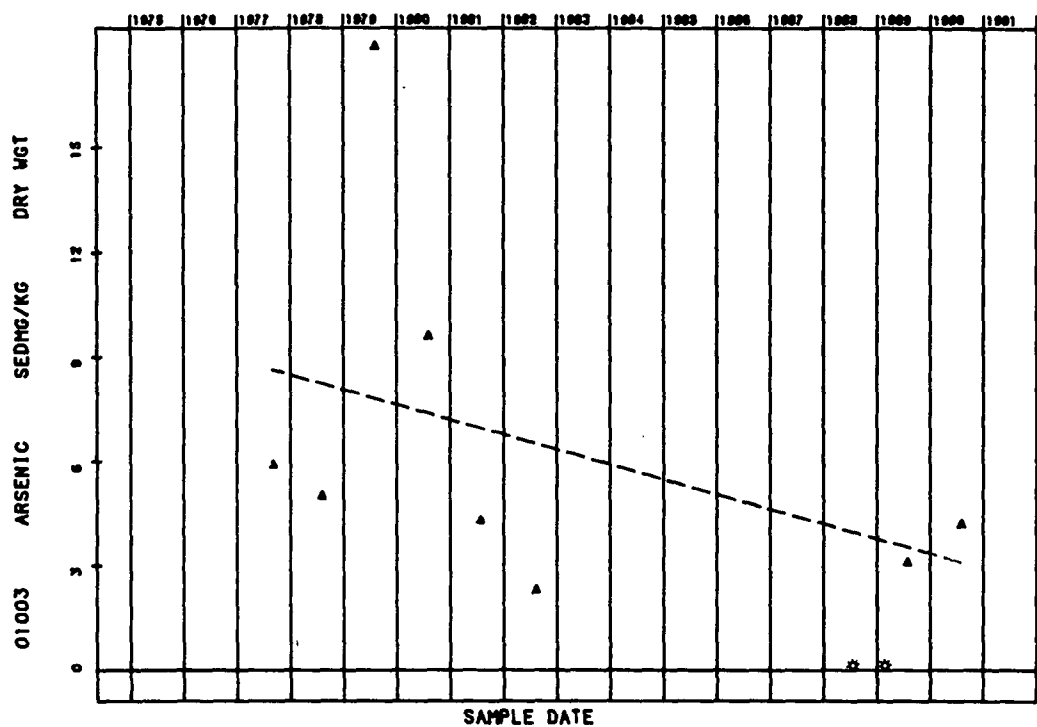
HOUSTON SHIP CHANNEL AT GREENS BAYOU



ARSENIC IN BOTTOM SEDIMENT

10060100

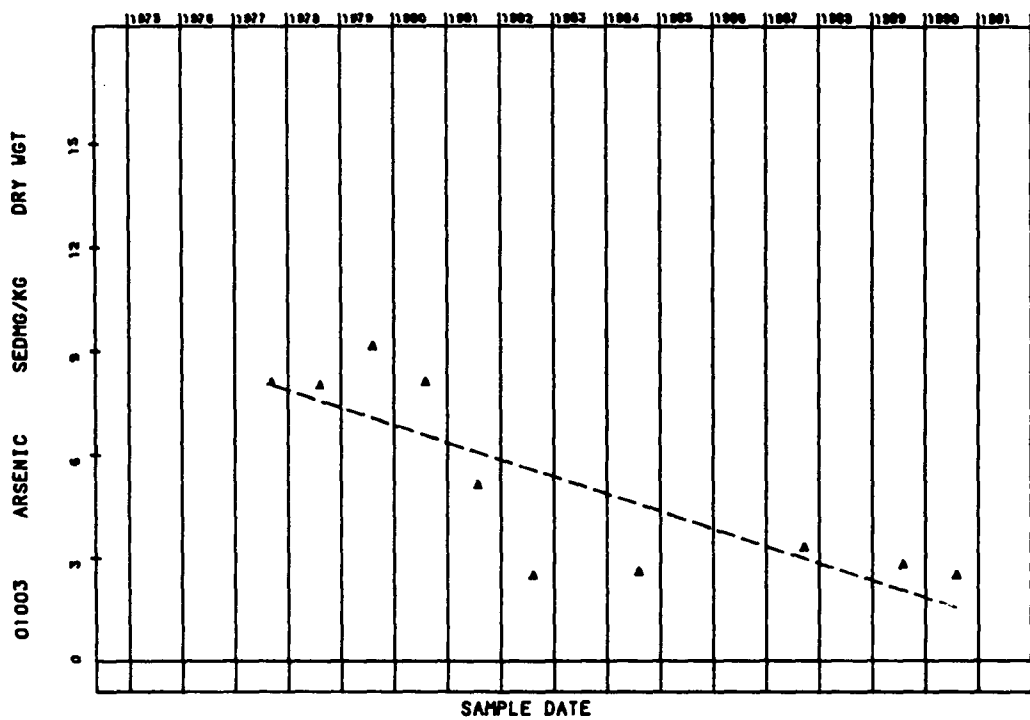
HOUSTON SHIP CHANNEL AT SJ MONUMENT



ARSENIC IN BOTTOM SEDIMENT

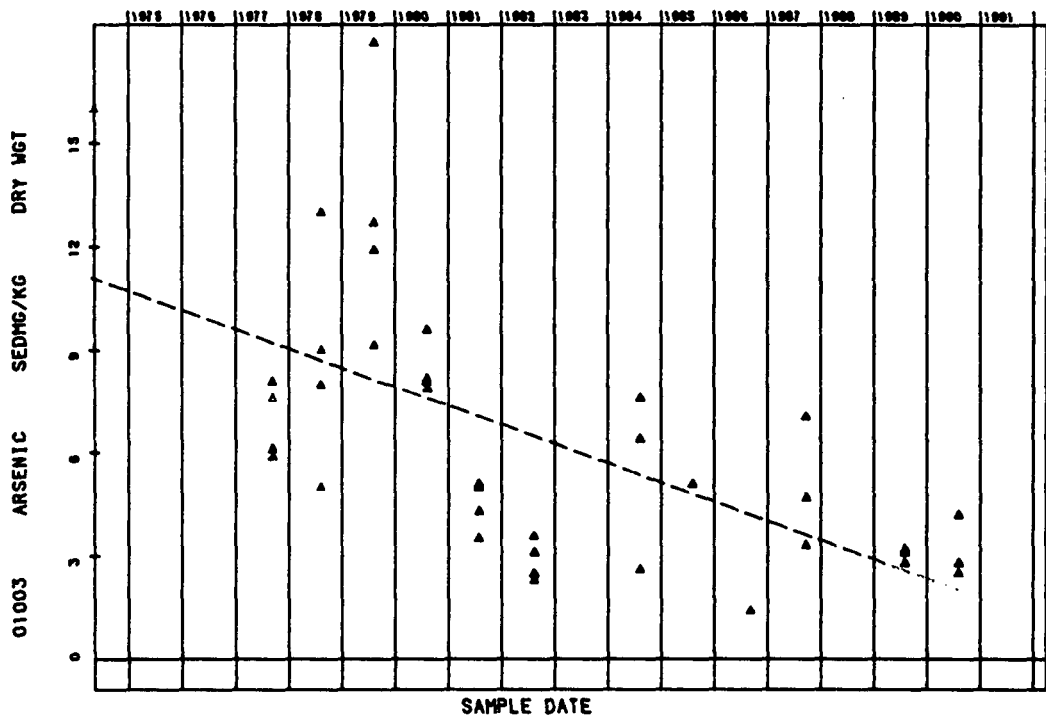
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HOUSTON SHIP CHANNEL AT MORGANS POINT



ARSENIC IN BOTTOM SEDIMENT

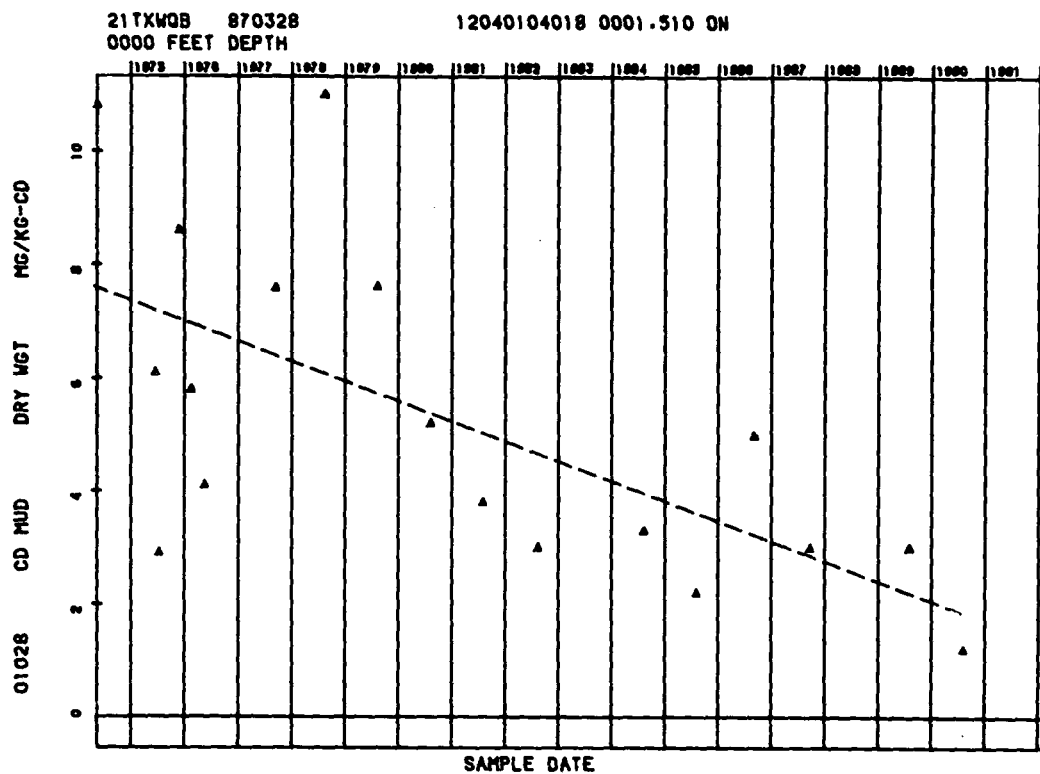
HOUSTON SHIP CHANNEL - OVERALL



CADMIUM IN BOTTOM SEDIMENT

10070800

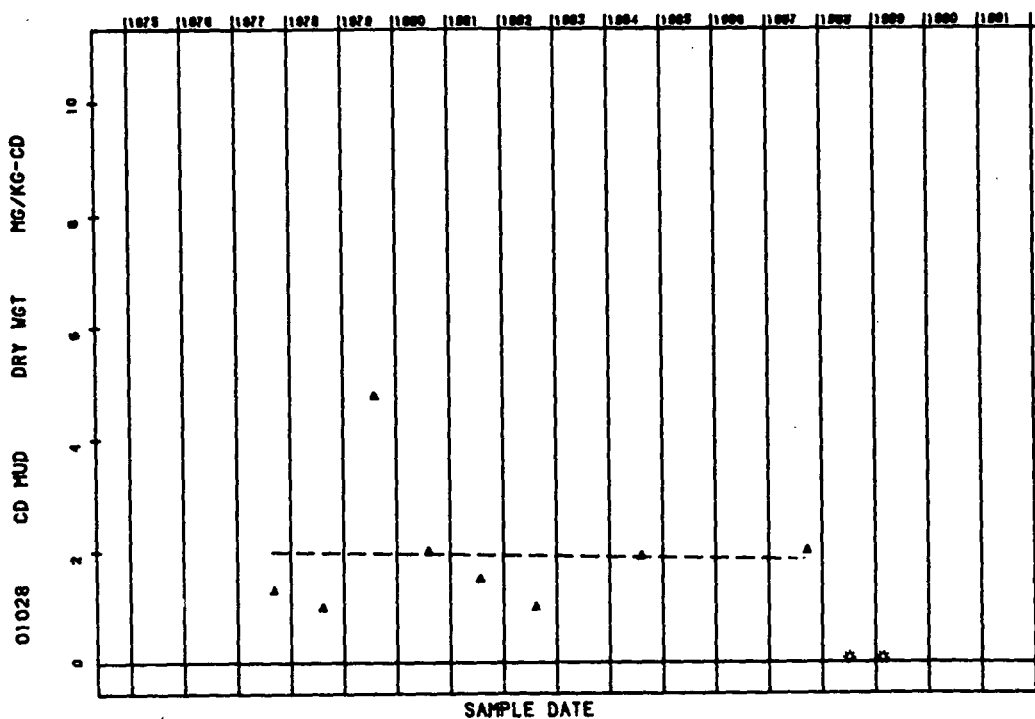
HOUSTON SHIP CHANNEL AT TURNING BASIN



CADMIUM IN BOTTOM SEDIMENT

10060200

HOUSTON SHIP CHANNEL AT GREENS BAYOU

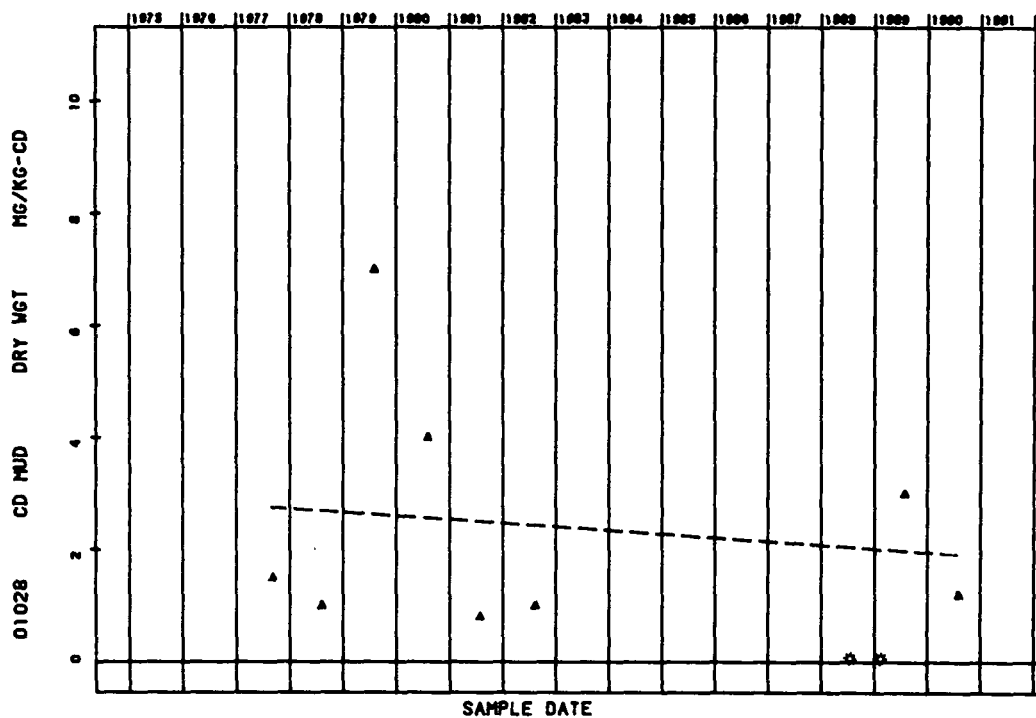


*- DATA FROM EPA/TWC STUDY

CADMIUM IN BOTTOM SEDIMENT

10060100

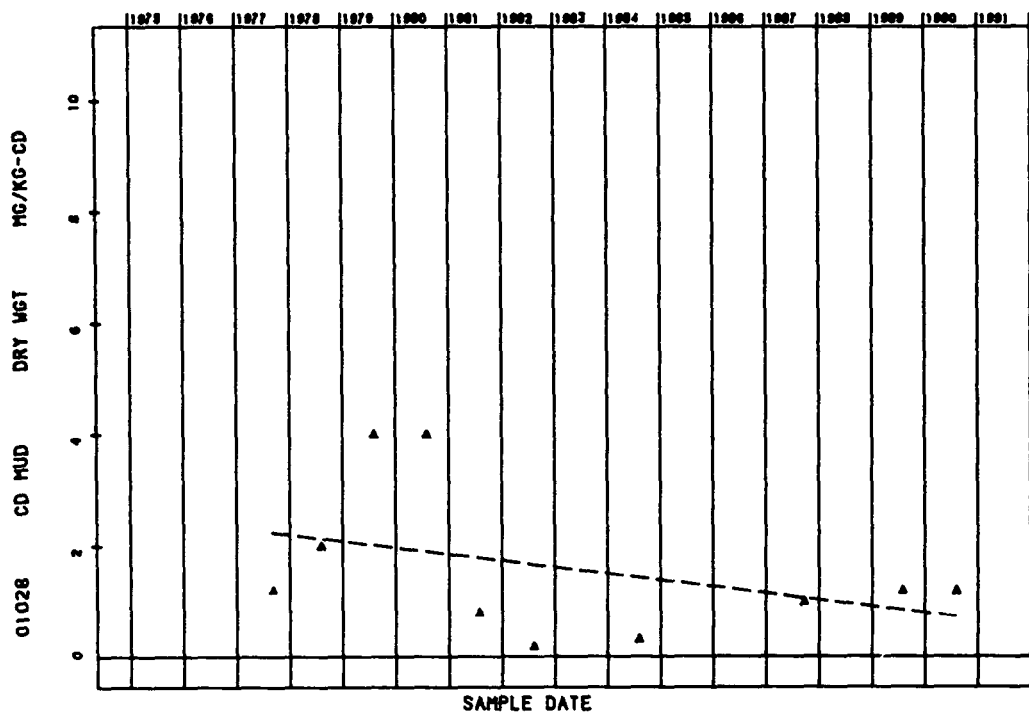
HOUSTON SHIP CHANNEL AT SJ MONUMENT



CADMIUM IN BOTTOM SEDIMENT

10050100

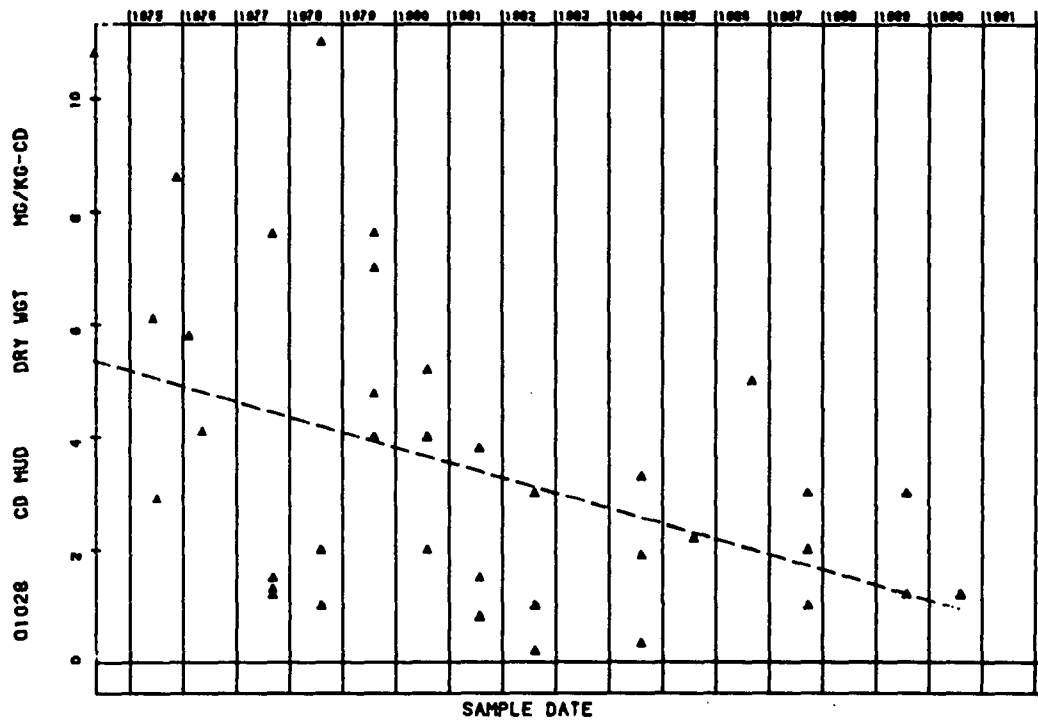
HOUSTON SHIP CHANNEL AT MORGANS POINT



*- DATA FROM EPA/TWC STUDY

CADMIUM IN BOTTOM SEDIMENT

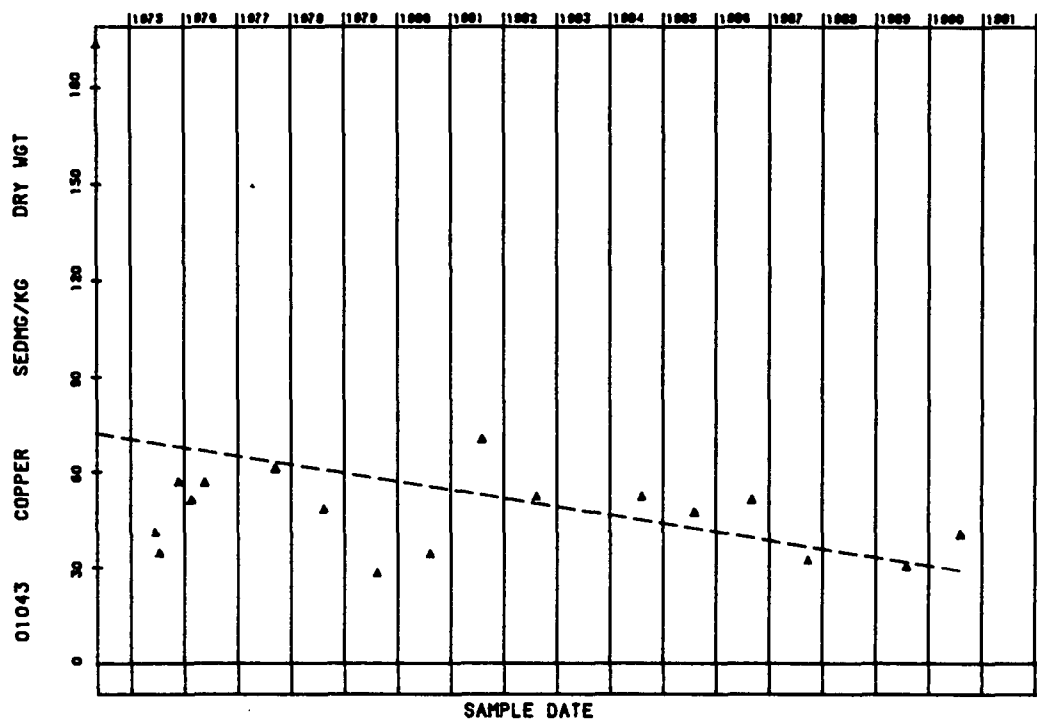
HOUSTON SHIP CHANNEL - OVERALL



COPPER IN BOTTOM SEDIMENT

10070800

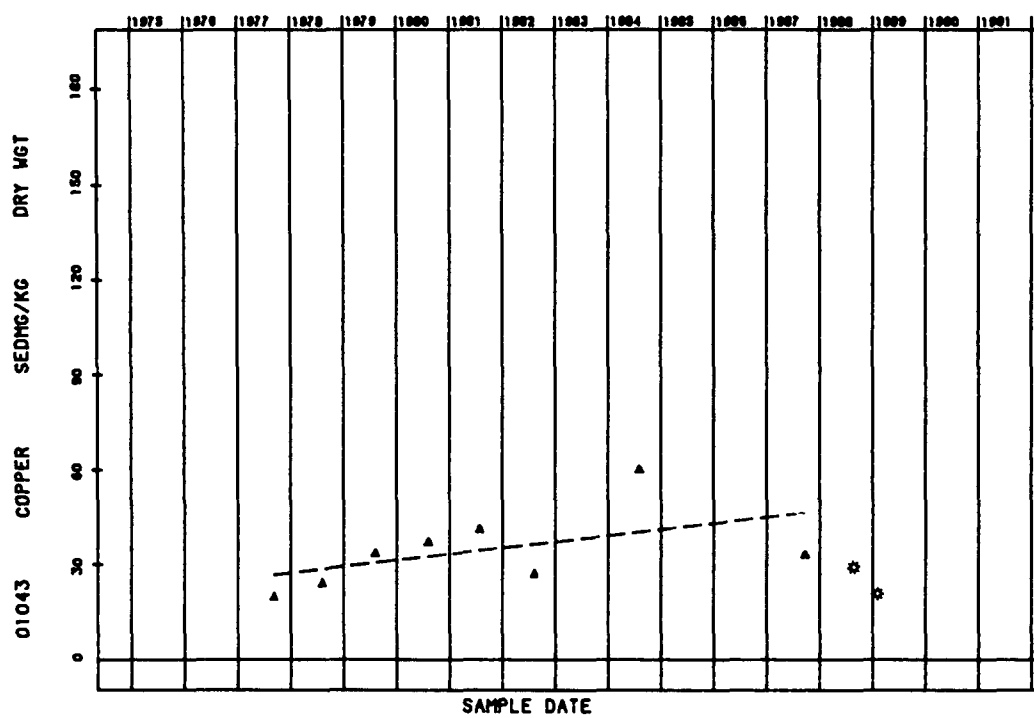
HOUSTON SHIP CHANNEL AT TURNING BASIN



COPPER IN BOTTOM SEDIMENT

10060200

HOUSTON SHIP CHANNEL AT GREENS BAYOU

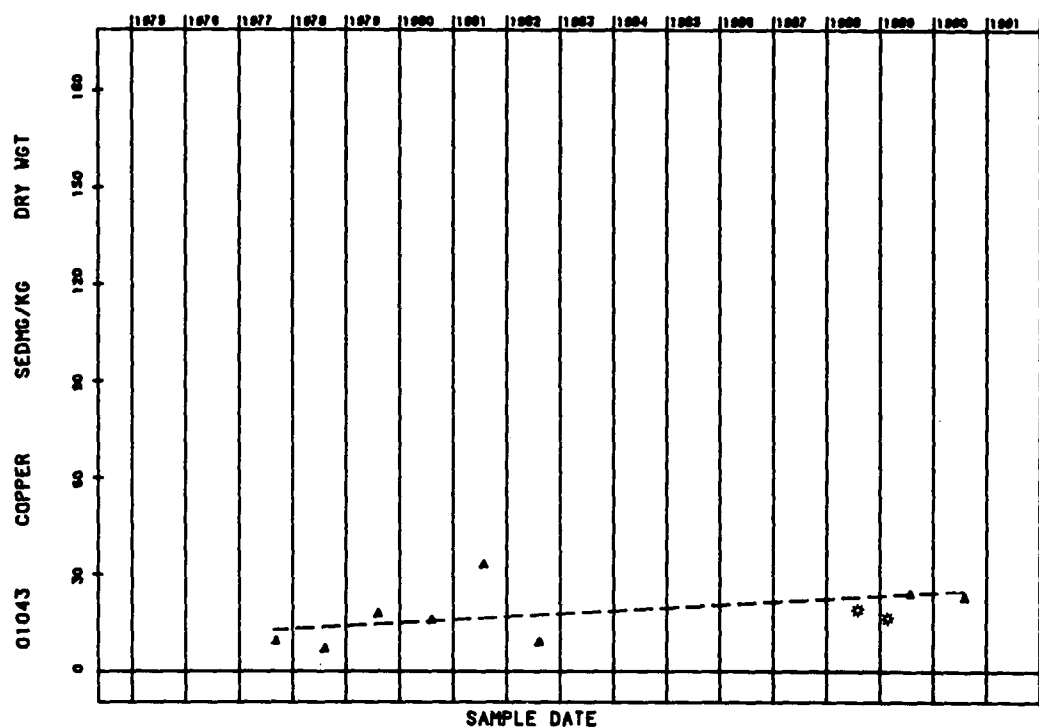


*- DATA FROM EPA/TWC STUDY

COPPER IN BOTTOM SEDIMENT

10060100

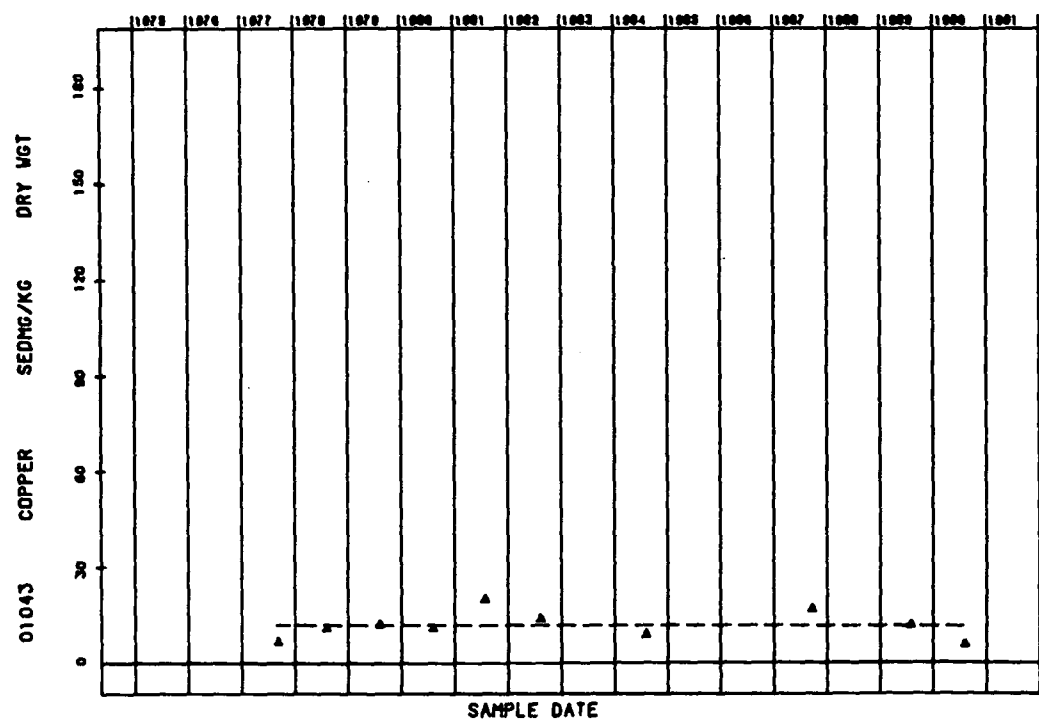
HOUSTON SHIP CHANNEL AT SJ MONUMENT



COPPER IN BOTTOM SEDIMENT

10050100

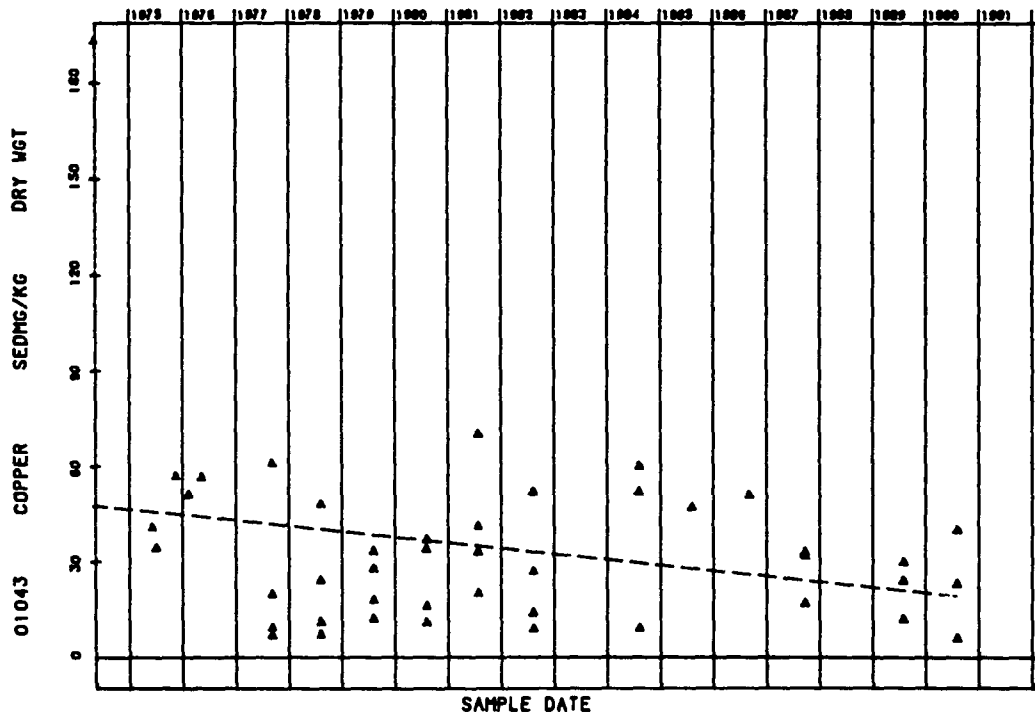
HOUSTON SHIP CHANNEL AT MORGANS POINT



*- DATA FROM EPA/TWC STUDY

COPPER IN BOTTOM SEDIMENT

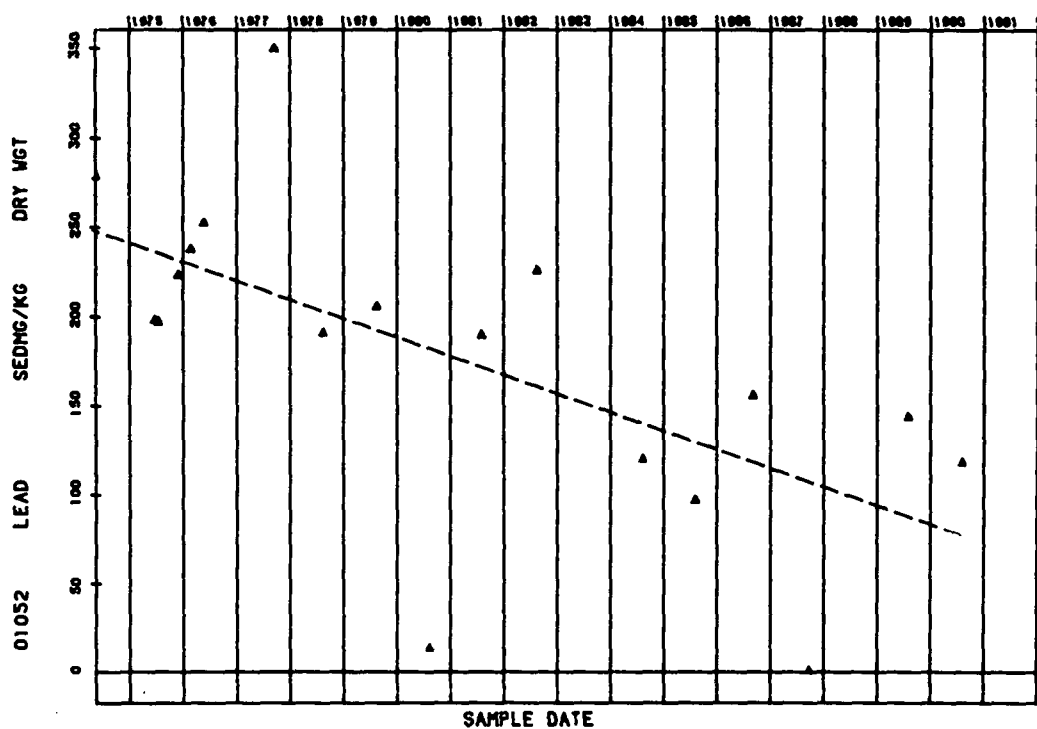
HOUSTON SHIP CHANNEL - OVERALL



LEAD IN BOTTOM SEDIMENT

10070800

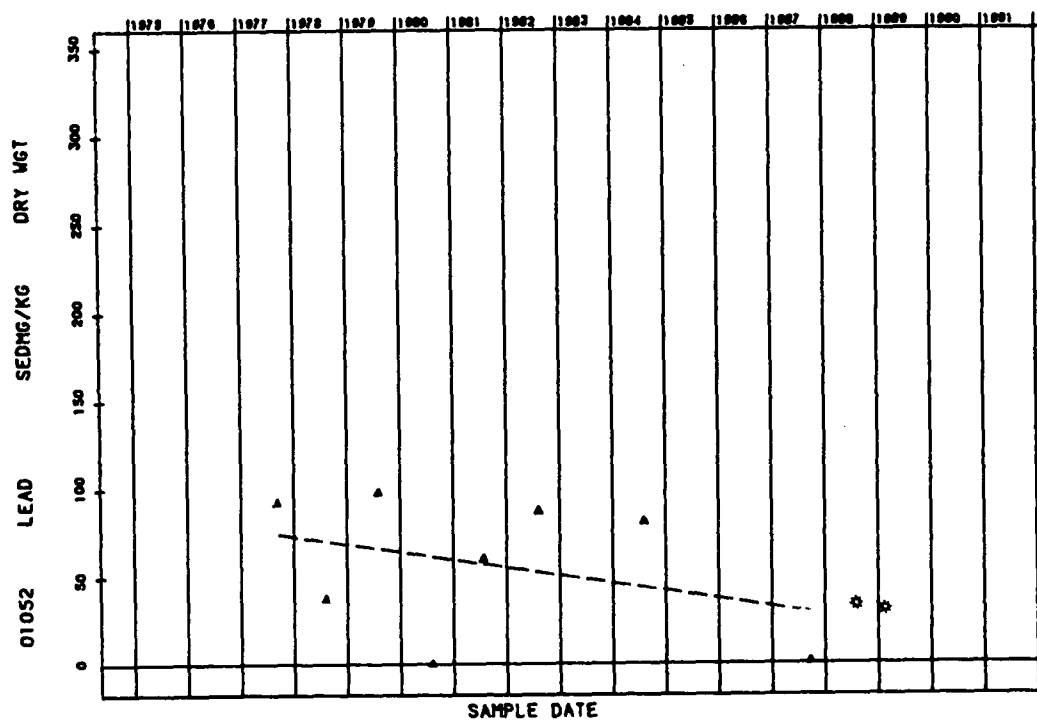
HOUSTON SHIP CHANNEL AT TURNING BASIN



LEAD IN BOTTOM SEDIMENT

10060200

HOUSTON SHIP CHANNEL AT GREENS BAYOU

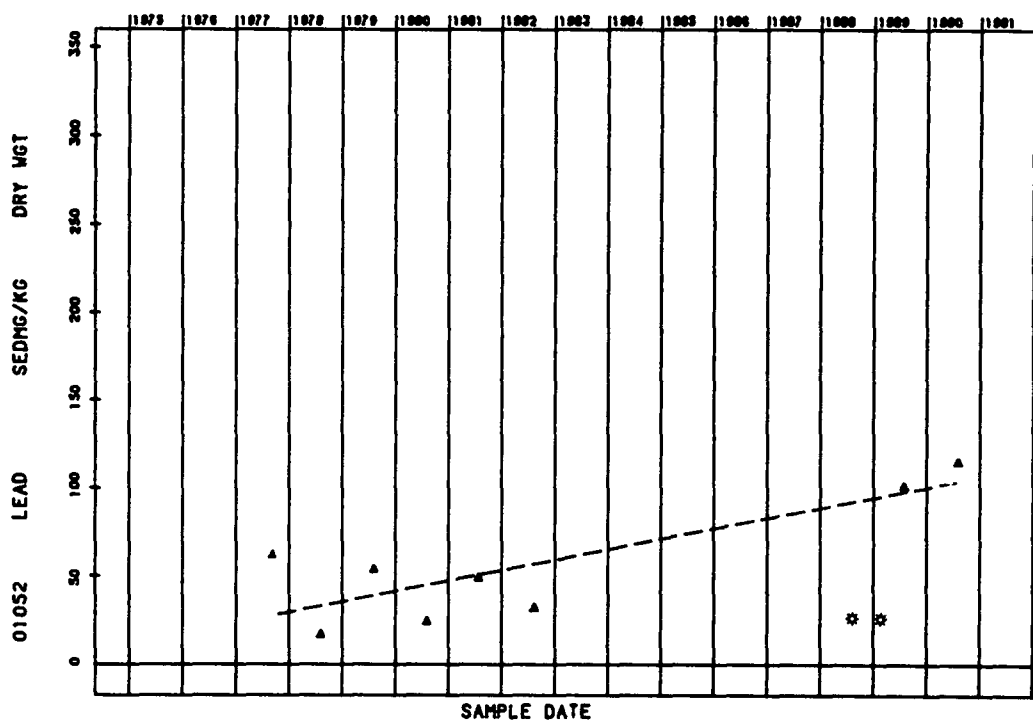


*- DATA FROM EPA/TWC STUDY

LEAD IN BOTTOM SEDIMENT

10060100

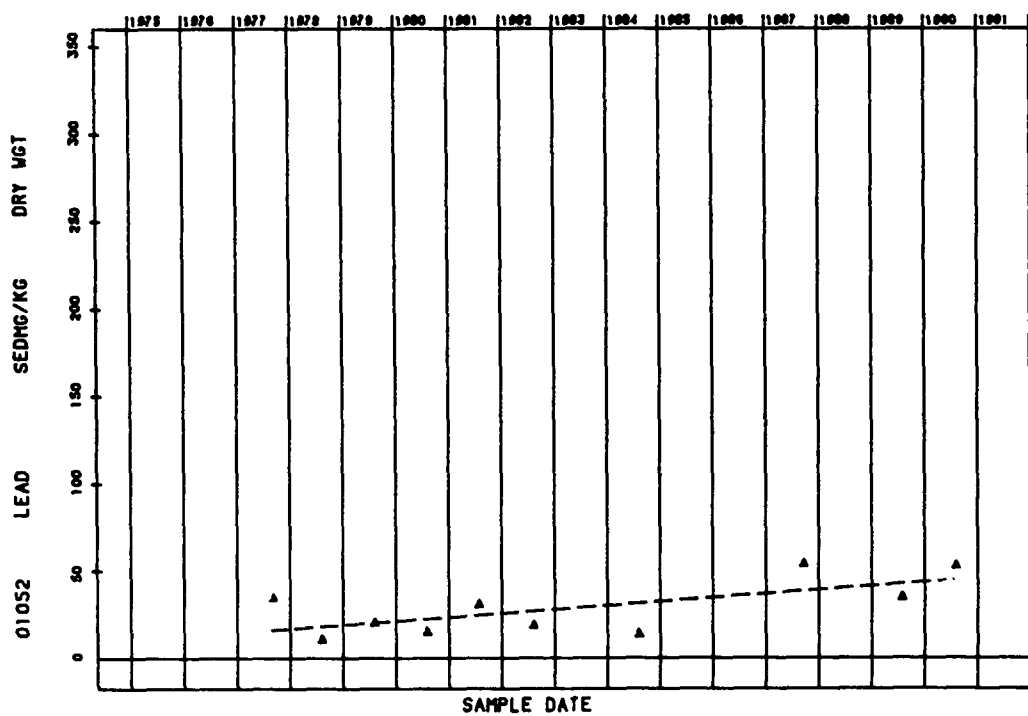
HOUSTON SHIP CHANNEL AT SJ MONUMENT



LEAD IN BOTTOM SEDIMENT

10050100

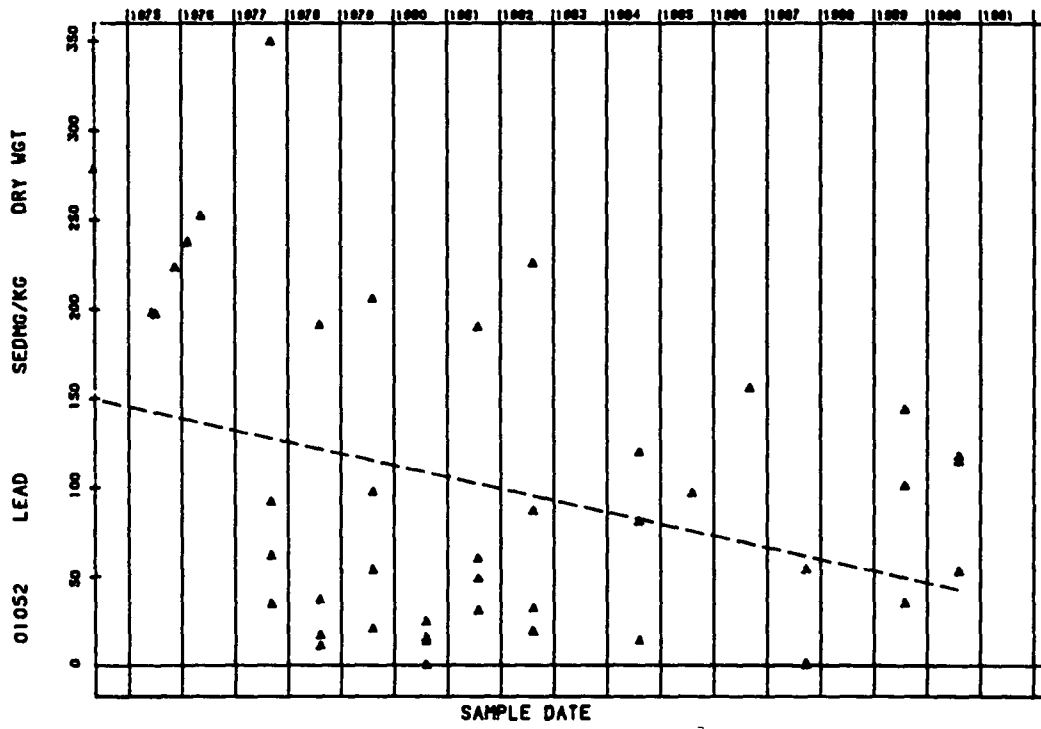
HOUSTON SHIP CHANNEL AT MORGANS POINT



*- DATA FROM EPA/TWC STUDY

LEAD IN BOTTOM SEDIMENT

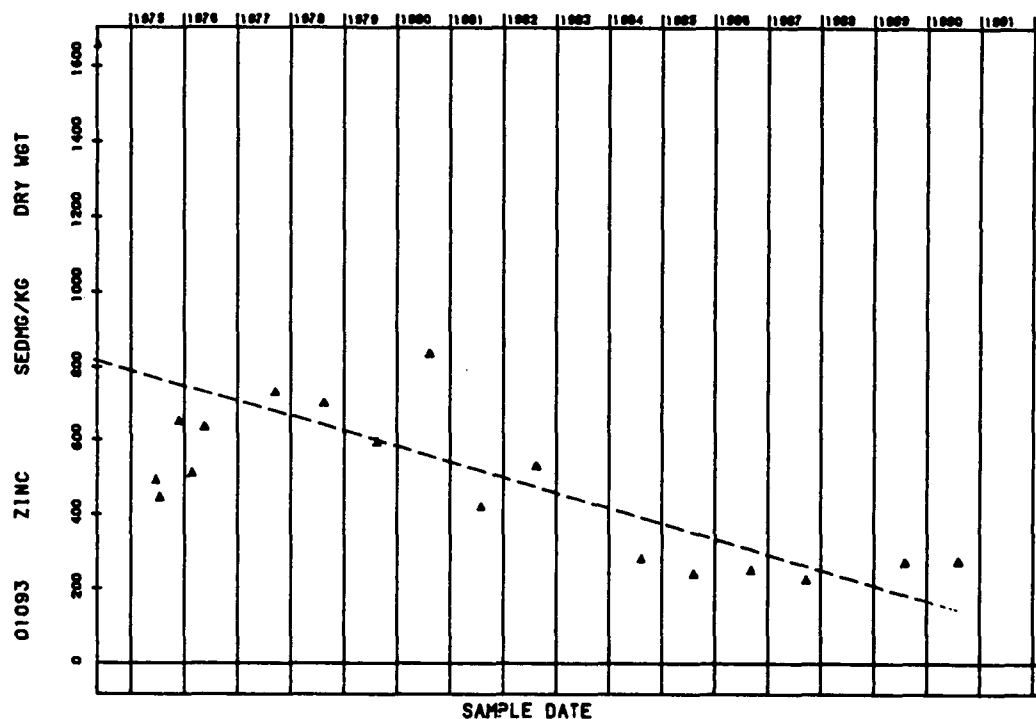
HOUSTON SHIP CHANNEL - OVERALL



ZINC IN BOTTOM SEDIMENT

10070800

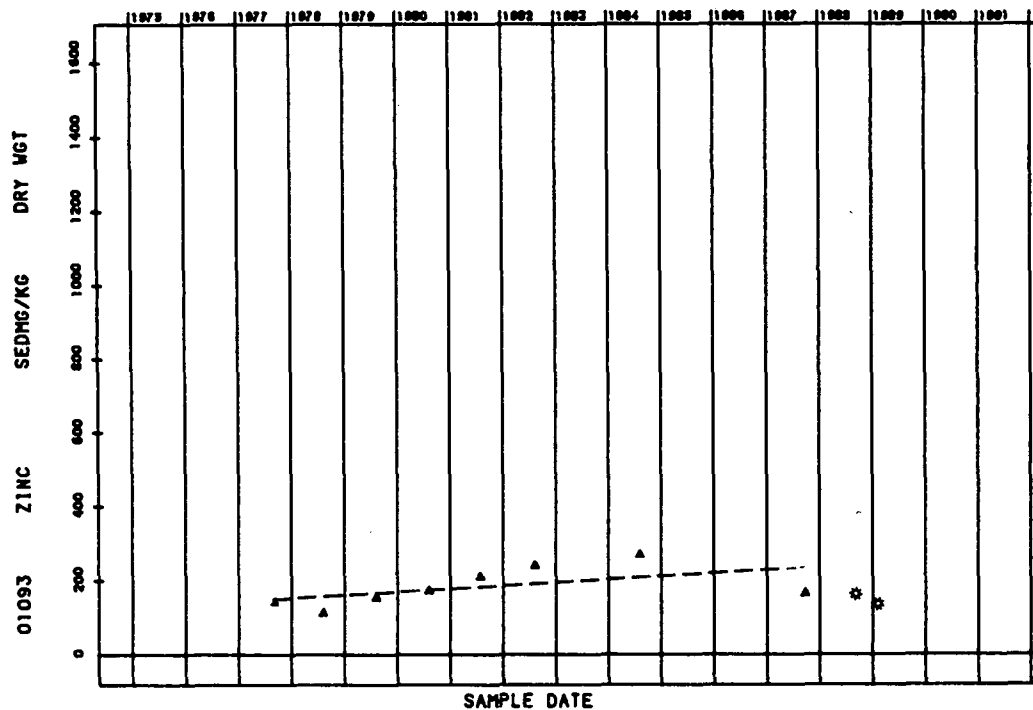
HOUSTON SHIP CHANNEL AT TURNING BASIN



ZINC IN BOTTOM SEDIMENT

10060200

HOUSTON SHIP CHANNEL AT GREENS BAYOU

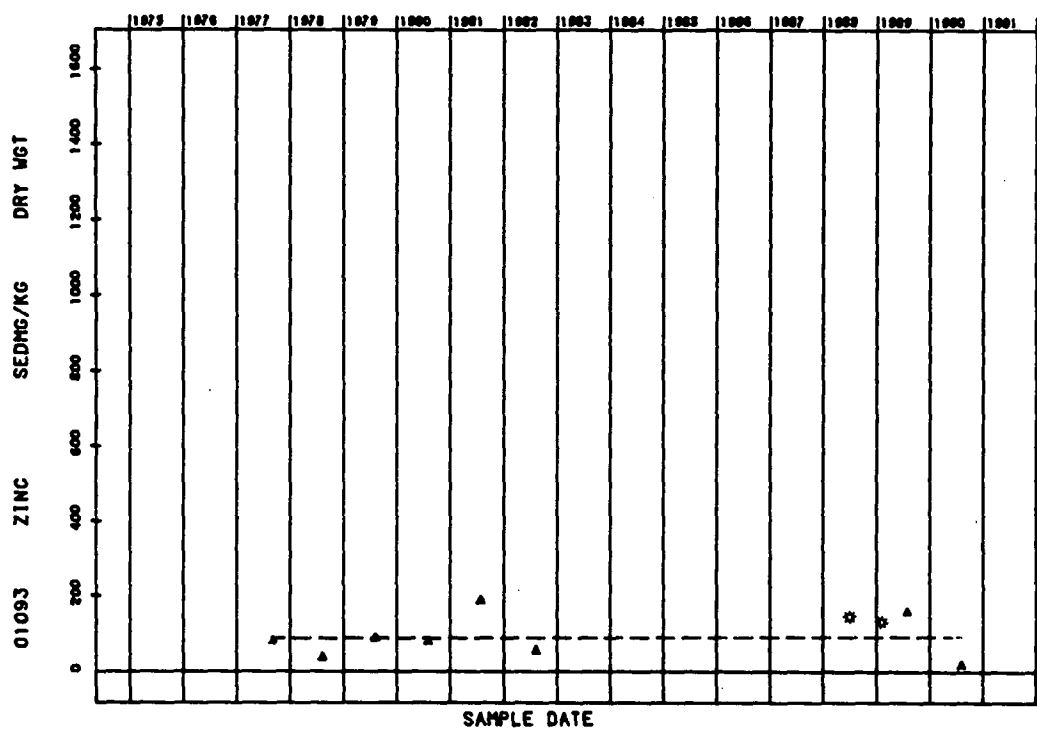


*- DATA FROM EPA/TWC STUDY

ZINC IN BOTTOM SEDIMENT

10060100

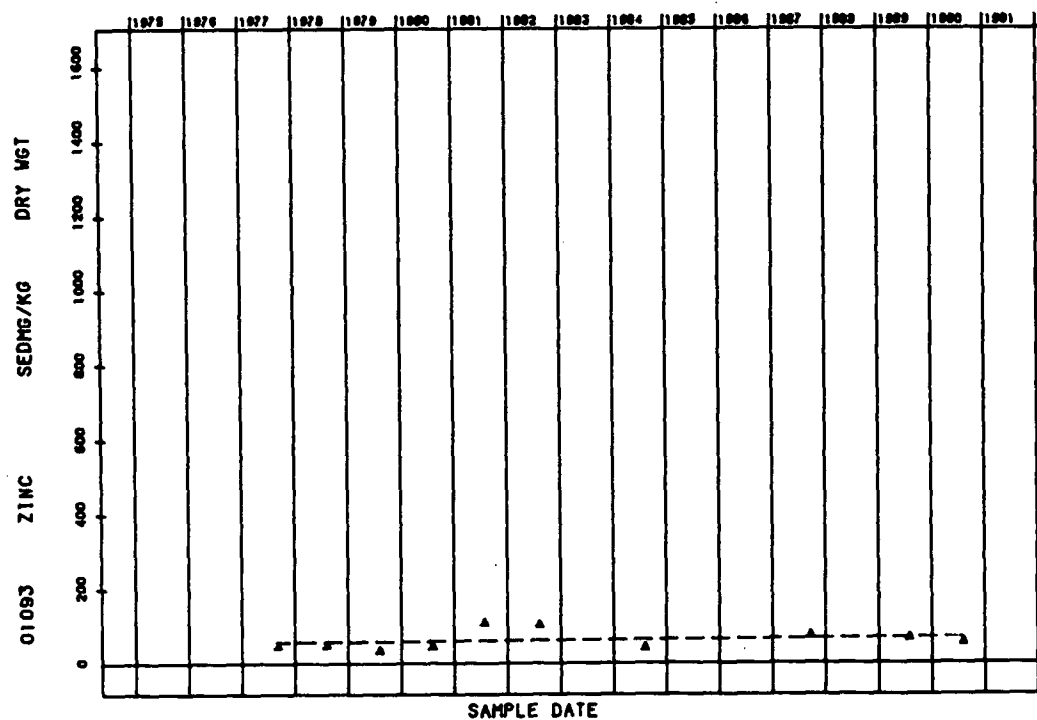
HOUSTON SHIP CHANNEL AT SJ MONUMENT



ZINC IN BOTTOM SEDIMENT

10050100

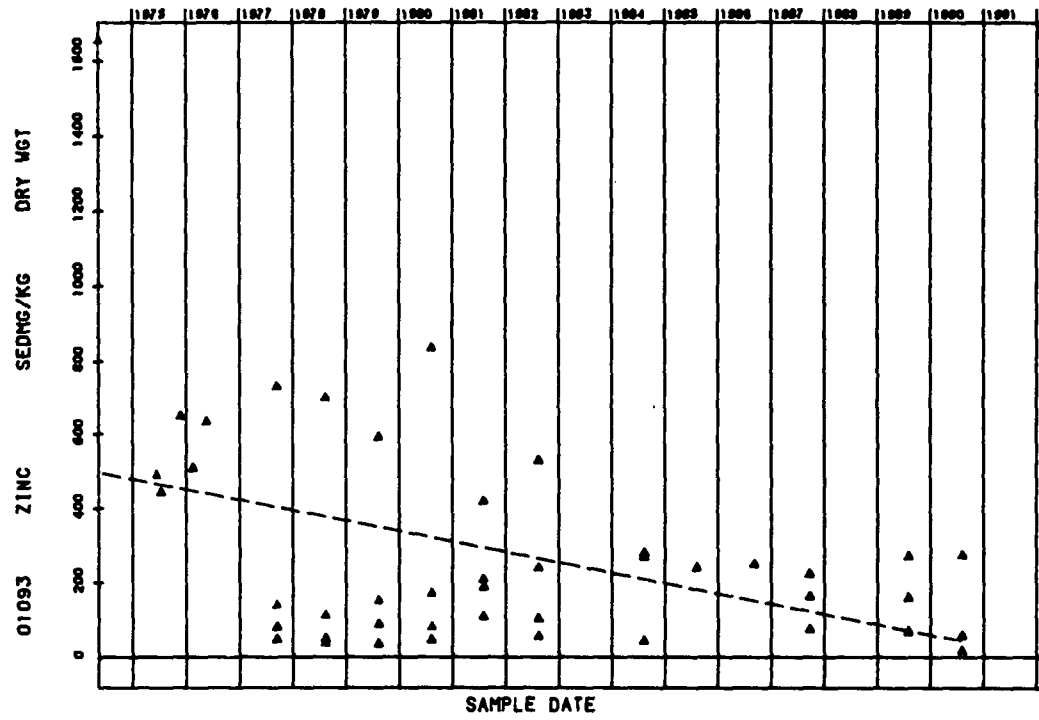
HOUSTON SHIP CHANNEL AT MORGANS POINT



*- DATA FROM EPA/TWC STUDY

ZINC IN BOTTOM SEDIMENT

HOUSTON SHIP CHANNEL - OVERALL



PCBs IN BOTTOM SEDIMENT

HOUSTON SHIP CHANNEL - OVERALL

