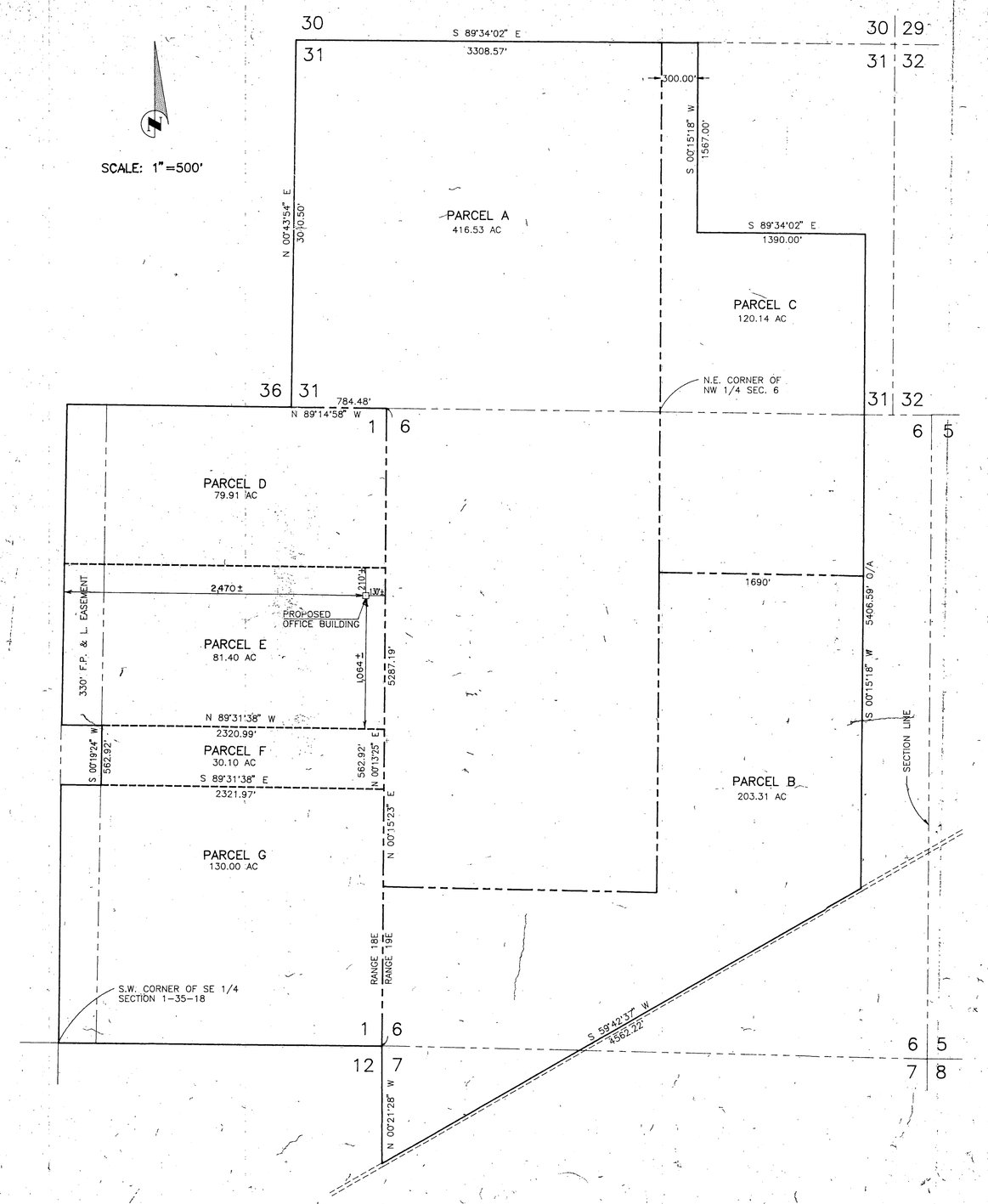
1566691 (1)



PARCEL "A" (FORMERLY PARCEL A AND B) DESCRIPTION: AS FURNISHED

THE SOUTH 1/2 OF THE N.W. 1/4 AND THE NORTH 1/2 OF THE S.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST.

ALSO:

THE NORTH 1/2 OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST, AND ALL OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST; LESS THAT PART OF SECTION 31, LYING EAST OF A LINE WHICH IS THE NORTHERLY EXTENSION OF THE EAST LINE OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST.

PARCEL "B" DESCRIPTION: AS FURNISHED

THAT PART OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST, LYING NORTHERLY OF THE NORTHERLY LINE OF THAT CERTAIN GAS LINE EASEMENT RUNNING DIAGONALLY THROUGH THE PROPERTY; LESS THE SOUTH 1/2 OF THE N.W. 1/4 AND THE NORTH 1/2 OF THE S.W. 1/4 OF SAID SECTION 6; ALSO LESS THAT PART OF SECTION 6, LYING NORTHERLY OF A LINE WHICH IS THE EASTERLY EXTENSION OF THE NORTH LINE OF THE SOUTH 1/2 OF THE N.W. 1/4 OF SAID SECTION 6; ALSO LESS THAT PART OF SECTION 6 LYING EASTERLY OF A LINE WHICH IS PARALLEL WITH AND 1690 FEET EASTERLY OF THE EAST LINE OF THE N.W. 1/4 OF SAID SECTION 6 AND ANY NORTHERLY OR SOUTHERLY EXTENSION THEREOF.

ALSO:

THAT PART OF SECTION 7, TOWNSHIP 35 SOUTH, RANGE 19 EAST LYING NORTHERLY OF THE NORTHERLY LINE OF THAT CERTAIN GAS LINE EASEMENT RUNNING DIAGONALLY THROUGH THE PROPERTY.

PARCEL "C" DESCRIPTION: AS FURNISHED

THAT PART OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST, MORE FULLY DESCRIBED AS BEING BOUNDED ON THE NORTH BY THE NORTH LINE OF SAID SECTION 6, AND BOUNDED ON THE WEST BY THE EAST LINE OF THE N.W. 1/4 OF SAID SECTION 6, AND BOUNDED ON THE SOUTH BY THE EASTERLY EXTENSION OF THE NORTH LINE OF THE SOUTH 1/2 OF THE N.W. 1/4 OF SAID SECTION 6, AND BOUNDED ON THE EAST BY A LINE WHICH LIES 1690 FEET EASTERLY OF AND PARALLEL WITH THE EAST LINE OF THE N.W. 1/4 OF SAID SECTION 6.

ALSO:

THAT PART OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST, MORE FULLY DESCRIBED AS BEING BOUNDED ON THE NORTH BY THE NORTH LINE OF SAID SECTION 31, AND BOUNDED ON THE WEST BY A LINE WHICH IS THE NORTHERLY EXTENSION OF THE EAST LINE OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST, AND BOUNDED ON THE SOUTH BY A LINE WHICH LIES 1567 FEET SOUTHERLY OF AND PARALLEL WITH THE NORTH LINE OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST AND BOUNDED ON THE EAST BY A LINE, WHICH LIES 300 FEET EASTERLY OF AND PARALLEL WITH THE NORTHERLY EXTENSION OF THE EAST LINE OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST.

ALSO:

THAT PART OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST, MORE FULLY DESCRIBED AS BEING BOUNDED ON THE NORTH BY A LINE WHICH LIES 1567 FEET SOUTHERLY OF AND PARALLEL WITH THE NORTH LINE OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST AND BOUNDED ON THE WEST BY THE NORTHERLY EXTENSION OF THE EAST LINE OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST, AND BOUNDED ON THE SOUTH BY THE SOUTH LINE OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST, (ALSO BEING THE NORTH LINE OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST) AND BOUNDED ON THE EAST BY A LINE WHICH LIES 1690 FEET EAST OF AND PARALLEL WITH THE NORTHERLY EXTENSION OF THE EAST LINE OF THE N.W. 1/4 OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST.

ALL OF THE ABOVE BEING AND LYING IN MANATEE COUNTY, FLORIDA

PARCELS A, B, AND C, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEING AT THE S.W. CORNER OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST; THENCE N 00°43'54" E, ALONG WEST BOUNDARY OF SAID SECTION 31, A DISTANCE OF 3040.50 FEET TO THE N.W. CORNER OF SAID SECTION 31; THENCE S 89°34'02" E, ALONG NORTH BOUNDARY OF SAID SECTION 31, A DISTANCE OF 3308.57 FEET; THENCE S 00°15'18" W, A DISTANCE OF 1567.00 FEET; THENCE S 89°34'02" E, A DISTANCE OF 1390.00 FEET; THENCE S 00°15'18" W, DISTANCE OF 5406.59 FEET TO THE NORTH RIGHT OF WAY LINE OF A GAS LINE EASEMENT; THENCE S 59°42'37" W, ALONG SAID RIGHT OF WAY LINE, A DISTANCE OF 4562.22 FEET TO THE WEST BOUNDARY OF SECTION 7, TOWNSHIP 35 SOUTH, RANGE 19 EAST; THENCE N 00°21'28" W, ALONG SAID WEST BOUNDARY LINE OF SAID SECTION 7, TO THE S.W. CORNER OF SECTION 6, TOWNSHIP 35 SOUTH, RANGE 19 EAST; THENCE N 00°15'23" E, ALONG WEST BOUNDARY OF SAID SECTION 6, A DISTANCE OF 5287.19 FEET TO THE N.W. CORNER OF SAID SECTION 6; THENCE N 89°14'58" W, ALONG SOUTH BOUNDARY OF SECTION 31, TOWNSHIP 34 SOUTH, RANGE 19 EAST, A DISTANCE OF 784.48 FEET TO THE POINT OF BEGINNING. LYING AND BEING IN MANATEE COUNTY, FLORIDA.

SUBJECT TO PERTINENT EASEMENTS, RIGHTS OF WAY, AND RESTRICTIONS OF RECORD.

CONTAINING 740.20 ACRES, MORE OR LESS.

PARCEL "D" (FORMERLY ADAMS PROPERTY)

THE NORTH HALF (N 1/2) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 1, TOWNSHIP 35 SOUTH, RANGE 18 EAST, MANATEE COUNTY, FLORIDA, LESS ANY PORTION CONVEYED TO EAST AND WEST COAST RAILWAY IN DEED BOOK 61, PAGE 547, PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA; SUBJECT TO RIGHT-OF-WAY AGREEMENT RECORDED IN OFFICIAL RECORDS BOOK 485, PAGE 250, AND SUBJECT TO EASEMENT TO FLORIDA POWER & LIGHT COMPANY RECORDED IN OFFICIAL RECORDS BOOK 981, PAGE 3999, BOTH OF PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA.

PARCEL "E" (OLD GUN CLUB)

S 1/2 OF NE 1/4 SUBJECT TO EASEMENT AS DESCRIBED IN OFFICIAL RECORDS BOOK 485, PAGE 242, PRMCF P-1-1 PI#001464400009.

PARCEL "F" (KNOWN AS WWTP)

THE NORTH 30 ACRES OF THE SE 1/4 OF SECTION 1, TWP 35 S., RANGE 18 E., MANATEE COUNTY, FLORIDA, LESS THE WEST 330 FEET OF FLORIDA POWER AND LIGHT COMPANY EASEMENT, MORE PARTICULARLY DESCRIBED AS FOLLOWS: BEGIN AT THE NE CORNER OF THE SE 1/4 OF SECTION 1, TWP 35 S., RGE 18 E; THENCE N 89°31'38" W, ALONG THE NORTH LINE OF SAID SECTION 2320.99 FEET TO THE INTERSECTION WITH THE EAST LINE OF A 330' WIDE FLORIDA POWER AND LIGHT COMPANY EASEMENT; THENCE S 00°19'24" W, ALONG SAID EAST EASEMENT LINE, PARALLEL TO THE WEST LINE OF SAID SE 1/4 AND 330.0 FEET EASTERLY THEREFROM, 562.92 FEET; THENCE S 89°31'38" E, PARALLEL TO THE NORTH LINE OF SAID SE 1/4, 2321.97 FEET TO THE INTERSECTION WITH THE EAST LINE OF SAID SE 1/4; THENCE N 00°13'25" E, ALONG SAID EAST LINE, 562.92 FEET THE P.O.B., BEING AND LYING IN THE SE 1/4 OF SECTION 1, TWP. 35S, RGE 18E, MANATEE COUNTY, FLORIDA. CONTAINING 30.00 ACRES

PARCEL "G" (UNDEVELOPED PROPERTY)

THE SE 1/4 OF SECTION 1, TOWNSHIP 35 SOUTH, RANGE 18 EAST, LESS 30 ACRES PREVIOUSLY CONVEYED TO MANATEE COUNTY, RECORDED IN OFFICIAL RECORD BOOK 947, PAGE 1386, OF THE PUBLIC RECORDS OF MANATEE COUNTY, FLORIDA, SUBJECT TO FLORIDA POWER AND LIGHT COMPANY EASEMENT AS DESCRIBED IN OFFICIAL RECORD BOOK 1006, PAGE 2513; AND SUBJECT TO UTILITY EASEMENT AS DESCRIBED IN OFFICIAL RECORD BOOK 1029, PAGE 3064.

D. E. R.

JUN 26 1990

SOUTHWEST DISTRICT
TAMPA

THIS SKETCH IS A TRUE REPRESENTATION OF THE ABOVE LEGAL DECRIPTION OF LANDS OF MANATEE COUNTY IN THE VICINITY OF THE LENA ROAD LANDFILL, AND IS NOT A SURVEY. THE ABOVE DESCRIPTIONS ARE FROM OFFICIAL RECORDS ON FILE IN MANATEE COUNTY, FLORIDA, AS OF MAY 11, 1990.

John G. Parker

JOHN G. PARKER,

P.L.S. #4502, STATE OF FLORIDA
MAY 14, 1990

PROPOSED OFFICE BUILDING
LOCATION ADDED- 5/15/90
JGP

SKETCH OF LEGAL DESCRIPTIONS FOR MANATEE COUNTY PROPERTIES (LENA ROAD LANDFILL AREA)

DESIGNED R.T.H. CHECKED J.G.P. DATE 5/90 SCALE 1"=500'

DRAWN V.M. COMP JOB NO. FILE NO. SHEET OF

T. R. HALL
FLORIDA CERTIFICATE NO. 2440
STATE OF FLORIDA
REGISTERED ENGINEER

AF 44943

LEGEND

A: GENERAL AGRICULTURE

A - 1: SUBURBAN AGRICULTURE

RSF - (1, 2, 3, 4.5) RESIDENTAL SINGLE FAMILY DISTRICT

GC : GENERAL COMMERCIAL

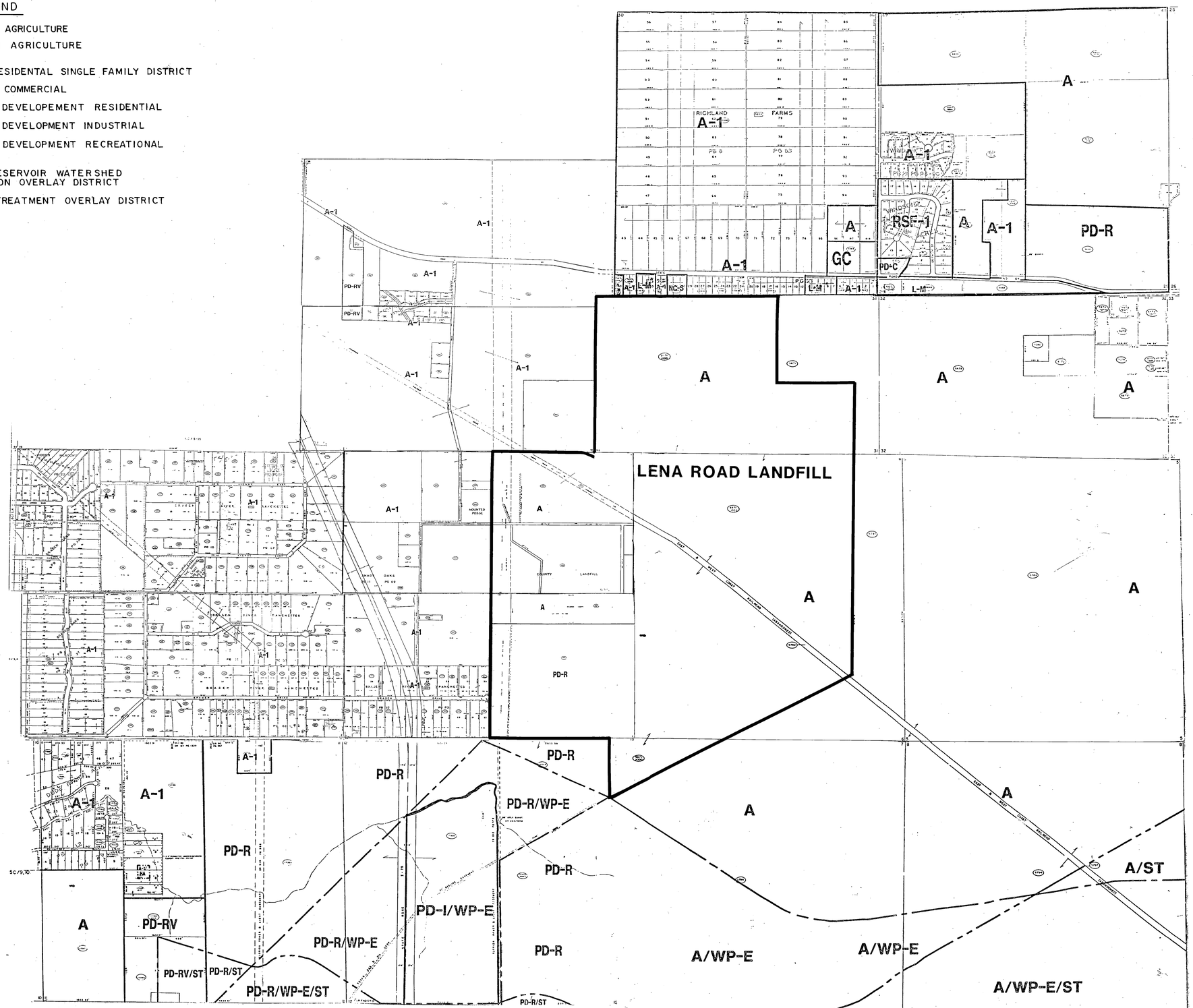
PDR: PLANNED DEVELOPEMENT RESIDENTIAL

PDI: PLANNED DEVELOPMENT INDUSTRIAL

PDRV: PLANNED DEVELOPMENT RECREATIONAL VEHICLE

WPE: EVERS RESERVOIR WATERSHED PROTECTION OVERLAY DISTRICT

ST: SPECIAL TREATMENT OVERLAY DISTRICT



D.E.R.
JUN 26 1992
SOUTHWEST DISTRICT
TAMPA

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

LENA ROAD LANDFILL
ZONING & LAND USE PLAN
485-4615-534

REVISION		DATE
	BY	DATE
SURVEYED		
DESIGNED		
DRAWN	P.H	1/92
CHECKED		

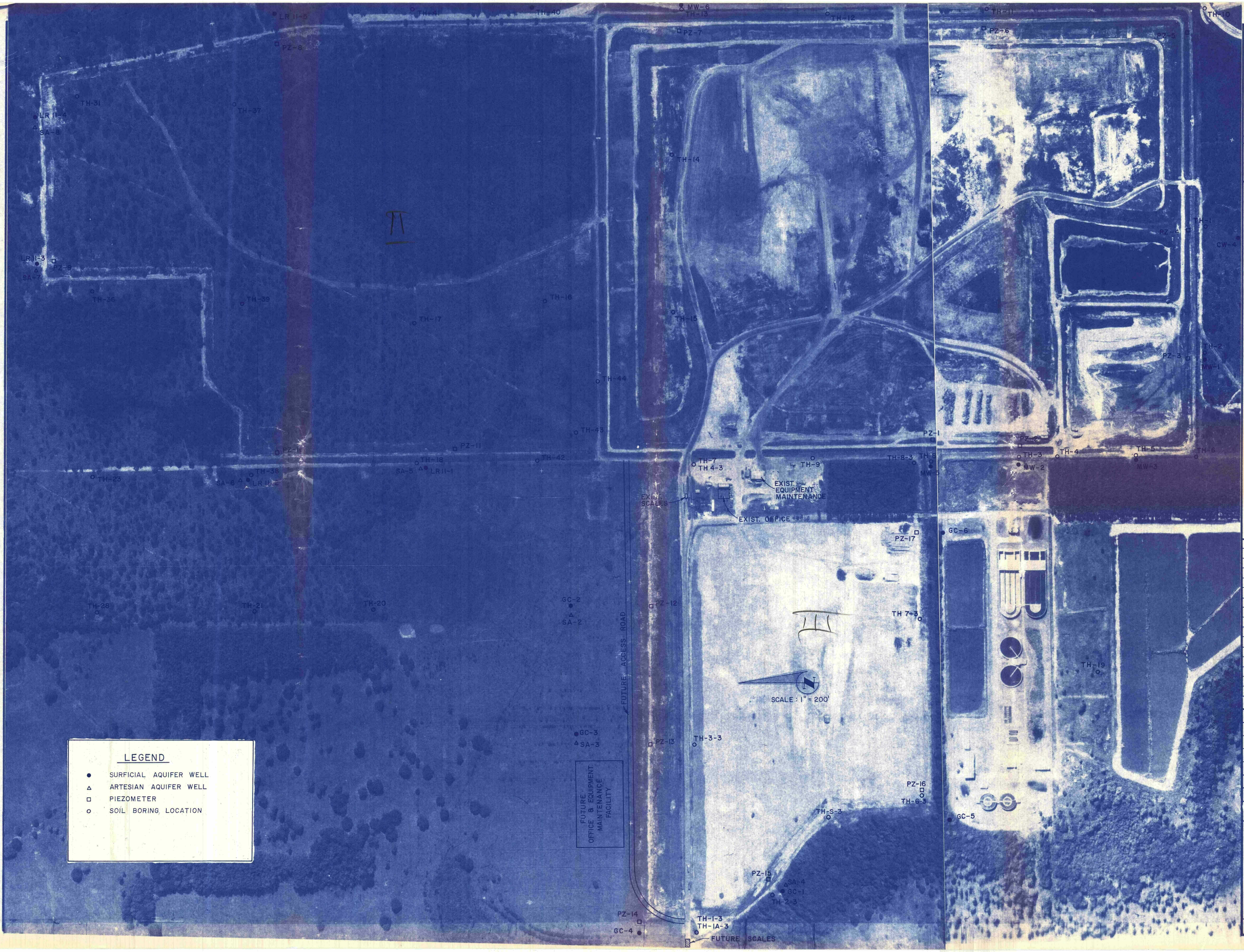
FILE NO.: 485-4615-534

PROJECT NO.:

VERTICAL SCALE:
HORIZONTAL SCALE: 1" = 800'

SEAL

SHEET 10



3

MANATEE COUNTY PUBLIC WORKS DEPARTMENT

LENA ROAD LANDFILL AERIAL VIEW

REVISION		DATE
	BY	DATE
SURVEYED		
DESIGNED		
DRAWN		
CHECKED		

FILE NO.:

PROJECT NO.:

HORIZONTAL SCALE: 1" = 200'

SEAL

SHEET 3 OF 10

AF 44943

(4)

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

LENA ROAD LANDFILL
EXISTING CONTOURS
PROJECT NO. 485-4615-534

MATCH LINE A–A

MATCH LINE A–A

¢ SLURRY WALL

DRAINAGE DITCH

ACCESS CONTROL GATE

EXISTING SCALES

EXISTING OFFICE

EXISTING EQUIPMENT MAINTENANCE BUILDING

EXISTING HAZARDOUS WASTE STORAGE

TIRE STORAGE & SHREDDING AREA

¢ SLURRY WALL

DRAINAGE DITCH

¢ SLURRY WALL

3922.75
3191.73
EL 37.87

37.8 LIFT STATION

DRAINAGE DITCH

DRAINAGE DITCH

¢ SLURRY WALL

OUTFALL STRUCTURE

DRAINAGE DITCH

¢ SLURRY WALL

STORM WATER DETENSION POND (W/S 33.1)

LEACHATE COLLECTION POND

DRAINAGE DITCH

¢ SLURRY WALL

¢ DITCH/POND

¢ DRAINAGE DITCH

OUTFALL STRUCTURE

SCALE: 1"=200'

REVISION	BY	DATE
ADD DRAINAGE		8-91
SURVEYED	I F ROOKS	8-91
DESIGNED	LLP	2-92
DRAWN	MAH	2-92
CHECKED		

FILE NO. :

PROJECT NO. :

VERTICAL SCALE :
HORIZONTAL SCALE :

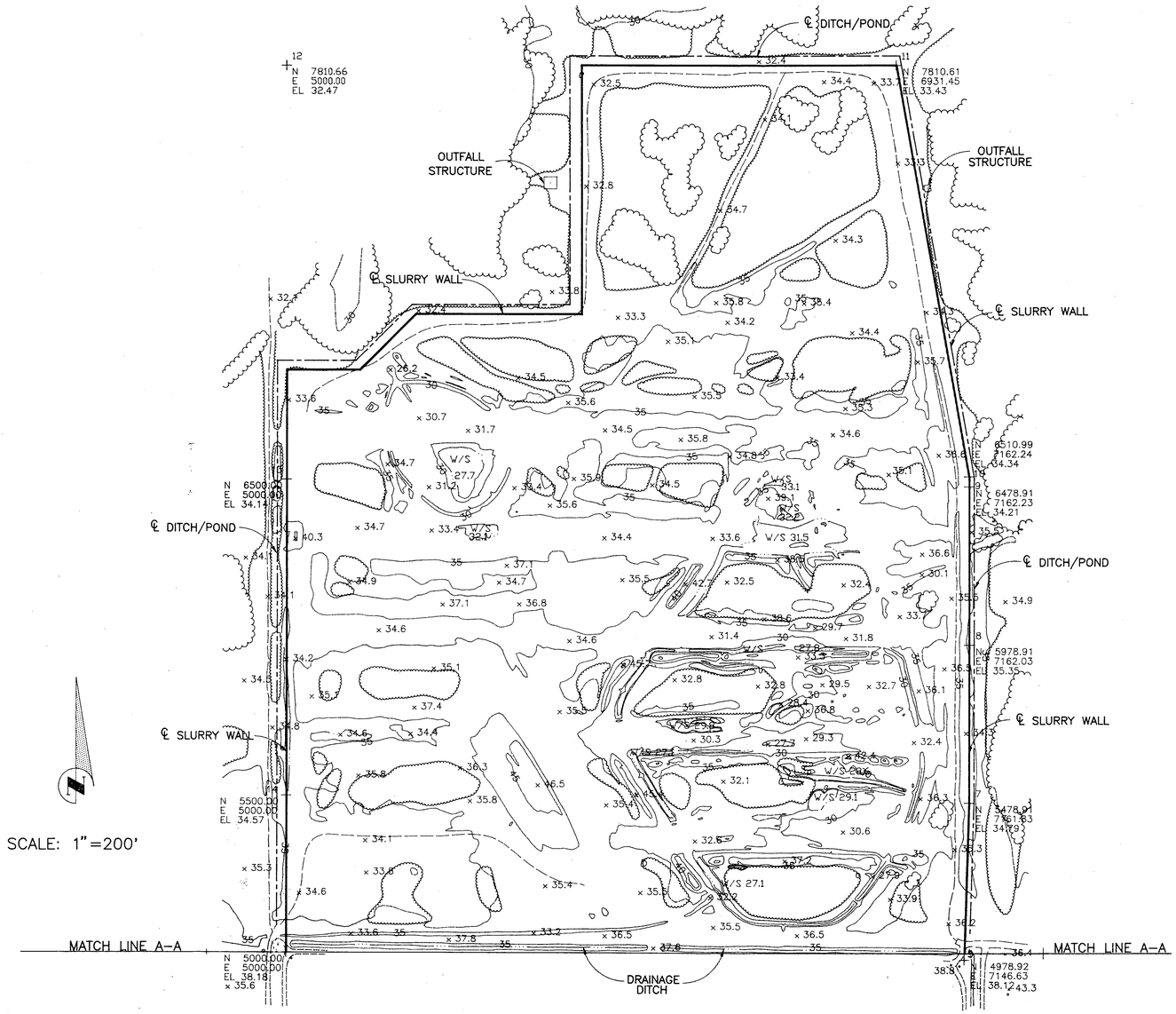
SEAL

R. T. HALL
CERTIFICATE NO. 17437
STATE OF FLORIDA
REGISTERED ENGINEER

SHEET (4) OF (10)

AF 44943

6



MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

LENA ROAD LANDFILL
EXISTING CONTOURS
PROJECT NO. 485-4615-534

REVISION		DATE
ADD DRAINAGE		5-92
	BY	DATE
SURVEYED	I F ROOKS	8-91
DESIGNED	LLP	2-92
DRAWN	MAH	2-92
CHECKED		
FILE NO.:		
PROJECT NO.:		
VERTICAL SCALE: HORIZONTAL SCALE:		

SEAL

R. E. HALL
CERTIFICATE NO. 27177
STATE OF FLORIDA
REGISTERED ENGINEER

SHEET 5 OF 10

AF 44943

(6)

MATCH LINE A–A

MATCH LINE A–A

ACCESS CONTROL GATE

DRAINAGE DITCH

℄ SLURRY WALL

DRAINAGE DITCH

EXISTING SCALES

EXISTING OFFICE

EXISTING EQUIPMENT MAINTENANCE BUILDING

EXISTING HAZARDOUS WASTE STORAGE FACILITY

LIFT STATION

DRAINAGE DITCH

DRAINAGE DITCH

℄ SLURRY WALL

OUTFALL STRUCTURE

DRAINAGE DITCH

℄ SLURRY WALL

STORM WATER POND (W/S 33.1)

LEACHATE COLLECTION POND

TIRE STORAGE & SHREDDING AREA

℄ SLURRY WALL

DRAINAGE DITCH

DRAINAGE DITCH

℄ SLURRY WALL

℄ DRAINAGE DITCH

OUTFALL STRUCTURE

SCALE: 1"=200'

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

LENA ROAD LANDFILL
PROPOSED CONTOURS
PROJECT NO. 485-4615-534

REVISION		DATE
	BY	DATE
SURVEYED	I.F. ROOKS	8/92
DESIGNED	L.L.P.	2/92
DRAWN	M.A.H.	2/92
CHECKED		
FILE NO.:		
PROJECT NO.: 485-4615-534		
VERTICAL SCALE: NOTED HORIZONTAL SCALE:		

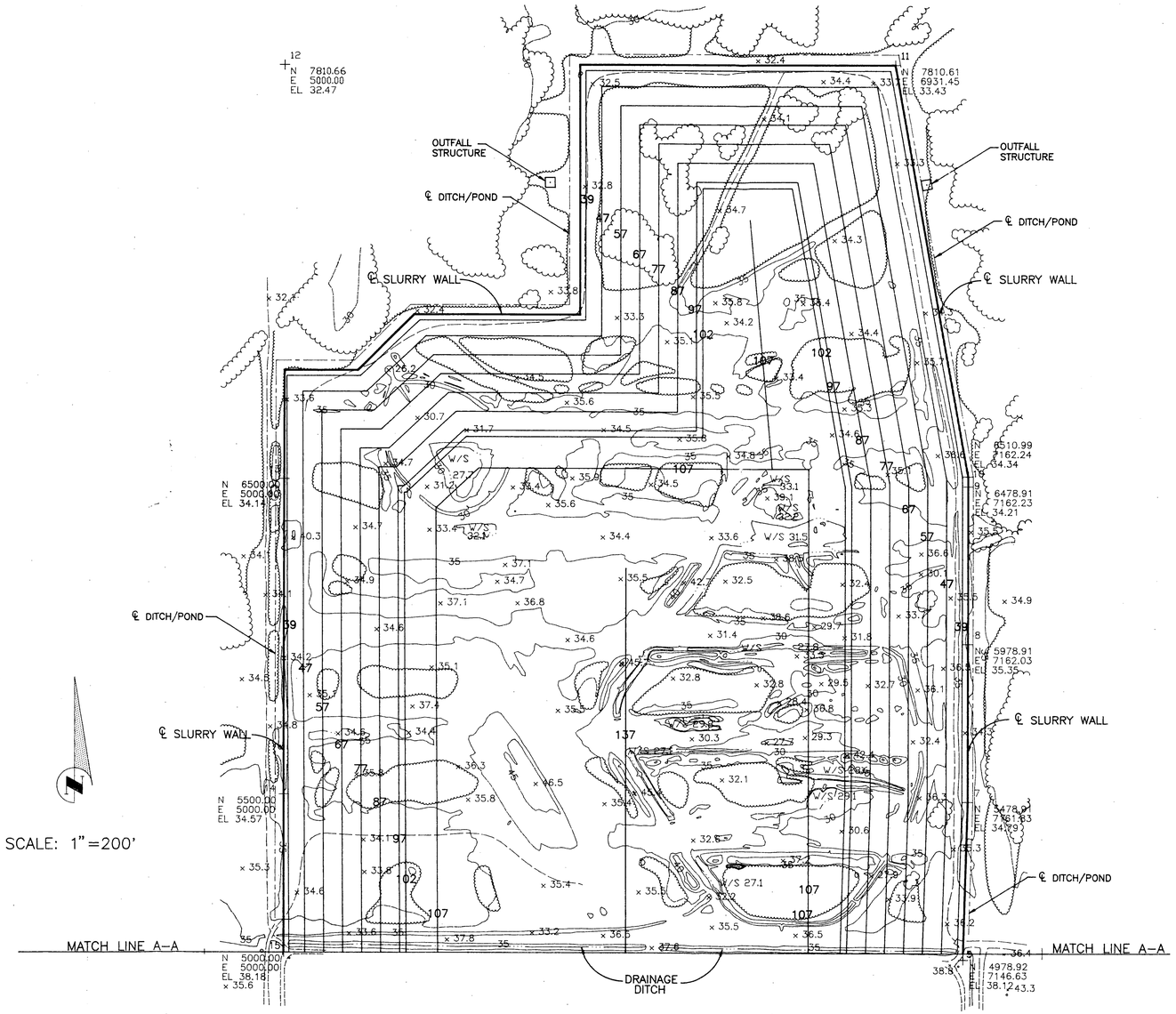
SEAL

T. HALE
No. 43917
STATE OF FLORIDA
REGISTERED ENGINEER

SHEET (6) OF (10)

AF 44943

(7)



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

LENA ROAD LANDFILL
PROPOSED CONTOURS
PROJECT NO. 485-4615-534

REVISION		DATE
	BY	DATE
SURVEYED	I.F. ROOKS	8/91
DESIGNED	L.L.P.	2/92
DRAWN	M.A.H.	2/92
CHECKED		

FILE NO.:

PROJECT NO.: 485-4615-534

VERTICAL SCALE: NOTED
HORIZONTAL SCALE:

SEAL

M. A. HALL
REGISTERED
No. 51847
STATE OF
FLORIDA
REGISTERED ENGINEER

SHEET (7) OF (10)

LENA ROAD
LANDFILL

4615

SCALE: HORZ. 1"=40
VERT. 1"=10'

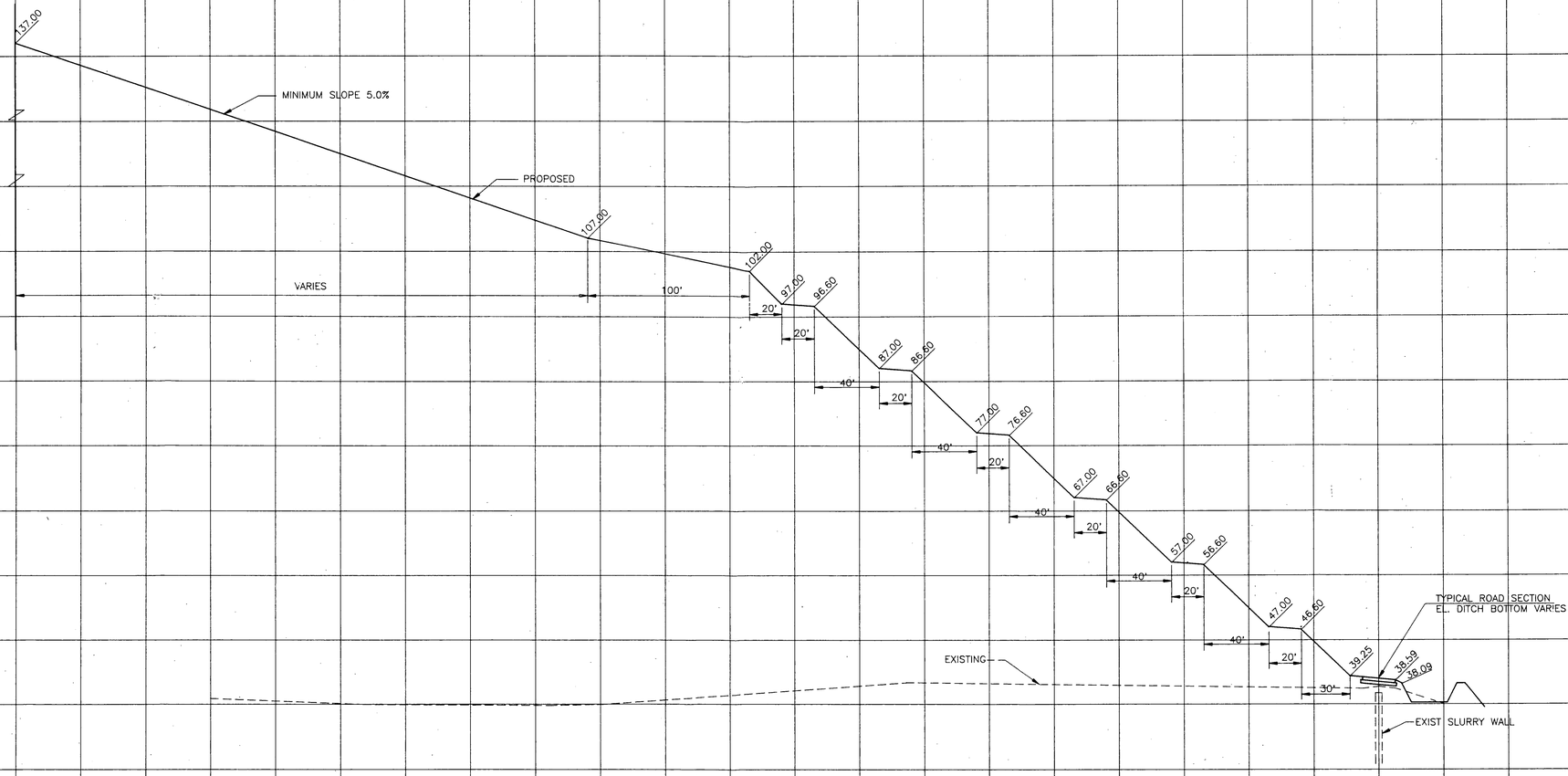
CUT		FILL	
A	V	A	V

NORTH

SOUTH

145
135
125
115
105
95
85
75
65
55
45
35

ATCH LINE B-B



FINAL SURVEY
SURVEYED BY
PLOTTED DATE
NOTEBOOK NO.
AREAS CHECKED

ORIGINAL SURVEY
SURVEYED BY NAME DATE
PLOTTED BY NAME DATE
NOTEBOOK NO.2
AREAS CHECKED

SHEET 8 OF 10 SHEETS

CERTIFICATE NO. 24011
STATE OF FLORIDA
REGISTERED ENGINEER

LENA ROAD LANDFILL

4615

SCALE: HORZ. 1"=40'
VERT. 1"=10'

CUT		FILL	
A	V	A	V

NORTH

SOUTH

145 135 125 115 105 95 85 75 65 55 45 35

MINIMUM SLOPE 5.0%

PROPOSED

EXISTING

MATCH LINE B-B

137.00 107.00 102.00 97.00 96.60 87.00 86.60 77.00 76.60 67.00 66.60 57.00 56.60 47.00 46.60 39.25 39.09 38.59

100' VARIES 20' 20' 40' 20' 40' 20' 40' 20' 40' 20' 40' 20' 40' 30'

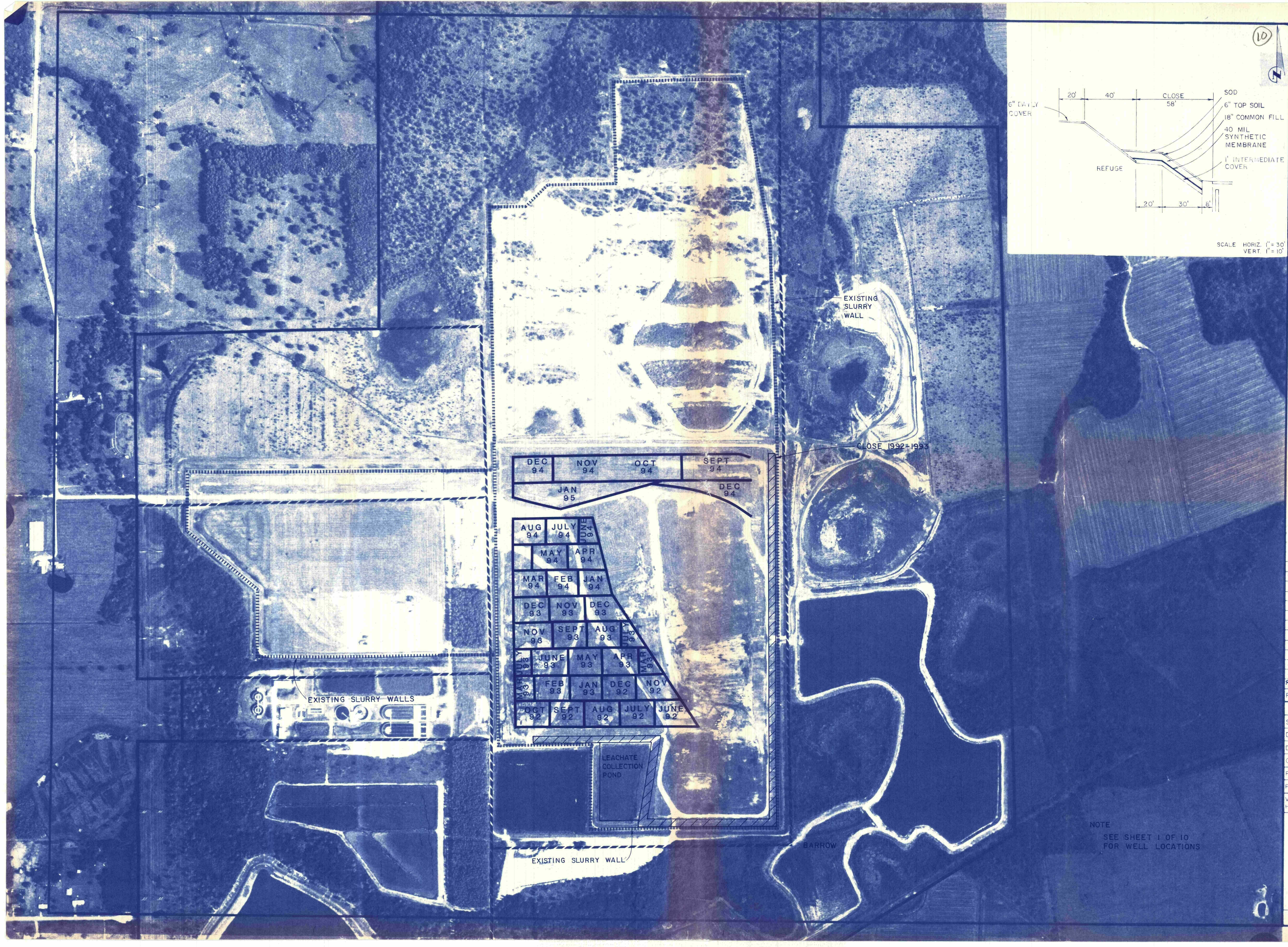
TYPICAL ROAD SECTION
EL. DITCH BOTTOM VARIES

EXIST SLURRY WALL

FINAL SURVEY
NOTEBOOK
No.
SURVEYED
PLOTTED
TRACED
AREA CHECKED
BY
DATE

ORIGINAL SURVEY
NOTEBOOK
No. 0
SURVEYED
PLOTTED
TRACED
AREA CHECKED
BY
NAME
DATE

HALL CERTIFICATE 10401 STATE OF NEBRASKA REGISTERED SURVEYOR



MANATEE COUNTY PUBLIC WORKS DEPARTMENT

COMPREHENSIVE SITE PLAN FILL AND CLOSURE SCHEDULE 1992-1997

REVISION	DATE
REVISED FILL SCHEDULE	6-92

	BY	DATE
SURVEYED	IFROOKS	9-91
DESIGNED	GY	3-92
DRAWN	KE	3-92
CHECKED	LLP	3-92

FILE NO.

PROJECT NO

VERTICAL SCALE

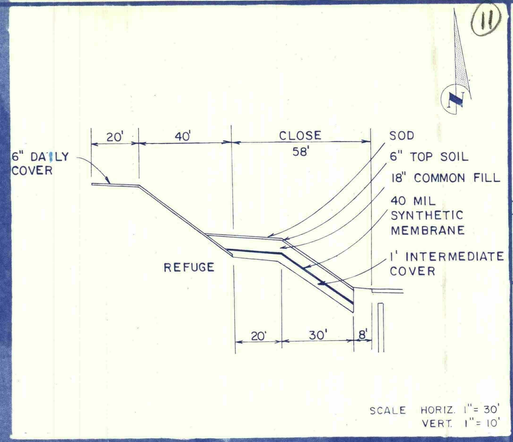
HORIZONTAL SCALE

SEAL

R. T. HALL CERTIFICATE NO. 27417 STATE OF FLORIDA REGISTERED ENGINEER

6-4-92

SHEET 10A OF 10



SCALE HORIZ. 1"= 30'
VERT. 1"= 10'

NOTE
SEE SHEET 1 OF 10 FOR WELL LOCATIONS

MANATEE COUNTY
PUBLIC WORKS
DEPARTMENT

COMPREHENSIVE SITE PLAN
FILL AND CLOSURE SCHEDULE
1992-1997

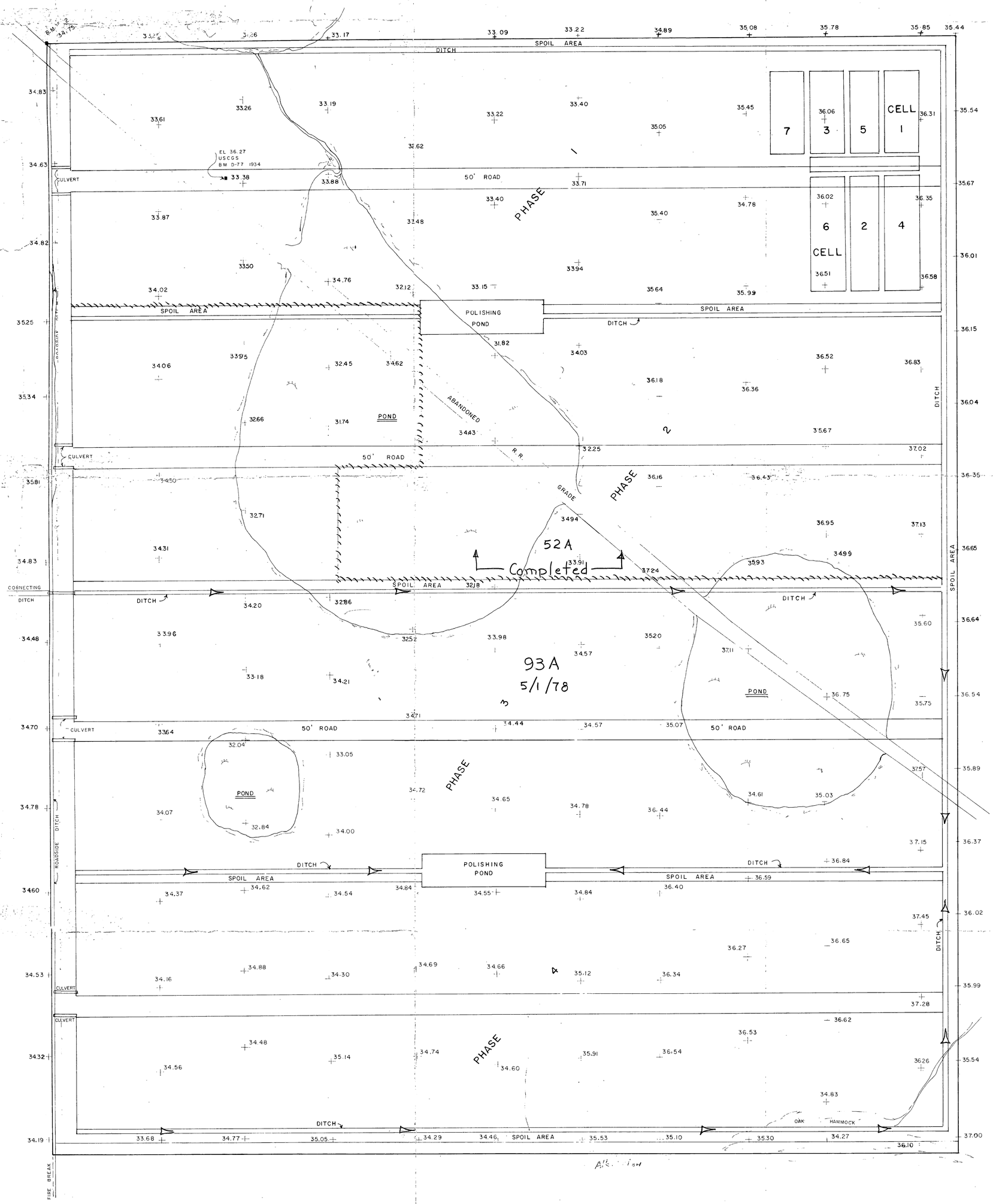
REVISED FILL SCHEDULE		6-92
REVISION		DATE
	BY	DATE
SURVEYED	I F ROOK	9-91
DESIGNED	G.Y	3-92
DRAWN	K.E	3-92
CHECKED	L.L.P	3-92
FILE NO. :		
PROJECT NO. :		
VERTICAL SCALE : HORIZONTAL SCALE :		

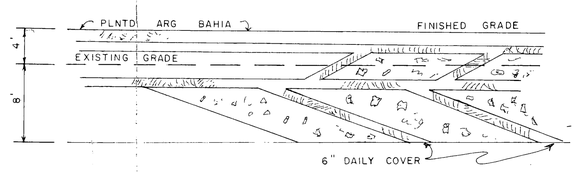
SEAL

R. T. HALL
CERTIFICATE
No. 27071
STATE OF
FLORIDA
REGISTERED ENGINEER

SHEET 10 B OF 10

(13)





UTILIZATION PLAN

SCALE 1" = 100'

LENA ROAD SANITARY LANDFILL

TOPOGRAPHIC & METHOD OF OPERATION MAP

[redacted]

NOTE
+ EXISTING ELEVATIONS SHOWN
FINAL GRADES TO BE 4' ABOVE

MANATEE COUNTY HIGHWAY DEPT
ENGINEERING DIVISION
MANATEE COUNTY MOSQUITO CONTROL DISTRICT
DIRECTOR: LAWRENCE M. RHODES

DRAWN BY: D.S. PARETI 2/7/75

DRAWING # 1132 SHEET 1 of 2

(14)

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Prepared in cooperation with the
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

15 OPEN-FILE REPORT 91-524

POTENTIOMETRIC SURFACE OF THE UPPER FLORIDAN AQUIFER, WEST-CENTRAL FLORIDA, MAY 1991

By

R.A. Mularoni

1992

INTRODUCTION

The potentiometric surface is an imaginary surface represented by the levels to which water rises in tightly cased wells that tap an aquifer. The potentiometric surface of the Upper Floridan aquifer is mapped by determining the water-level altitudes in a network of wells and is represented on maps by contour lines of equal altitude. Maps of the potentiometric surface of the Upper Floridan aquifer in west-central Florida are prepared cooperatively by the U.S. Geological Survey in cooperation with the Southwest Florida Water Management District. Maps for May and September show the potentiometric surface of the normally expected annual low and high water-level conditions, respectively. Potentiometric surface maps have been prepared for January 1964, May 1969, May 1971, May 1972, May 1973, May 1974, and for each May and September since 1975.

This report shows the potentiometric surface of the Upper Floridan aquifer in May 1991. Most of the water-level data were collected by the U.S. Geological Survey during the period of May 13-17. Supplemental data were collected by other agencies and companies. This map represents water-level conditions near the end of the spring dry season when ground-water withdrawals for agricultural use are high. The cumulative rainfall for the study area was 1.4 inches above normal for the period from June 1990 to May 1991 (Southwest Florida Water Management District, 1990-1991), resulting in less than normal demand upon ground-water resources for irrigation.

SUMMARY OF GROUND-WATER CONDITIONS

Annual and seasonal fluctuations of the potentiometric surface at selected wells are shown by hydrographs in figure 1. The hydrographs generally indicate that water levels in latitudes north of the Hillsborough-Pasco County line (northern area), where ground-water withdrawal usually is moderate, remain fairly uniform from year to year and seasonally, whereas water levels south of the county line (southern area), where withdrawal is substantially greater, show large year to year and seasonal fluctuations. Maximum daily water levels for selected wells from May 1990 through May 1991 are shown in figure 2.

Water levels in most wells measured in May 1991 were lower than those measured in September 1990 (Mularoni and Knochenmus, 1991). In 574 wells with paired measurements, the May 1991 level ranged from 17.90 feet below to 0.72 feet above the September 1990 level, and averaged 2.30 feet below the September level. The largest fluctuation of water levels occurred in southern Hillsborough and central Manatee Counties as a result of moderate seasonal ground-water withdrawals for irrigation.

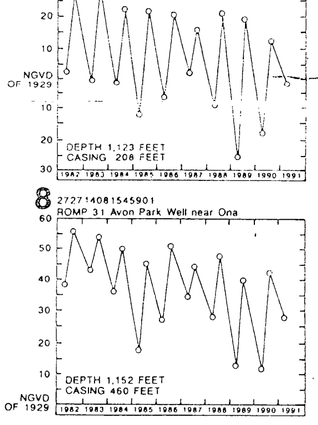
Water levels measured in May 1991 were generally higher than those reported for May 1990 (Knochenmus, 1990). In 574 wells with paired measurements, the May 1991 level ranged from 5.72 feet below to 25.50 feet above the May 1990 level and averaged 2.54 feet above May 1990 level. The change in water levels during this period was caused largely by differences in the times and amounts of spring rainfall and irrigation.

REFERENCES

Knochenmus, L.A., 1990, Potentiometric surface of the Upper Floridan aquifer, west-central Florida, May 1990: U.S. Geological Survey Open-File Report 90-556, 1 sheet.

Mularoni, R.A., and Knochenmus, L.A., 1991, Potentiometric surface of the Upper Floridan aquifer, west-central Florida, September 1990: U.S. Geological Survey Open-File Report 91-90, 1 sheet.

Southwest Florida Water Management District, 1990-91, Summary of hydrologic conditions, June 1990 to May 1991: 2 p.



1/ Station number based on the latitude and longitude of the site

2/ Romp 60 (Regional Observation and Monitor Well Program) a Southwest Florida Water Management District monitor well and identifying number

Figure 1.--Water levels in selected wells for May and September 1982-91.

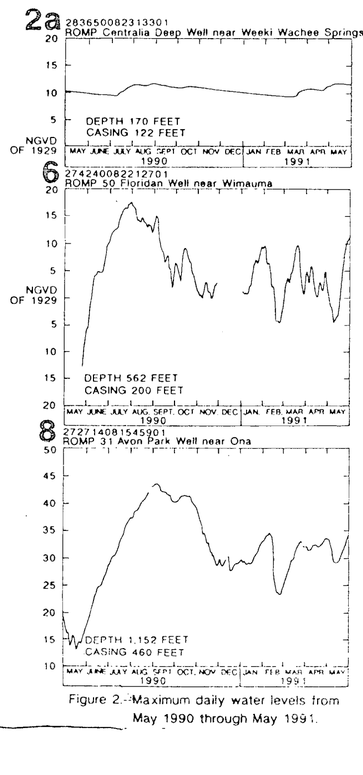


Figure 2.--Maximum daily water levels from May 1990 through May 1991.

WATER LEVEL, IN FEET ABOVE OR BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929

WATER LEVEL, IN FEET ABOVE OR BELOW NATIONAL GEODETIC VERTICAL DATUM OF 1929

EXPLANATION

20 — POTENTIOMETRIC CONTOUR -- Shows altitude at which water level would have stood in tightly cased wells. Contour interval 5 and 10 feet. National Geodetic Vertical Datum of 1929. Hachures indicate depressions

VERNA — MUNICIPAL WELL FIELD PRODUCING 500,000 GALLONS PER DAY OR MORE

BOUNDARY OF WATER MANAGEMENT DISTRICT BASIN

5 °42 / °49 — OBSERVATION WELLS -- Large number identifies hydrograph (fig. 1). Small number is altitude of water level in feet above or below NGVD of 1929.

SPRING

NOTE: The potentiometric contours are generalized to portray synoptically the head in a dynamic hydrologic system, taking due account of the variations in hydrogeologic conditions, such as differing depths of wells, nonsimultaneous measurements of water levels, variable effects of pumping, and changing climatic influence. The potentiometric contours thus may conform exactly with individual measurements of water level.

SCALE 1:500,000

0 10 20 MILES
0 0 20 KILOMETERS

Base from digital data derived from State base map of Florida 1:500,000, 1967
Provided by Southwest Florida Water Management District

Copies of this map can be purchased from:
U.S. Geological Survey
Book and Open-File Reports Section
Federal Center
Box 25425
Denver, Colorado 80225

6/24/92

RIII

LENA ROAD LANDFILL
VOLUME CALCULATIONS

ULT. BUILD OUT VOL. FOR STAGES I, II & III BETWEEN ELEVATIONS 39.25' & 107.00' PLUS VOL BELOW GRADE FOR STAGE II

AREAS FOR EA. LIFT WERE COMPUTED BY COMPUTER & ARE BASED ON THE FUTURE CONTOURS SHOWN ON DRAWINGS Nos. 6, 7, 8 & 9.

STAGE II BELOW GRADE = $\frac{4982608}{27} \times 8$ = 1476328

39.25 → 46.6 = $\frac{13415371 + 12821238}{2 \times 27} \times 7.35$ = 3571094

46.6 → 47.0 = $\frac{12821288 + 12429091}{54} \times 0.4$ = 187039

47.0 → 56.6 = $\frac{12429091 + 11654259}{54} \times 9.6$ = 4281484

56.6 → 57.0 = $\frac{11654259 + 11271573}{54} \times 0.4$ = 169821

57.0 → 66.6 = $\frac{11271573 + 10515663}{54} \times 9.6$ = 3873286

66.6 → 67.0 = $\frac{10515663 + 10142439}{54} \times 0.4$ = 153023

67.0 → 76.6 = $\frac{10142439 + 9405452}{54} \times 9.6$ = 3475181

76.6 → 77.0 = $\frac{9405452 + 9041689}{54} \times 0.4$ = 136645

77.0 → 86.6 = $\frac{9041689 + 8323625}{54} \times 9.6$ = 3087167

86.6 → 87.0 = $\frac{8323625 + 7969323}{54} \times 0.4$ = 120689

87.0 → 96.6 = $\frac{7969323 + 7272115}{54} \times 9.6$ = 2709589

96.6 → 97.0 = $\frac{7272115 + 6929726}{54} \times 0.4$ = 105199

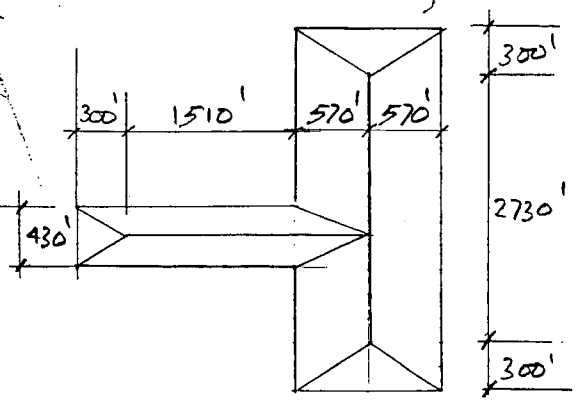
97.0 → 102.0 = $\frac{6929726 + 6591480}{54} \times 5.0$ = 1251964

102.0 → 107.0 = $\frac{6591480 + 21431 + 4784939}{54} \times 5.0$ = 1055356

SEE BELOW FOR 107.0 → 137.0 AREA/VOL CALCS.

107.0 → 137.0 = $\left\{ \text{①} \frac{3761500}{2 \times 27} + \text{②} \frac{935550}{3 \times 27} \right\} \times 30.0$ = 2436222

GROSS VOL. = 28,090087 YD³



AREA ① = 1510 × 430 + 1140 × 2730

= 3,761,500 FT²

AREA ② = 600 × 1140 + 430 × 300 + $\frac{430 \times 570}{2}$

= 935,550 FT²

LENA ROAD LANDFILL
VOLUME CALCULATIONS

6/24/92

~~RTH~~

BASED ON TOPOGRAPHIC MAPPING COMPILED FROM AERIAL PHOTOGRAPHY BY I.F. ROOKS & ASSOCIATES, INC. THE EXISTING MOUND VOLUME AS OF 9/9/91 WAS 4,261,000 YD^3

REMAINING VOL. = 28,090,000 − 4,261,000 = 23,829,000 YD^3

CURRENT RATE OF FILL = 498,600 YD^3/YR. SAY 499,000 YD^3/YR.

USING A GROWTH RATE OF 2½% /YR & n = NUMBER OF YRS. REMAINING.

$$n = \frac{\text{Log}\left(1 + \frac{23,829,000 \times 0.025}{499,000}\right)}{\text{Log } 1.025} = 31.82 \text{ YRS.}$$

R. T. HALL
CERTIFICATE
NO. 27417
STATE OF FLORIDA
REGISTERED ENGINEER

```
    starting width      3.0000
      ending width      3.0000

                  VERTEX     Layer: STAGE-2
                at point, X=2355.7197  Y=2729.5807  Z=  38.1800
    starting width      3.0000
      ending width      3.0000

                  VERTEX     Layer: STAGE-2
                at point, X=2178.9432  Y=2552.8042  Z=  38.1800
    starting width      3.0000
      ending width      3.0000

                  VERTEX     Layer: STAGE-2
                at point, X=1957.5440  Y=2552.8042  Z=  38.1800
    starting width      3.0000
      ending width      3.0000

                  END SEQUENCE  Layer: STAGE-2
Area = 4982608.2180,  Perimeter = 9496.7237


Command:                      END SEQUENCE  Layer: STAGE-2
Area = 4982608.2180,  Perimeter = 9496.7237
Command:
```

```
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5128.6401   Y=3979.2059   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL39-25
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5128.3700   Y=3000.9451   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL39-25
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5128.0800   Y=2000.9349   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL39-25
                  Color: 7 (white)       Linetype: BYLAYER
Area = 13415371.1441,  Perimeter = 19922.7168


Command:                        Color: 7 (white)       Linetype: BYLAYER
Area = 13415371.1441,  Perimeter = 19922.7168
Command:
```

```
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5098.6402  Y=3979.6656  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL46-60
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5098.3700  Y=3000.9538  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL46-60
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5098.0800  Y=2000.9430  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL46-60
                  Color: 7 (white)       Linetype: BYLAYER
Area = 12821237.6269,  Perimeter = 19686.1844


Command:                        Color: 7 (white)       Linetype: BYLAYER
Area = 12821237.6269,  Perimeter = 19686.1844
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5078.6403  Y=3979.9721   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL47
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5078.3700  Y=3000.9592   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL47
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5078.0800  Y=2000.9484   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL47
                  Color: 7 (white)     Linetype: BYLAYER
Area = 12429090.8224,  Perimeter = 19528.4961


Command:                        Color: 7 (white)     Linetype: BYLAYER
Area = 12429090.8224,  Perimeter = 19528.4961
Command:
```

```
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5038.6405   Y=3980.5851   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                  VERTEX     Layer: EL56-60
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5038.3700   Y=3000.9708   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                  VERTEX     Layer: EL56-60
                  Color: 7 (white)       Linetype: BYLAYER
                at point, X=5038.0800   Y=2000.9592   Z=   33.4300
    starting width     0.0000
      ending width     0.0000

                  END SEQUENCE  Layer: EL56-60
                  Color: 7 (white)       Linetype: BYLAYER
Area = 11654258.5101,  Perimeter = 19213.1195


Command:                        Color: 7 (white)       Linetype: BYLAYER
Area = 11654258.5101,  Perimeter = 19213.1195
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5018.6405  Y=3980.8916  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL57
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5018.3700  Y=3000.9766  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL57
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=5018.0800  Y=2000.9646  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL57
                  Color: 7 (white)     Linetype: BYLAYER
Area = 11271573.0024,  Perimeter = 19055.4312


Command:                       Color: 7 (white)     Linetype: BYLAYER
Area = 11271573.0024,  Perimeter = 19055.4312
Command:
```

```
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4978.6407   Y=3981.5046   Z=   33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL66-60
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4978.3700   Y=3000.9882   Z=   33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL66-60
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4978.0800   Y=2000.9754   Z=   33.4300
  starting width     0.0000
    ending width     0.0000

                END SEQUENCE  Layer: EL66-60
                Color: 7 (white)       Linetype: BYLAYER
Area = 10515663.2835,  Perimeter = 18740.0547


Command:                       Color: 7 (white)       Linetype: BYLAYER
Area = 10515663.2835,  Perimeter = 18740.0547
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4958.6408  Y=3981.8111  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 VERTEX    Layer: EL67
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4958.3700  Y=3000.9940  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 VERTEX    Layer: EL67
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4958.0800  Y=2000.9808  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 END SEQUENCE  Layer: EL67
                  Color: 7 (white)     Linetype: BYLAYER
Area = 10142439.0725,  Perimeter = 18582.3664


Command:                       Color: 7 (white)     Linetype: BYLAYER
Area = 10142439.0725,  Perimeter = 18582.3664
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4918.6410  Y=3982.4241  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 VERTEX    Layer: EL76-60
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4918.3700  Y=3001.0056  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 VERTEX    Layer: EL76-60
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4918.0800  Y=2000.9916  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                 END SEQUENCE  Layer: EL76-60
                  Color: 7 (white)     Linetype: BYLAYER
Area = 9405451.9471,  Perimeter = 18266.9899


Command:                       Color: 7 (white)     Linetype: BYLAYER
Area = 9405451.9471,  Perimeter = 18266.9899
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4898.6410  Y=3982.7306  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX    Layer: EL77
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4898.3700  Y=3001.0114  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX    Layer: EL77
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4898.0800  Y=2000.9970  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL77
                  Color: 7 (white)     Linetype: BYLAYER
Area = 9041689.0327,  Perimeter = 18109.3016


Command:                       Color: 7 (white)     Linetype: BYLAYER
Area = 9041689.0327,  Perimeter = 18109.3016
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4858.6412  Y=3983.3436  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL86-60
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4858.3700  Y=3001.0230  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL86-60
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4858.0800  Y=2001.0078  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL86-60
                  Color: 7 (white)     Linetype: BYLAYER
Area = 8323624.5008,  Perimeter = 17793.9250


Command:                      Color: 7 (white)     Linetype: BYLAYER
Area = 8323624.5008,  Perimeter = 17793.9250
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4838.6413  Y=3983.6501  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX    Layer: EL87
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4838.3700  Y=3001.0288  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX    Layer: EL87
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4838.0800  Y=2001.0132  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL87
                  Color: 7 (white)     Linetype: BYLAYER
Area = 7969323.1463,  Perimeter = 17637.3777


Command:                    Color: 7 (white)     Linetype: BYLAYER
Area = 7969323.1463,  Perimeter = 17637.3777
Command:
```

```
                Color: 7 (white)     Linetype: BYLAYER
              at point, X=4798.6415  Y=3984.2631  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL96-60
                Color: 7 (white)     Linetype: BYLAYER
              at point, X=4798.3700  Y=3001.0404  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL96-60
                Color: 7 (white)     Linetype: BYLAYER
              at point, X=4798.0800  Y=2001.0240  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                END SEQUENCE  Layer: EL96-60
                Color: 7 (white)     Linetype: BYLAYER
Area = 7272114.7820,  Perimeter = 17223.0405


Command:                     Color: 7 (white)     Linetype: BYLAYER
Area = 7272114.7820,  Perimeter = 17223.0405
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=4778.6415  Y=3984.5696  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL97
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=4778.3700  Y=3001.0462  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL97
                  Color: 7 (white)     Linetype: BYLAYER
                at point, X=4778.0800  Y=2001.0294  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL97
                  Color: 7 (white)     Linetype: BYLAYER
Area = 6929725.6592,  Perimeter = 17015.8718


Command:                        Color: 7 (white)     Linetype: BYLAYER
Area = 6929725.6592,  Perimeter = 17015.8718
Command:
```

```
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4758.6416  Y=3984.8761  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                VERTEX    Layer: EL102
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4758.3700  Y=3001.0520  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                VERTEX    Layer: EL102
                  Color: 7 (white)     Linetype: BYLAYER
               at point, X=4758.0800  Y=2001.0348  Z=  33.4300
   starting width     0.0000
     ending width     0.0000

                END SEQUENCE  Layer: EL102
                  Color: 7 (white)     Linetype: BYLAYER
Area = 6591479.9092.  Perimeter = 16808.7032


Command:                        Color: 7 (white)     Linetype: BYLAYER
Area = 6591479.9092.  Perimeter = 16808.7032
Command:
```

```
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4658.0760  Y=1981.0462  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL107-SM
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4657.9560  Y=1540.9866  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                VERTEX     Layer: EL107-SM
                Color: 7 (white)       Linetype: BYLAYER
              at point, X=4571.4226  Y=1541.3506  Z=  33.4300
  starting width     0.0000
    ending width     0.0000

                END SEQUENCE  Layer: EL107-SM
                Color: 7 (white)       Linetype: BYLAYER
Area = 21430.9926,  Perimeter = 983.6500


Command:                       Color: 7 (white)       Linetype: BYLAYER
Area = 21430.9926,  Perimeter = 983.6500
Command:
```

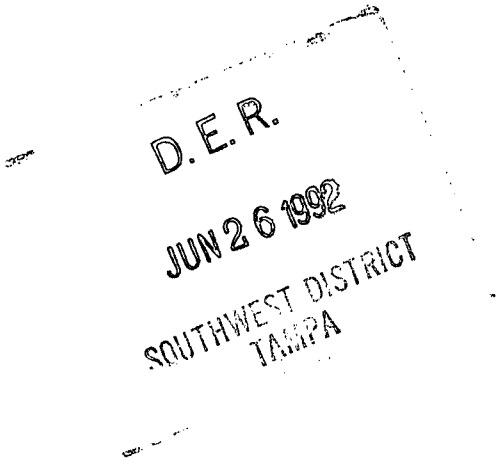
```
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=3500.6563  Y=2872.3600  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL107-LG
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=3482.2542  Y=2179.9073  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                VERTEX     Layer: EL107-LG
                  Color: 7 (white)     Linetype: BYLAYER
              at point, X=4658.0348  Y=2181.1765  Z=  33.4300
    starting width     0.0000
      ending width     0.0000

                END SEQUENCE  Layer: EL107-LG
                  Color: 7 (white)     Linetype: BYLAYER
Area = 4784939.2718,  Length = 12951.3977


Command:                      Color: 7 (white)     Linetype: BYLAYER
Area = 4784939.2718,  Length = 12951.3977
Command:
```


D.E.R.
JUN 26 1992
SOUTHWEST DISTRICT
TAMPA

DATA FOR LENA ROAD LANDFILL MONITORING WELLS AND PIEZIOMETER WELLS

Inorganic
Analysis

THE FOLLOWING IS A SUMMARY OF THE LABORATORY INORGANIC ANALYTICAL RESULTS FOR EACH WELL. WELLS HAVE BEEN GROUPED BY THEIR ASSOCIATION WITH THE SEVERAL STAGES OF LANDFILL DEVELOPMENT

INORGANIC DATA FOR WELLS SURROUNDING STAGE I LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC
2/92	MW 1	4.8	122	12	<0.01	0.43	0.6	19.2	143	60	50.3	19.2
2/92	MW 2	6.3	176	55	<0.01	0.02	1.2	43.2	288	250	18.2	26.8
2/92	MW 3	5.5	217	21	<0.01	0.03	3.6	129	401	20	86.8	39.8
2/92	MW 6	5.6	275	8.4	<0.01	<0.01	2.9	20.8	199	20	59.7	17.0
2/92	CW 4	6.6	262	22	<0.01	0.02	0.6	158	844	35	166	15.7
2/92	CW 5	5.7	131	6.2	<0.01	0.01	1.2	32.4	165	35	22.2	14.0
12/91	MW 1	5.3	79.3	4.0	< 0.01	0.02	1.8	8.5	75.0	0	4.06	8.9
12/91	MW 2	6.4	708	50	< 0.01	0.08	11.4	87.4	431	130	11.4	20.8
12/91	MW 3	5.9	687	8.0	< 0.01	0.01	1.6	137	108	195	77.3	10.6
12/91	MW 6	5.4	304	8.9	< 0.01	0.01	1.3	32.6	193	250	58.4	9.6
12/91	CW 4	6.7	1180	50	< 0.01	< 0.01	1.9	161	857	110	153	12.4
12/91	CW 5	5.7	254	4.8	< 0.01	< 0.01	1.9	34.9	182	35	22.0	14.8
8/91	MW 1	5.0	133	8.7	<0.01	<0.01	1.7	16.2	93.0	30	14.1	8.4
8/91	MW 2	6.4	549	44	<0.01	0.01	1.9	81.8	389	120	15.7	21.3
8/91	MW 3	5.8	517	7.0	<0.01	0.01	1.5	117	359	60	61.1	18.0
8/91	MW 6	5.5	210	1.81	<0.01	<0.01	1.1	30.8	174	300	39.7	9.6
8/91	CW 4	6.8	995	30	<0.01	0.01	2.2	161	845	80	153	16.4
8/91	CW 5	5.7	239	2.7	<0.01	0.02	0.7	36.7	198	20	32.6	16.6
5/91	MW 1	5.3	80.5	4.3	< 0.01	0.04	6.0	7.1	70.0	40	1.4	13.3
5/91	MW 2	6.2	684	28	< 0.01	0.02	9.8	109	475	120	23.5	31.4
5/91	MW 3	5.9	530	37	< 0.01	0.01	1.2	122	398	200		*
5/91	MW 6	6.6	1095	31	< 0.01	0.07	1.7	178	1050	70	202	23.4
5/91	CW 4	5.6	235	8.3	< 0.01	0.02	1.6	35.9	190	50	30.8	11.2
5/91	CW 5	7.1	143	19	< 0.01	0.03	1.3	5.2	142	70		8.5
3/91	MW 1	5.6	65.5	9.9	0.01	0.01	1.3	6.6	81		3.3	15.1
3/91	MW 2	6.5	753	46	0.01	0.02	10.5	123	541		20.2	41.6
3/91	MW 3	6.0	511	65	0.01	0.03	1.6	121	384		43.5	20.5
3/91	MW 6	5.8	196	20	0.01	0.01	1.4	8.9	170		61.6	13.6
3/91	CW 4	6.7	1000	8.6	<0.01	0.03	1.6	164	976		33.9	19.4
3/91	CW 5	5.7	255	20	<0.01	0.01	1.8	42.7	182		25.7	12.7
12/90	MW1	6.0	101	9.4	< 0.01	0.01	1.6	13.5	82.0	40	3.7	11.0
12/90	MW2	6.5	840	37	< 0.01	0.06	11.8	137	572	200	16.6	41.9
12/90	MW3	6.0	621	19.00	< 0.01	< 0.01	1.6	174	460	120	33.6	19.7
12/90	MW6	5.5	180	38	< 0.01	0.01	1.7	5.76	169	160	49.7	16.9
12/90	CW4	6.8	1030	22	< 0.01	< 0.01	1.2	172	868	40	179	18.9
12/90	CW5	5.8	215	3.9	< 0.01	< 0.01	1.7	34.3	147	30	21.9	10.9

INORGANIC DATA FOR WELLS SURROUNDING STAGE I LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
8/90	MW 1	5.6	96.8	40	0.3	0.03	0.9	16.4	79	12.7			
8/90	MW 2	6.2	999	24	0.03	0.05	11.7	135	662	45.3			
8/90	MW 3	6.0	666	4.4	0.03	0.03	1.4	176	505	21.4			
8/90	MW 6	5.7	181	8.7	0.02	0.02	1.1	15.6	152	16.6			
8/90	CW 4	6.8	1014	5.7	0.02	0.02	1.3	134	834	18.8			
8/90	CW 5	5.9	202	2.9	0.02	0.02	1.5	27.363	153	13.3			
6/90	MW 1	5.4	81.8	8.2	<0.01	0.03	0.8	13	87	50	4.63	8.2	28
6/90	MW 2	6.4	1010	18.2	<0.01	0.03	12.7	17.3	709	280	12.1	44.4	365
6/90	MW 3	5.5	3310	20	<0.01	0.02	3.3	48.5	200	80	27.6	16.4	30
6/90	MW 6	5.6	339	2.6	<0.01	0.04	1.2	80.3	425	60	1.4	12.6	39
6/90	CW 3	6.5	1500	93	<0.01	0.04	39.1	147	823	150	16.4	68.3	658
6/90	CW 4	6.8	986	20	<0.01	0.02	0.9	110	810	120	176	15.1	279
3/90	MW-1	5.4	118	27	<0.01	0.01	0.7	18.4	84	40	8	9.8	14
3/90	MW-2	6.4	840	120	<0.01	0.02	10.9	143	623	200	17	46.8	293
3/90	MW-3	6.2	729	61	<0.01	0.02	1.6	144	453	100	9	25.6	116
3/90	MW-6	5.7	487	34	<0.01	0.01	0.5	82.9	304	100	3	13.6	54
3/90	CW-3	6.5	2230	205	<0.01	0.03	98.9	229	1050	160	< 1	65.3	835
3/90	CW-4	6.8	1140	43	<0.01	<0.01	1.6	115	848	80	167	18.1	282
8/89	MW-1	5.5	133	3.9	< 0.01	0.01	0.7	22.5	106	20	9	10.0	30
8/89	MW-2	6.4	1390	11	< 0.01	< 0.01	13.2	230	820	120	31	49.5	342
8/89	MW-3	6.3	988	2.1	< 0.01	< 0.01	1.7	239	604	60	4	37.9	196
8/89	MW-6	5.7	603	3.1	< 0.01	0.03	1.1	137	477	40	3	19.9	68
8/89	CW-4	6.7	1190	16	< 0.01	< 0.01	1.1	145	810	80	183	18.8	283
8/89	CW-5	6.2	299	2.7	< 0.01	< 0.01	0.5	22.2	178	20	63	6.6	36
4/89	MW-1	5.6	92	10	< 0.01	0.02	0.6	16.4	86	60	5	12.4	19
4/89	MW-2	6.3	1510	22	< 0.01	< 0.01	17.9	253	944	500	18	64.8	383
4/89	MW-3	6.1	1360	3.2	< 0.01	< 0.01	1.8	179	894	800	220	35.0	179
4/89	MW-6	5.7	672	7.5	< 0.01	0.05	1.1	154	526	100	3	17.3	76
4/89	CW-4	6.9	1070	15	< 0.01	< 0.01	1.1	108	776	50	162	17.7	290
4/89	CW-5	5.8	234	2.7	< 0.01	< 0.01	0.8	19.7	154	20	54	7.8	24
3/89	MW-1	5.1	83	8.4	< 0.01	0.01	1.3	8.6	60	60	4	12.5	11
3/89	MW-2	6.5	1600	80	0.01	0.03	15.0	253	958	120	16	63.0	409
3/89	MW-3	6.5	1610	14	0.02	0.06	2.0	152	1280	80	532	28.4	169
3/89	MW-6	5.8	650	13	< 0.01	0.04	2.2	159	510	50	3	15.7	72
3/89	CW-4	5.7	227	3.0	< 0.01	< 0.01	0.8	17.0	144	10	54	7.2	17
3/89	CW-5	5.7	250	3.5	< 0.01	< 0.01	1.1	20.3	146	10	51	6.4	28

INORGANIC DATA FOR WELLS SURROUNDING STAGE I LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
12/88	MW-1	5.3	65	17	< 0.01	< 0.01	0.4	5.3	80	30	2	14.3	9
12/88	MW-2	5.8	836	4.3	< 0.01	< 0.01	9.0	183	480	60	95	38.4	68
12/88	MW-3	6.2	569	17	< 0.01	0.03	2.5	66.2	328	30	24	8.5	28
12/88	MW-6	6.1	574	36	< 0.01	< 0.01	0.5	151	484	50	4	14.6	70
12/88	CW-4	6.8	1210	19	< 0.01	< 0.01	0.8	98.1	878	40	202	20.6	268
12/88	CW-5	5.4	245	0.34	< 0.01	< 0.01	0.2	19.3	150	5	51	5.0	20

INORGANIC DATA FOR WELLS SURROUNDING STAGE II LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
2/92	LRII 1	6.3	571	60	0.12	0.02	2.1	27.0	374	250	115	10.8	107
2/92	LRII 2	6.1	160	3.6	<0.01	<0.01	1.0	7.15	94	70	6.52	2.8	52
2/92	LRII 3	5.4	59.8	1.2	<0.01	0.06	0.6	5.6	36.0	30	6.66	2.3	4.2
2/92	LRII 4	6.7	321	6.4	<0.01	<0.01	0.6	7.0	165	60	0.76	3.1	153
2/92	SA 5	7.4	662	0.71	<0.01	<0.01	1.9	71.0	427	10	34.6	8.4	214
2/92	SA 6	7.5	884	0.26	<0.01	<0.01	0.4	51.4	622	10	176	6.7	180
2/92	SA 7	7.7	496	0.9	<0.01	<0.01	1.1	54.4	309	30	8.81	3.6	156
2/92	SA 8	10.5	372	110	<0.01	0.03	0.8	55.2	216	20	10.3	4.4	4.2
12/91	LRII 1	6.2	635	150	< 0.01	0.02	0.4	32.8	363	150	90.4	12.5	87.6
12/91	LRII 2	6.0	148	4.4	< 0.01	0.01	1.3	8.6	95.0	60	92.0	3.5	46.4
12/91	LRII 3	5.0	122	0.85	< 0.01	0.04	0.4	8.0	30	10	6.06	3.5	3.9
12/91	LRII 4	6.5	317	13	< 0.01	< 0.01	<0.2	10.4	160	20	0.97	3.8	153
12/91	SA 5	7.4	738	2.6	< 0.01	< 0.01	1.2	62.4	414	30	34.6	9.4	225
12/91	SA 6	7.3	878	1.9	< 0.01	< 0.01	0.8	58.2	597	30	182	5.8	166
12/91	SA 7	7.6	587	3.4	< 0.01	< 0.01	0.5	58.8	311	10	8.2	7.4	154
12/91	SA 8	8.3	538	0.40	< 0.01	< 0.01	0.5	58.5	293	10	11.1	5.8	141
8/91	LRII 1	6.3	495	155	0.03	0.05	1.4	31.7	396	500	143	13.5	81.2
8/91	LRII 2	5.9	116	3.1	<0.01	0.01	1.3	7.20	73.0	120	7.58		37.2
8/91	LRII 3	4.9	48.0	0.55	<0.01	0.01	1.4	7.65	29.0	60	5.16	2.8	7.6
8/91	LRII 4	7.6	227	21	<0.01	<0.01	1.4	9.10	145	30	1.06	2.8	126
8/91	SA 5	7.4	549	0.65	<0.01	0.01	1.5	60.2	425	10	57.3	9.4	224
8/91	SA 6	7.5	695	5.8	<0.01	<0.01	1.2	54.0	589	40	180	6.4	173
8/91	SA 7	8.5	405	21	<0.01	<0.01	1.6	60.0	274	50	9.49	3.8	131
8/91	SA 8	7.8	374	6.0	<0.01	<0.01	1.9	58.2	302	30	16.2	3.5	156
5/91	LRII-1	6.4	462	22	< 0.01	0.01	1.1	27.8	279	80		6.45	
5/91	LRII-2	7.6	426	4.1	< 0.01	0.01	0.9	56.6	300	0		4.44	
5/91	LRII-3	8.1	421	0.85	< 0.01	0.01	1.1	54.9	308	0		4.12	
5/91	LRII-4	6.7	237	34	< 0.01	0.01	1.0	8.0	137	10		2.98	
5/91	SA 5	6.1	527	100	< 0.01	0.02	2.4	38.0	578	300		8.98	
5/91	SA 6	7.4	710	0.75	< 0.01	0.01	1.4	50.6	618	0		6.70	
5/91	SA 7	6.1	133	3	< 0.01	0.03	1.3	7.2	91	40		2.99	
5/91	SA 8	5.1	48.4	0.20	< 0.01	0.01	1.1	13.0	32	0		1.70	

INORGANIC DATA FOR WELLS SURROUNDING STAGE II LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
3/90	LR-II-1	6.5	527	30	<0.01	0.02	1.8	26.4	333	40	104	11.1	103
3/90	LR-II-2	6.5	164	16	<0.01	0.01	0.2	6.9	97	20	5	3.5	64
3/90	LR-II-3	5.0	85.5	12	<0.01	0.01	0.2	10.9	38	20	2	2.1	5
3/90	LR-II-4	6.6	359	14	<0.01	0.01	0.7	10	159	30	< 1	3.5	141
3/90	SA-5	7.4	697	28	<0.01	0.01	1.8	66.9	429	20	38	8.6	221
3/90	SA-6	7.4	847	25	<0.01	<0.01	1.4	54.6	604	20	196	7.6	175
3/90	SA-7	7.6	597	20	<0.01	0.01	0.9	59.9	313	10	5	3.7	158
3/90	SA-8	7.7	602	17	<0.01	0.01	0.7	58.9	302	10	8	4.2	156
8/89	LRII-1	6.2	582	190	< 0.01	0.03	1.4	28.3	304	240	86	10.5	116
8/89	LRII-2	6.3	183	11	< 0.01	< 0.01	0.3	6.9	106	20	5	3.5	8
8/89	LRII-3	5.2	68	1.3	< 0.01	< 0.01	0.6	12.4	34	5	2	1.6	4
8/89	LRII-4	6.4	325	50	< 0.01	< 0.01	0.5	10.4	152	30	1	4.6	138
8/89	SA-5	7.2	790	31	< 0.01	0.01	0.2	66.7	424	20	44	12.8	220
8/89	SA-6	6.9	900	45	< 0.01	< 0.01	1.5	54.3	566	5	169	5.1	158
8/89	SA-7	8.7	478	110	< 0.01	0.03	1.2	64.9	256	10	7	4.2	107
8/89	SA-8	8.6	479	75	< 0.01	< 0.01	0.7	59.1	258	10	7	8.2	130
4/89	LRII-1	6.2	520	250	< 0.01	0.07	0.9	28.6	292	140	72	11.0	132
4/89	LRII-2	6.2	197	18	< 0.01	0.01	0.7	9.1	94	50	5	4.1	82
4/89	LRII-3	6.3	66	1.6	< 0.01	0.03	< 0.2	12.4	22	5	2	2.6	4
4/89	LRII-4	6.4	304	31	< 0.01	0.02	0.4	11.2	154	60	1	5.1	134
4/89	SA-5	7.2	694	40	0.01	0.01	0.8	66.6	422	40	40	10.6	214
4/89	SA-6	7.6	839	60	< 0.01	0.01	0.7	67.0	566	30	131	8.3	185
4/89	SA-7	8.3	443	75	< 0.01	0.03	0.8	62.8	262	10	6	5.3	164
4/89	SA-8	8.3	458	80	< 0.01	0.02	1.6	62.3	286	10	7	6.8	158
3/89	LR II-1	6.4	466	150	0.01	< 0.01	0.6	29.2	296	50	72	12.1	135
3/89	LR II-2	6.7	247	34	< 0.01	1.00	< 0.2	5.0	128	20	7	2.7	107
3/89	LR II-3	5.4	72	22	< 0.01	< 0.01	0.2	11.8	14	5	2	1.0	15
3/89	LR II-4	6.9	337	34	< 0.01	< 0.01	0.6	7.3	186	40	< 2	2.7	154
3/89	SA-5	8.9	568	6.80	< 0.01	0.57	0.8	74.0	336	20	27	5.3	151
3/89	SA-6	11.6	1270	6.5	< 0.01	< 0.01	1.3	22.4	550	10	147	6.4	< 1
3/89	SA-7	12.2	3900	0.68	< 0.01	< 0.01	1.5	68.8	940	10	6	2.4	< 1
3/89	SA-8	9.8	405	30	< 0.01	< 0.01	1.2	54.2	248	< 1	8	2.8	67

INORGANIC DATA FOR WELLS SURROUNDING STAGE II LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
12/88	LR II-1	6.3	478	70	0.01	0.03	0.7	28.2	298	40	67	10.7	121
12/88	LR II-2	6.4	586	28	0.01	0.02	< 0.2	6.6	162	40	8	3.7	116
12/88	LR II-3	5.6	90	17	0.01	< 0.01	< 0.2	11.1	58	30	1	1.1	24
12/88	LR II-4	6.8	349	27	< 0.01	0.02	< 0.2	11.0	204	5	3	4.9	157
12/88	SA-5	8.3	557	1.00	0.01	< 0.01	< 0.2	67.4	340	5	25	6.0	161
12/88	SA-6	8.8	703	3.3	< 0.01	< 0.01	< 0.2	50.5	448	5	112	6.5	95
12/88	SA-7	11.8	4060	2.9	0.01	0.02	1.5	118	996	10	3	3.4	< 1
12/88	SA-8	9.6	412	8.4	< 0.01	0.01	1.2	47.8	256	5	16	3.9	34

low for cond #

INORGANIC DATA FOR WELLS SURROUNDING STAGE III LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
2/92	GC 1	6.4	1140	100	0.01	<0.01	1.9	116	726	80	0.43	19.5	479
2/92	GC 2	6.1	592	39	0.02	<0.01	1.7	58.4	390	300	50.4	13.2	151
2/92	GC 3	6.7	474	27	<0.01	0.02	1.4	29.9	306	70	30.9	15.0	181
2/92	GC 4	6.7	494	75	<0.01	0.06	0.4	31.3	318	20	63.4	6.8	151
2/92	GC 5	5.6	302	24	<0.01	<0.01	2.7	26.7	205	50	38.7	24.2	53
2/92	GC 6	5.5	487	7.6	<0.01	<0.01	4.8	40.6	307	50	102	16.5	74.0
12/91	GC 1	6.4	1030	130	< 0.01	0.07	1.4	145.0	685	225	2.31	17.6	363
12/91	GC 2	6.2	571	150	< 0.01	0.04	1.3	75.0	387	700	44.5	13.0	122
12/91	GC 3	6.6	566	45	< 0.01	< 0.01	0.7	28.3	294	65	33.2	8.3	199
12/91	GC 4	6.5	551	90	< 0.01	0.03	1.3	28.9	319	220	55.8	7.9	153
12/91	GC 5	6.5	531	11	< 0.01	< 0.01	2.5	20.0	344	165	38.3	21.7	205
12/91	GC 6	5.8	520	5.8	< 0.01	< 0.01	4.8	40.7	330	65	83.3	14.0	121
8/91	GC 1	6.3	931	210	0.02	0.01	1.5	145	687	350	4.21	18.5	353
8/91	GC 2	6.2	493	106	0.02	0.06	1.4	64.2	395	500	30.9	21.3	132
8/91	GC 3	6.5	424	42	<0.01	<0.01	1.1	28.7	277	300	31.6	8.0	186
8/91	GC 4	6.6	482	151	0.03	0.05	1.3	29.3	332	150	74.9	5.4	158
8/91	GC 5	5.8	226	7.2	<0.01	0.03	2.9	3.35	150	120	5.60	33.4	48.8
8/91	GC 6	5.6	377	21	<0.01	0.02	4.9	37.1	251	60	81.0	11.9	61.3
5/91	GC 1	7.3	567	5.6	< 0.01	< 0.01	2.1	22.6	380	10		11.6	
5/91	GC 2	7.1	552	2.0	< 0.01	0.01	1.1	29.5	341	10		9.19	
5/91	GC 3	6.0	624	90	0.01	0.10	0.9	87.5	423	300		11.2	
5/91	GC 4	6.5	868	7.2	0.01	< 0.01	1.3	129	693	70		15.4	
5/91	GC 5	5.5	234	20	< 0.01	0.01	2.4	30.8	191	50		9.12	
3/91	GC 2	6.2	561	85	<0.01	0.18	0.2	87.3	442		45.5	16.7	
3/91	GC 3	6.6	424	80	<0.01	0.02	1.4	28.6	305		36.4	9.9	
3/91	GC 5	6.3	502	22	<0.01	0.02	1.7	28.1	344		60.6	16.6	
3/91	GC 6	5.7	494	10	<0.01	0.02	4.2	59.2	347		122	10.0	
12/90	GC1	6.3	1170	120	0.02	0.03	2.1	162	687	500	1.7	19.9	
12/90	GC2	6.3	588	38	< 0.01	< 0.01	1.0	88.0	421	40	61.6	15.1	
12/90	GC3	6.6	505	26	< 0.01	0.01	1.5	29.3	294	140	37.7	8.9	
12/90	GC4	6.3	519	30	< 0.01	0.03	1.0	31.9	343	120	79.2	5.0	
12/90	GC5	6.7	444	19	< 0.01	< 0.01	3.6	33.6	324	120	59.7	17.9	
12/90	GC6	5.5	501	19	< 0.01	< 0.01	3.6	54.3	330	120	131	12.5	

INORGANIC DATA FOR WELLS SURROUNDING STAGE III LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
8/90	GC 1	6.3	1130	90	0.02	0.04	1.5	151	760	19.2			
8/90	GC 2	6.2	599	160	0.02	0.1	1.1	94	469	17			
8/90	GC 3	6.6	457	39	0.02	0.04	1.4	27.9	676	8.6			
8/90	GC 4	6.5	621	70.00	0.02	0.03	0.7	32	355	5			
8/90	GC 5	6.1	603	12	0.02	0.04	2.3	31.4	371	15.4			
8/90	GC 6	5.7	553	7.8	0.02	0.04	4.3	111	330	13.3			
6/90	GC 1	6.5	936	140	<0.01	0.05	0.7	152	784	300	2.2	15.6	366
6/90	GC 2	6.4	639	380	<0.01	0.06	1.0	97.6	596	800	24.2	15.2	157
6/90	GC 3	6.7	470	35	<0.01	0.03	0.8	30.5	316	200	30	7.5	186
6/90	GC 4	6.8	513	120	<0.01	0.02	0.8	34.2	380	300	81	3.3	171
6/90	GC 5	5.6	282	23	<0.01	0.03	3.0	35.4	196	50	39.3	13.4	42
6/90	GC 6	6.2	530	7	<0.01	0.06	3.8	107.0	392	100	73.9	9.8	73
3/90	GC-1	6.5	593	52	<0.01	<0.01	1.6	152	705	300	< 1	18.8	375
3/90	GC-2	6.2	731	55	<0.01	0.01	2.2	89.5	430	100	26	18.2	194
3/90	GC-3	6.7	473	31	<0.01	0.01	0.9	26.2	289	160	33	9.0	285
3/90	GC-4	6.6	574	21	<0.01	0.04	0.6	26.8	356	160	58	6.0	167
3/90	GC-5	5.7	309	35	<0.01	<0.01	2.9	31	210	80	48	14.4	49
3/90	GC-6	5.9	551	26	<0.01	<0.01	3.7	95.5	351	80	59	11.6	51
8/89	GC-1	6.3	1420	280	< 0.01	0.01	1.1	82.6	769	200	1	21.5	386
8/89	GC-2	6.0	872	180	< 0.01	< 0.01	1.6	116	525	200	27	18.4	247
8/89	GC-3	6.4	522	40	< 0.01	0.03	2.2	29.9	367	100	25	8.4	183
8/89	GC-4	6.5	445	19	< 0.01	< 0.01	1.0	26.8	264	30	84	7.1	85
8/89	GC-5	5.4	361	27	< 0.01	0.01	1.9	53.3	232	160	40	14.9	34
8/89	GC-6	6.0	616	4.0	< 0.01	< 0.01	3.9	84.0	301	200	81	11.2	45
4/89	GC-1	6.3	1210	30	< 0.01	0.04	1.2	201	776	300	2	21.7	386
4/89	GC-2	6.1	770	300	< 0.01	0.02	1.6	89.8	454	280	15	21.0	200
4/89	GC-3	6.2	476	70	0.03	< 0.01	0.9	34.3	296	40	33	8.6	191
4/89	GC-4	6.6	632	190	0.02	< 0.01	0.3	36.9	352	20	73	5.9	185
4/89	GC-5	5.7	329	9.9	< 0.01	0.03	0.7	29.3	204	100	59	13.6	58
4/89	GC-6	6.1	551	6.8	< 0.01	0.02	3.3	64.5	320	200	69	12.3	104
3/89	GC-1	6.6	1160	140	< 0.01	0.06	1.8	168	760	100	< 2	19.5	382
3/89	GC-2	6.5	680	900	0.02	0.03	2.5	90.2	442	200	17	18.0	187
3/89	GC-3	6.7	521	90	< 0.01	0.01	0.6	29.1	304	60	29	6.4	189
3/89	GC-4	6.4	552	40	0.01	0.01	0.8	25.8	316	20	87	5.1	138
3/89	GC-5	6.1	319	14	< 0.01	0.04	1.5	19.7	186	40	30	12.1	90
3/89	GC-6	6.3	527	38	< 0.01	0.02	2.8	59.7	284	80	55	10.7	100

INORGANIC DATA FOR WELLS SURROUNDING STAGE III LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
12/88	GC-1	6.5	1110	150	< 0.01	0.07	1.1	157	682	20	1	19.1	347
12/88	GC-2	6.6	790	50	0.05	< 0.01	1.6	75.8	466	20	59	16.3	198
12/88	GC-3	6.6	548	55	< 0.01	< 0.01	0.2	26.8	294	20	27	8.6	198
12/88	GC-4	6.4	596	110	0.02	0.01	< 0.2	29.6	370	20	21	4.7	169
12/88	GC-5	6.2	374	33	< 0.01	0.04	0.9	11.9	246	60	31	19.2	127
12/88	GC-6	6.9	551	29	< 0.01	0.05	1.6	56.3	320	80	21	13.3	86

INORGANIC DATA FOR WELLS OUTSIDE THE SLURRY WALL LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
2/92	LRII 1	6.3	571	60	0.12	0.02	2.1	27.0	374	250	115	10.8	107
2/92	SMR 1	5.6	266	2.6	<0.01	<0.01	0.8	28.6	178	80	32.3	15.6	38
2/92	SMR 2	7.5	719	0.2	<0.01	<0.01	0.6	97.2	410	0	2.6	6.4	203
2/92	SA 2	7.2	638	1.9	<0.01	<0.01	1.8	29.2	346	50	64.7	11.5	240
2/92	SA 3	7.4	590	5.5	<0.01	0.02	1.8	23.1	380	10	16.3	11.6	273
2/92	SA 4	7.5	662	0.25	<0.01	0.06	1.6	60.4	460	5	59.4	14.1	195
12/91	LRII 1	6.2	635	150	< 0.01	0.02	0.4	32.8	363	150	90.4	12.5	87.6
12/91	SMR 1	5.7	131	5.2	< 0.01	< 0.01	0.2	35.4	169	100	21.3	4.1	41.0
12/91	SMR 2	7.4	172	0.20	< 0.01	< 0.01	1.4	106	406	10	6.07	4.7	204
12/91	SA 2	7.3	567	18	< 0.01	< 0.01	1.0	34.2	340	40	19.7	7.8	235
12/91	SA 3	7.3	636	55	< 0.01	< 0.01	1.9	31.8	224	55	54.1	10.4	252
12/91	SA 4	7.4	661	0.55	< 0.01	< 0.01	2.2	68.7	442	15	56.4	8.0	195
8/91	LRII 5	6.2	205	2.7	<0.01	0.01	1.4	8.45	143	40	3.96	6.4	105
8/91	SMR I	6.7	213	30	<0.01	<0.01	1.6	8.10	162	40	2.90	3.9	124
8/91	SMR II	6.7	375	0.25	<0.01	<0.01	1.6	59.2	315	20	9.38		170
8/91	SA 2	7.4	442	8.0	<0.01	0.01	1.4	29.7	335	20	11.0	11.4	238
8/91	SA 3	7.1	526	0.85	<0.01	<0.01	0.5	27.7	379	30	34.3	11.2	287
8/91	SA 4	7.4	589	1.10	<0.01	<0.01	1.7	65.7	433	40	62.8	7.0	203
5/91	LRII-5	6.6	509	5.3	0.01	< 0.01	1.8	26.2	344	70		4.96	
5/91	SMR 1	7.4	571	0.80	< 0.01	< 0.01	2.0	99.7	411	5		3.34	
5/91	SMR 2	5.6	196	2.6	< 0.01	< 0.01	1.6	33.1	171	60		12.3	
5/91	SA 2	7.4	625	0.90	< 0.01	0.01	0.7	66.3	413	0		7.00	
5/91	SA 3	6.6	300	6.4	< 0.01	< 0.01	2.0	7.6	200	50		10.5	
5/91	SA 4	8.2	566	36	< 0.01	0.37	1.7	63.2	441	10		9.99	
3/91	LRII-5	6.1	170	37	<0.01	0.01	1.1	16.0	135		17.8	10.4	
3/91	SMR 1	5.7	258	20	<0.01	0.01	1.4	28.6	221		32.7	17.0	
3/91	SMR 2	7.4	605	0.60	<0.01	0.01	0.6	79.2	413		8.2	5.0	
3/91	SA 2	7.4	477	3.0	<0.01	0.02	0.6	30.1	359		24.9	13.1	
3/91	SA 3	7.3	548	12	<0.01	<0.01	1.0	29.3	426		57.5	12.8	
12/90	LRII-5	6.5	343	5.5	< 0.01	0.02	1.5	13.3	246	160	4.6		
12/90	SMR I	5.9	234	17	0.01	0.04	1.9	103	188	60	41.1	14.5	
12/90	SMR II	8.2	560	25	0.01	0.03	1.1	65.9	394	30	6.8	4.5	
12/90	SA2	7.1	575	25	< 0.01	0.01	1.5	34.2	371	50	25.3	11.6	
12/90	SA3	7.1	625	4.2	< 0.01	< 0.01	1.0	3.30	385	40	71.8	11.0	
12/90	SA4	8.2	594	2200	< 0.01	< 0.01	1.7	31.9	216	30	70.9	9.5	

INORGANIC DATA FOR WELLS OUTSIDE THE SLURRY WALL LENA ROAD LAND FILL

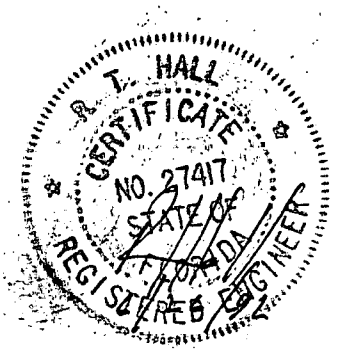
DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICAR ALKALIN
8/90	LR II 5	6.0	157	30	0.02	0.02	0.8	16.7	115	9.6			
8/90	SMR 1	5.7	239	12	0.02	0.03	0.5	30.4	201	13.6			
8/90	SMR 2	7.5	561	1.5	0.02	0.02	0.5	95.8	422	4.6			
8/90	SA 2	7.4	504	12	0.02	0.04	1.2	28.8	341	11.8			
8/90	SA 3	7.2	591	1.5	0.02	0.02	1.0	25		10.6			
8/90	SA 4	7.4	664	5	0.02	0.03	0.9	732	452	7			
6/90	LRII 5	6.7	311	32	<0.01	0.02	0.6	9.17	209	100	2.6	10.8	161
6/90	SMR 1	5.9	275	11	<0.01	0.26	0.9	37.3	179	100	20.3	7.9	56
6/90	SMR 2	7.5	628	1	<0.01	0.2	0.5	162	409	20	5.5	3.4	200
6/90	SA 2	6.4	502	9	<0.01	0.02	1.2	35.2	380	40	20.7	9.0	249
6/90	SA 3	7.4	537	2.2	<0.01	0.04	28.0		616	30	38.7	8.8	279
6/90	SA 4	7.4	596	4	<0.01	0.02	1.0	75.6	424	30	60	6.6	206
3/90	LR-II-5	6.6	446	29	<0.01	0.01	0.6	10.2	251	120	1	10.7	175
3/90	SMR-1	5.6	330	35	<0.01	0.01	1.3	30.6	180	50	33	14.9	46
3/90	SMR-2	7.2	779	19	<0.01	0.01	1.0	104.0	424	20	4	4.2	195
3/90	SA-2	7.3	615	32	0.02	0.07	2.3	29	352	30	22	11.6	242
3/90	SA-3	7.3	620	29	<0.01	<0.01	2.3	10.0	413	40	46	11.8	264
3/90	SA-4	7.6	667	24	<0.01	<0.01	1.5	67.7	422	40	44	9.0	254
8/89	LRII-5	6.6	440	10	< 0.01	< 0.01	2.1	12.5	262	40	2	11.1	197
8/89	SMR-1	5.6	276	4.5	< 0.01	0.01	1.1	30.0	184	30	34	14.4	51
8/89	SMR-2	6.6	705	3.0	< 0.01	0.03	1.3	108	402	10	5	6.4	195
8/89	SA-2	6.7	546	40	< 0.01	< 0.01	2.0	22.8	319	10	2	14.9	241
8/89	SA-3	6.9	670	14	< 0.01	0.04	1.1	29.8	284	30	26	11.3	293
8/89	SA-4	7.3	669	36	< 0.01	0.03	1.0	67.5	472	20	82	13.0	201

INORGANIC DATA FOR WELLS OUTSIDE THE SLURRY WALL LENA ROAD LAND FILL

DATE	WELL IDENT.	pH	CONDUCT.	TURB.	NITRITE	NITRATE	TKN	CHLORIDE	TDS	TRUE COLOR	SULFATE	TOC	BICARB. ALKALINITY
12/88	LR II-5	6.8	454	55	< 0.01	0.06	0.8	12.9	334	50	17	16.9	219
12/88	SMR-1	6.2	409	360	< 0.01	< 0.01	1.3	28.0	376	500	21	18.5	92
12/88	SMR-2	7.1	618	2.4	< 0.01	0.02	0.3	79.6	368	5	1	3.1	174
12/88	SA-2	7.3	545	1.5	< 0.01	< 0.01	0.6	23.3	288	20	5	10.1	227
12/88	SA-3	8.9	328	4.3	< 0.01	< 0.01	1.1	20.1	184	20	9	13.1	115
12/88	SA-4	11.0	938	7.4	0.03	1.07	0.9	45.2	358	10	18	4.1	< 1

Groundwater
Elevations Table

STATISTICS FOR EACH WELL NVGD OVER THE PERIOD OF THIS STUDY. THESE RESULTS SUGGEST ONLY MARGINAL FLUCUATIONS FOR EACH CITE OVER TIME



ACCUMULATED NVGD DATA FOR ALL WELLS

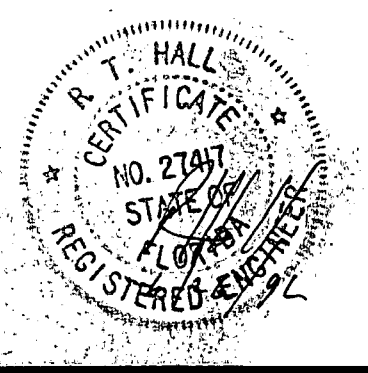
WELL IDENT.	2/92 NVGD	12/91 NVGD	8/91 NVGD	5/91 NVGD	3/91 NVGD	12/90 NVGD	8/90 NVGD	6/90 NVGD	3/90 NVGD	8/89 NVGD	4/89 NVGD	3/89 NVGD	12/88 NVGD
MW 1	30.22	29.47	32.93	31.35	29.35	29.55	29.93	29.43	32.18	36.35	32.22	32.85	33.01
MW 2	32.61	30.6	31.1	31.1	30.69	30.77	31.19	30.27	31.02	30.02	30.48	30.69	34.6
MW 3	32.07	29.74	33.32	30.15	29.65	30.74	29.24	32.99	32.82	32.4	30.78	32.15	34.72
CW 4	35.62	31.54	32.54	33.01	33.79	32.46	29.87	30.29	33.79	32.91	30.96	30.83	32.29
CW 5	37.25	35.42	38	36.5	36.25	36.33	34.33	34.25	38.48	38.46	34.17	36	35.5
GC 1	27.11	26.11	26.94	27.78	31.36	27.03	26.19	24.28	26.61	26.2	26.36	27.03	26.86
GC 3	30.87	28.45	32.08	31.08	31.12	31.25	30.58	27.83	30.75	27.91	29.41	31.08	29.87
GC 4	28.31	26.31	28.81	29.48	33.98	27.48	27.19	25.35	28.22	28.98	27.48	28.9	27.81
SA 3	13.12	13.66	18.62	14.54	20.2	13.79	14.62	5.37	13.62	12.54	8.12	10.87	14.12
SA 4	9.78	14.61	19.03	12.53	31.28	13.2	8.28	15.58	11.58	12.2	6.28	9.28	11.78
GC 2	33.51	30.77	33.73	32.98	32.81	33.73	33.23	30.81	33.65	30.15	32.6	33.4	33.42
GC 6	31.56	30.77	31.35	32.85	32.18	30.85	30.77	30.85	31.52	31.35	31.1	30.77	31.1
SA 2	19.77	21.27	21.22	18.97	20.22	20.55	20.97	30.6	30.07	19.72	11.97	16.95	20.14
SA 5	16.42	19.32	21.84	15	15.92	16.67	13.92	8.17	26.12	14.34	8.42	11.76	14.92
LRII 1	33.39	30.96	34.27	33.52	33.5	34.27	32.77	30.86	33.27	32.77	32.06	33.9	32.77
LRII 3	26.63	25.26	28.09	29.01	25.34	27.01	25.26	24.51	26.93	27.84	25.68	27.38	27.34
LRII 4	26.94	25.82	28.82	29.65	26.65	27.24	25.9	24.73	27.23	28.4	26.52	28.07	28.36
LRII 5	31.6	28.99	32.28	32.78	31.2	30.45	29.45	27.53	30.72	31.78	29.11	30.45	30.15
SA 7	12.17	16.17	18.27	9.1	11.35	11.85	13.94	3.02	10.02	5.1	4.77	10.15	9.27
SA 8	12.88	15.78	18.31	8.31	21.98	34.48	14.15	4.4	11.4	9.73	6.23	10.18	12.85
SMR 1	31.4	29.48	30.3	32.15	31.31	31.23	29.48	29.81	30.73	31.08	28.56	29.9	29.48
SMR 2	16.4	19.3	20.18	15.02	15.18	15.27	24.68	9.35	15.18	11.8	11.22	15.47	15.6
SA 6	15.14	18.74	19.12	13.79	14.29	15.21	27.71	7.29	14.94	11.04	10.96	12.54	12.04
LRII 2	30.37	29.2	32.45	32.86	30.45	30.78	29.61	28.2	30.74	30.28	28.36	30.03	30.03
MW 6	33.19	32.22	34.02	33.49	33.24	32.9	32.74	31.86	33.24	32.99	31.65	33.24	33.03
GC 5	29.19	27.94	29.02	30.27	28.44	28.27	28.27	27.81	28.89	29.02	28.52	29.02	28.52

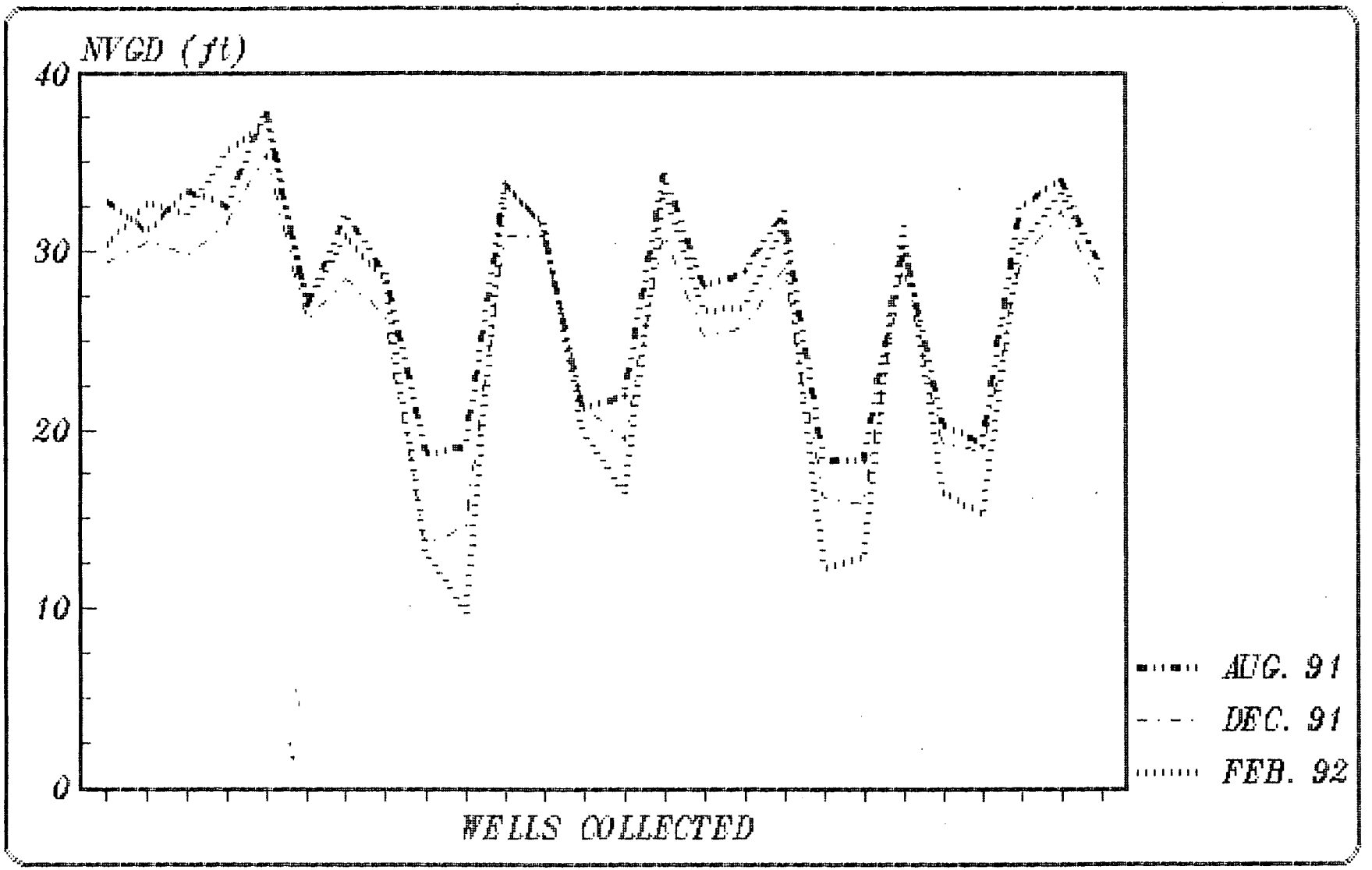
STATISTICS FOR COLLECTIONS FROM DEC. 1988 THRU FEB. 1992

WELL IDENT.	MEAN NVGD	STANDARD DEVIATION	% COEFFICIENT VARIANCE
MW 1	31.449	1.992	6.333
MW 2	31.165	1.158	3.715
MW 3	31.598	1.608	5.090
CW 4	32.300	1.542	4.773
CW 5	36.226	1.449	4.001
GC 1	26.912	1.509	5.607
GC 3	30.175	1.318	4.367
GC 4	28.331	1.965	6.937
SA 3	13.322	3.685	27.663
SA 4	13.493	6.030	44.688
GC 2	32.676	1.205	3.686
GC 6	31.309	0.596	1.905
SA 2	20.955	4.652	22.198
SA 5	15.602	4.740	30.383
LRII 1	32.947	1.057	3.209
LRII 3	26.637	1.282	4.814
LRII 4	27.256	1.320	4.844
LRII 5	30.499	1.415	4.638
SA 7	10.398	4.218	40.567
SA 8	13.898	7.503	53.984
SMR 1	30.378	0.988	3.251
SMR 2	15.742	3.833	24.348
SA 6	14.832	4.807	32.413
LRII 2	30.258	1.289	4.261
MW 6	32.908	0.632	1.920
GC 5	28.706	0.615	2.143

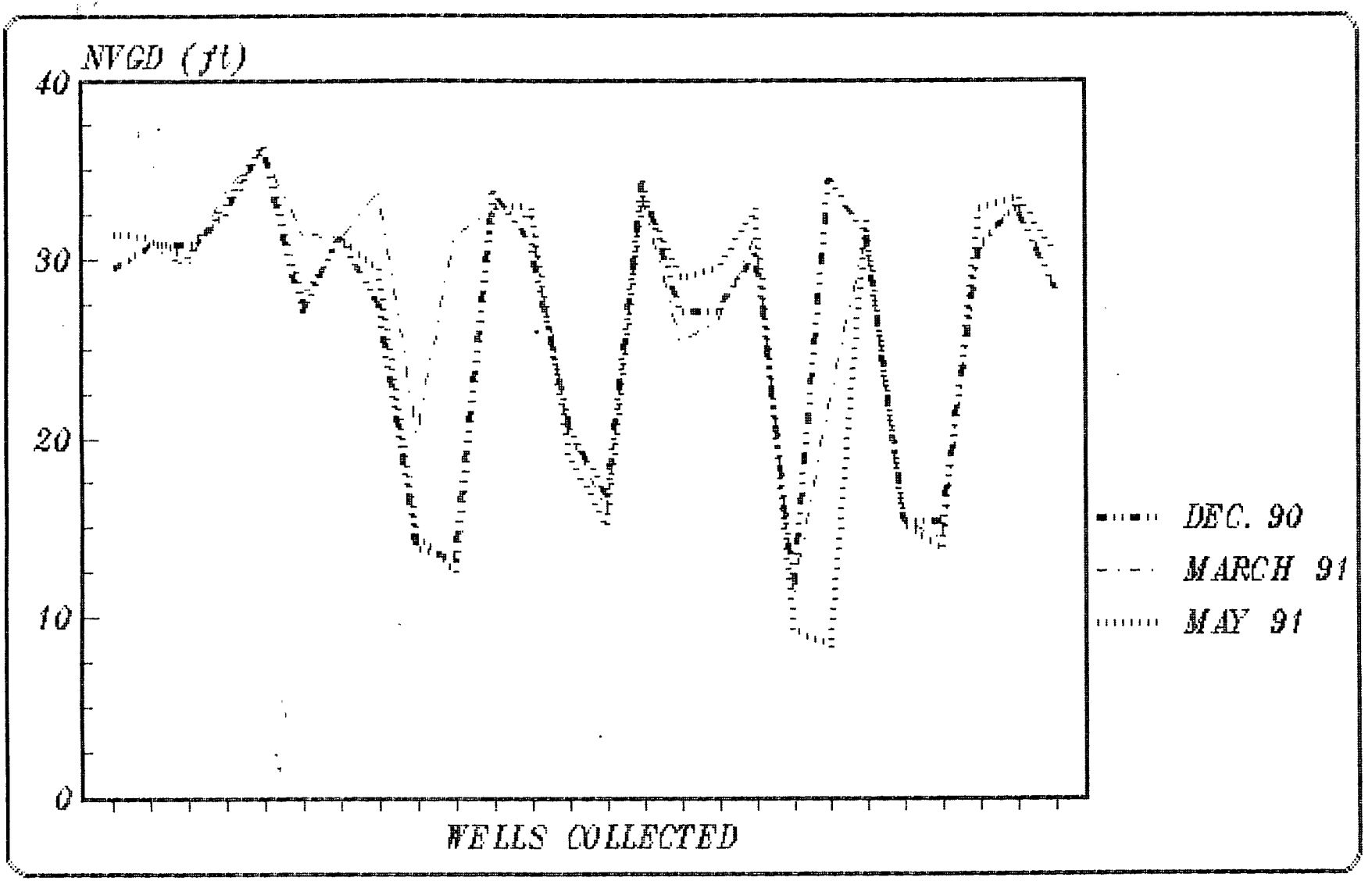
Groundwater
Elevations Graphs

THESE MARGINAL FLUCTUATIONS IN EACH WELL NVGD ARE GRAPHICALLY DEPICTED OVER THE STUDY PERIOD. AGAIN SUGGESTING NO APPRECIABLE TRENDS OR TENDENCIES

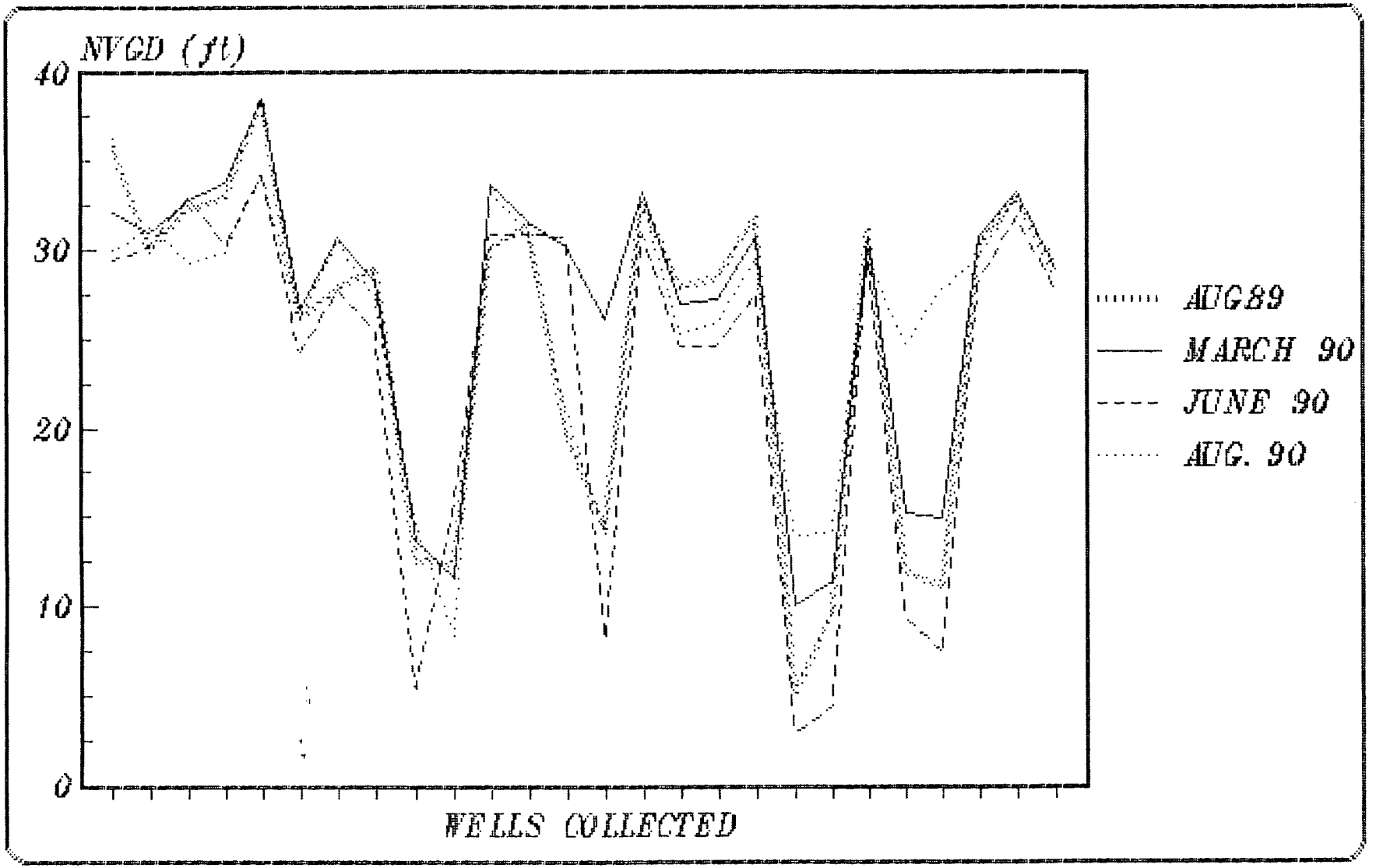




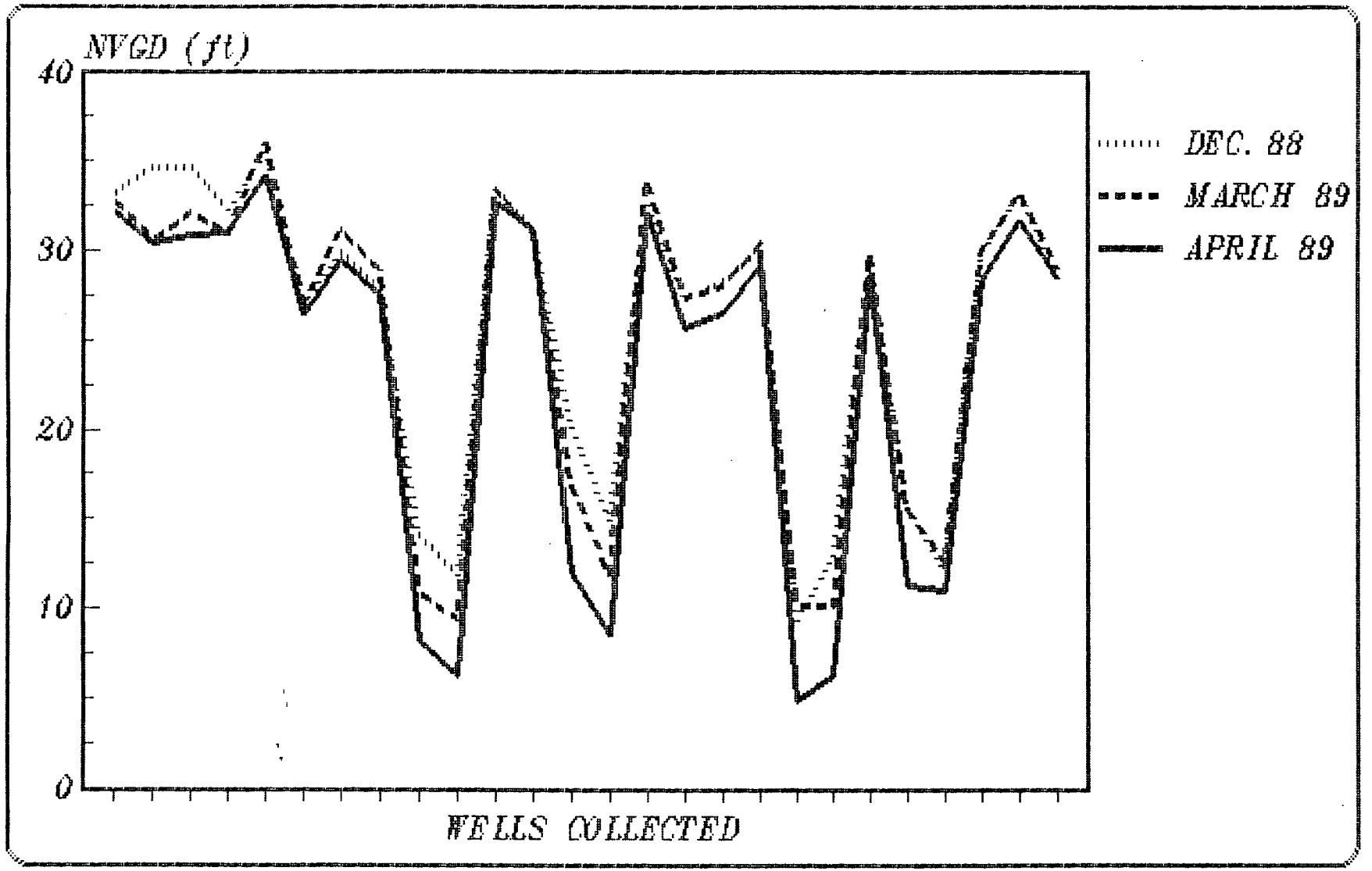
Graph-in-the-Box EXECUTIVE



Graph-in-the-Box EXECUTIVE

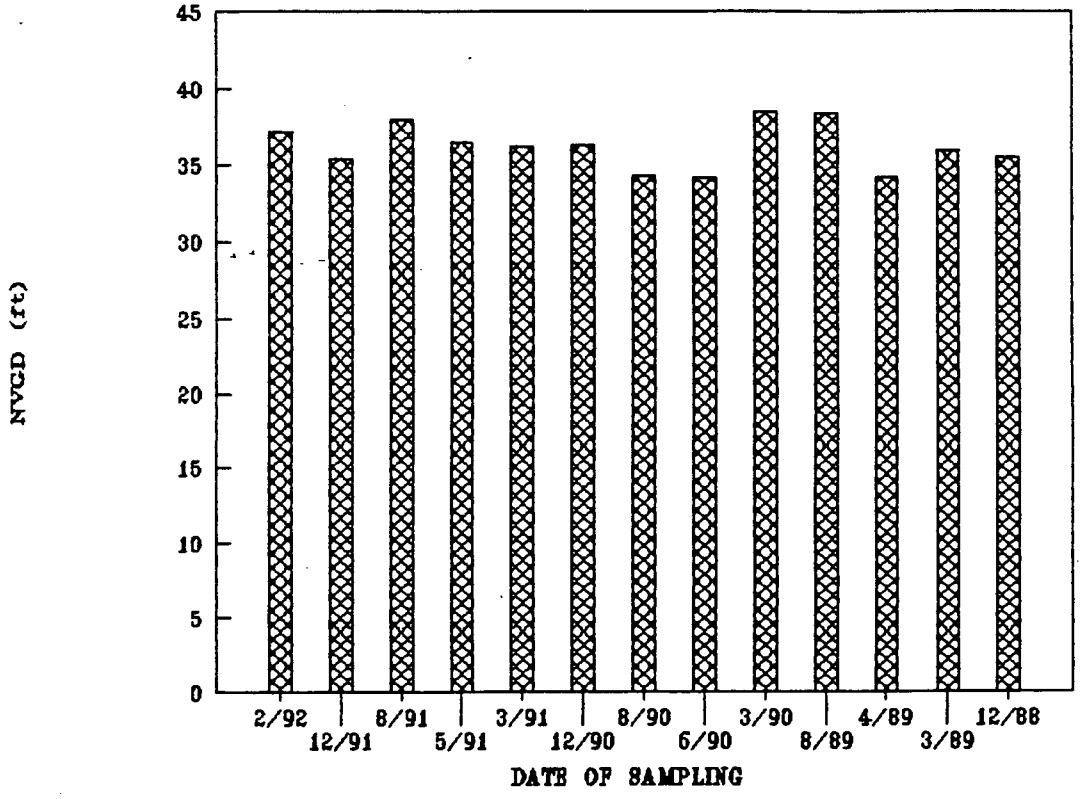


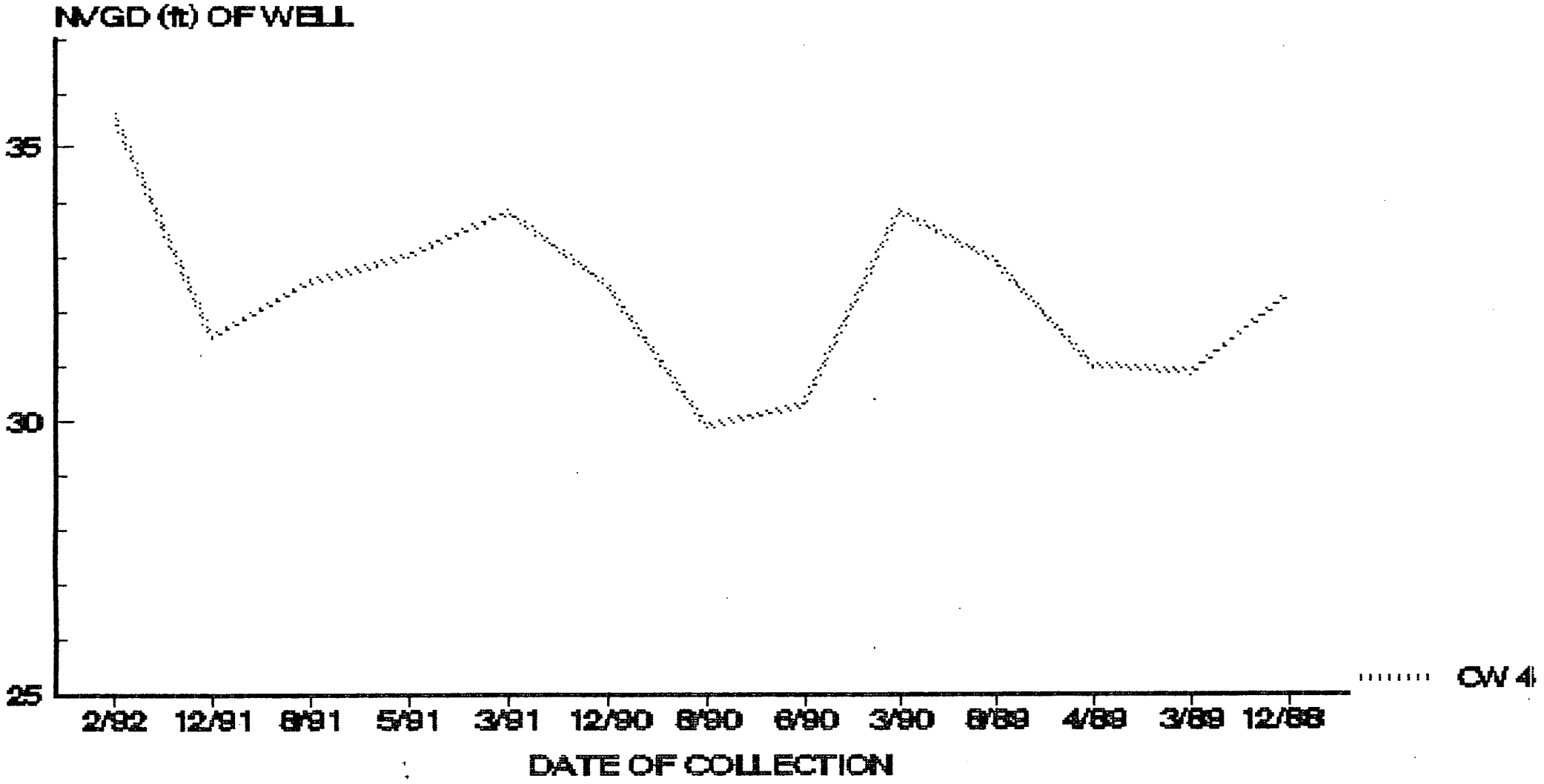
Graph-in-the-Box EXECUTIVE



Graph-in-the-Box EXECUTIVE

ACCUMULATED NVGD FOR CW5

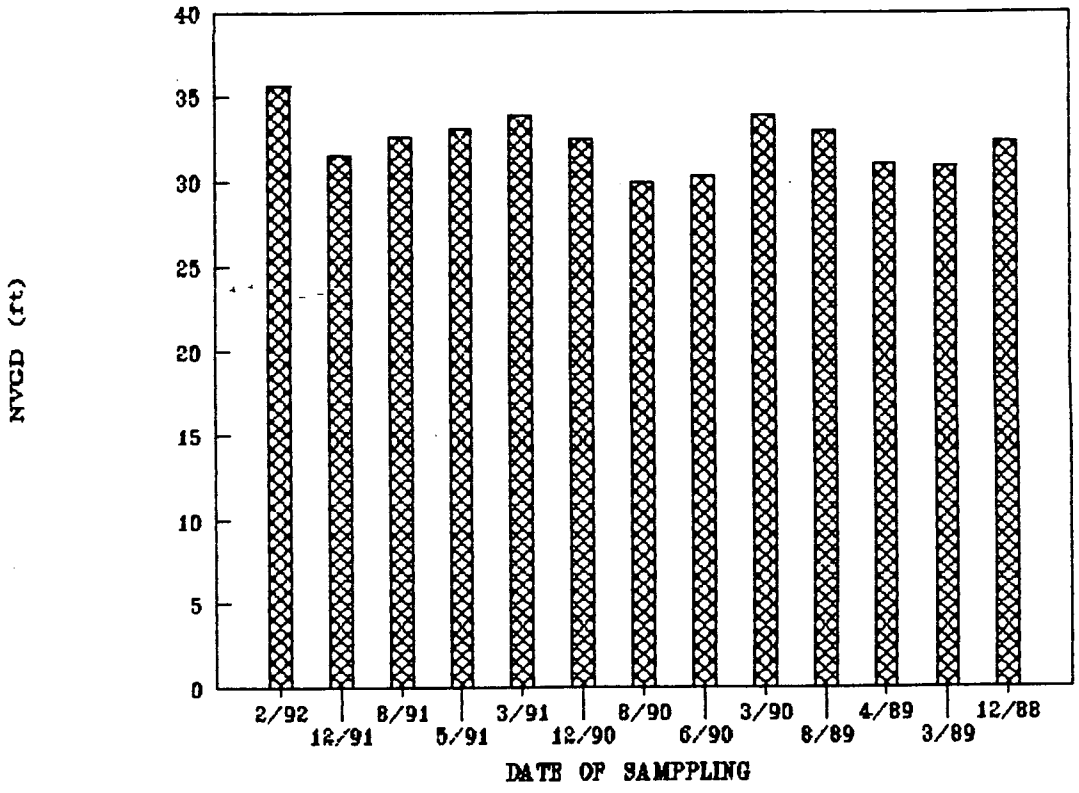


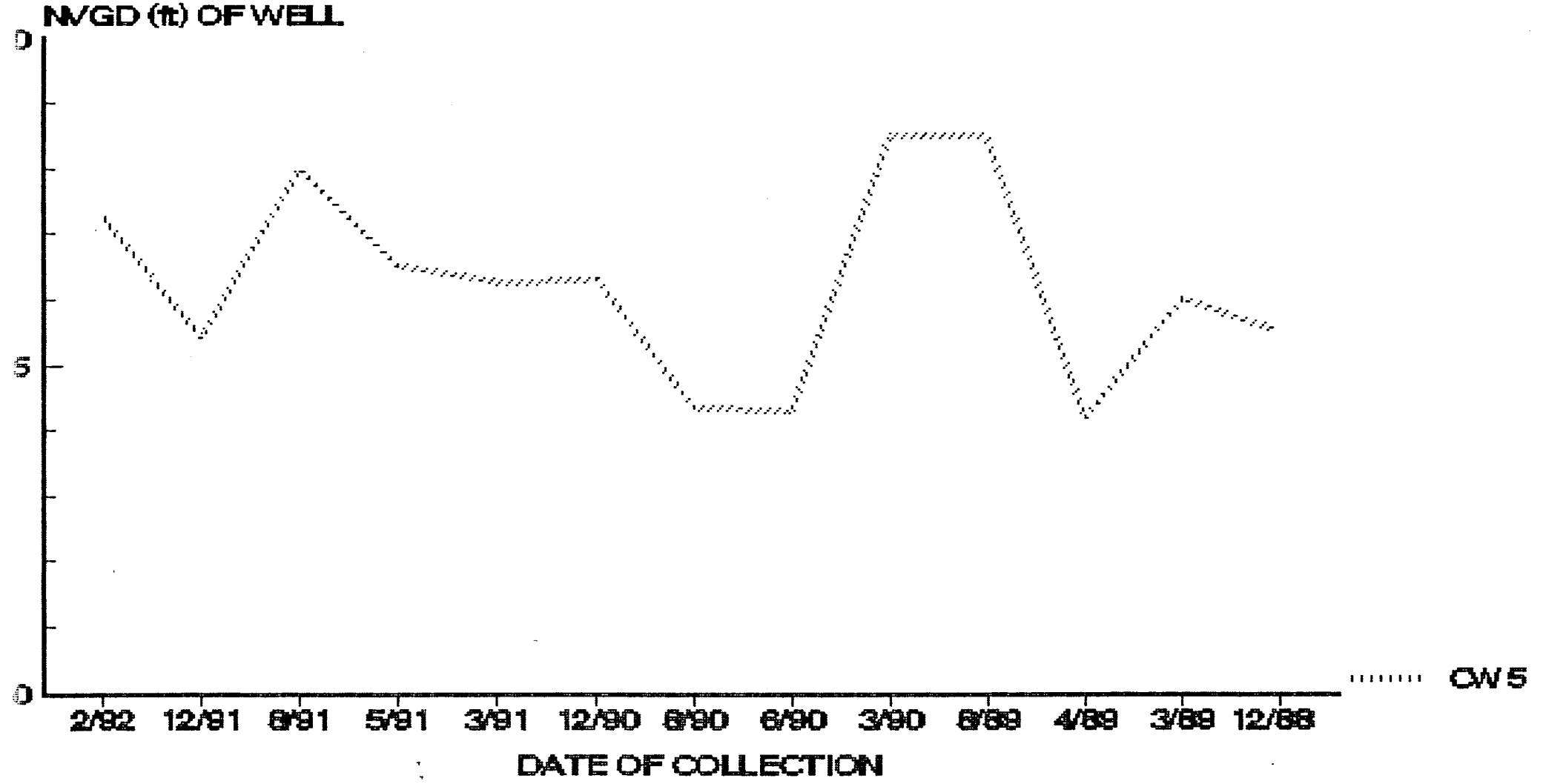


LANDFILL NVGD FOR WELLS

SMRE

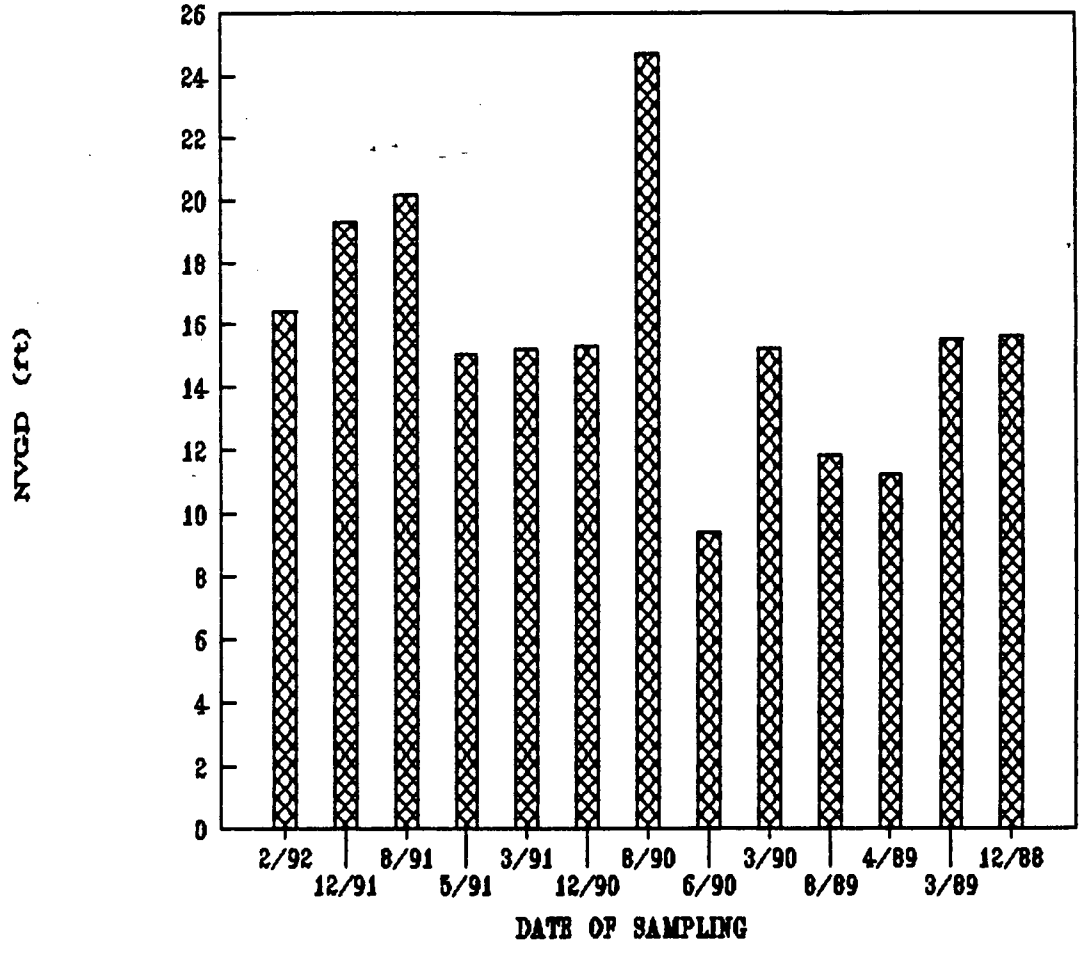
ACCUMULATED NVGD FOR CW4

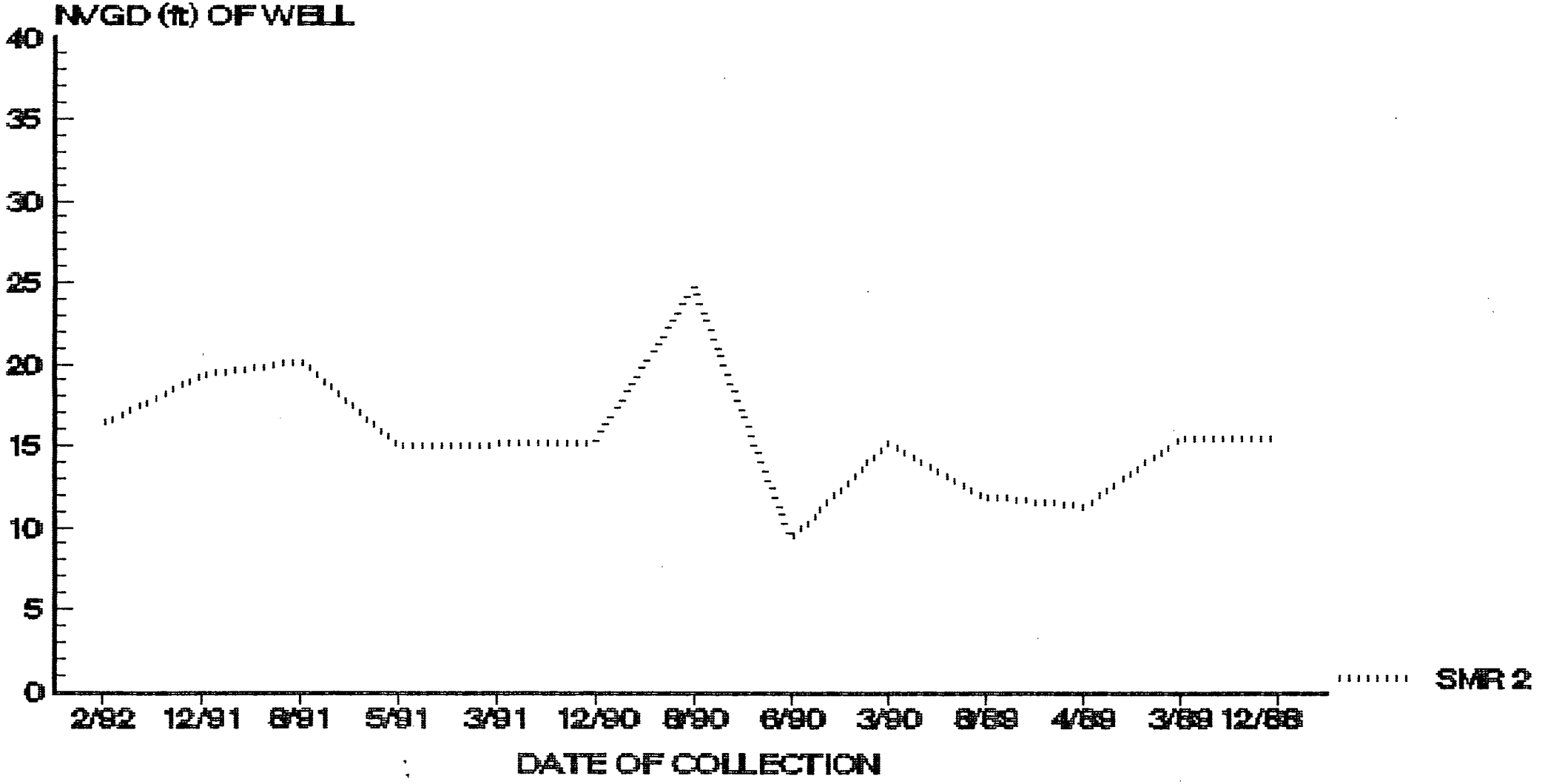




LANDFILL NVGD FOR WELLS

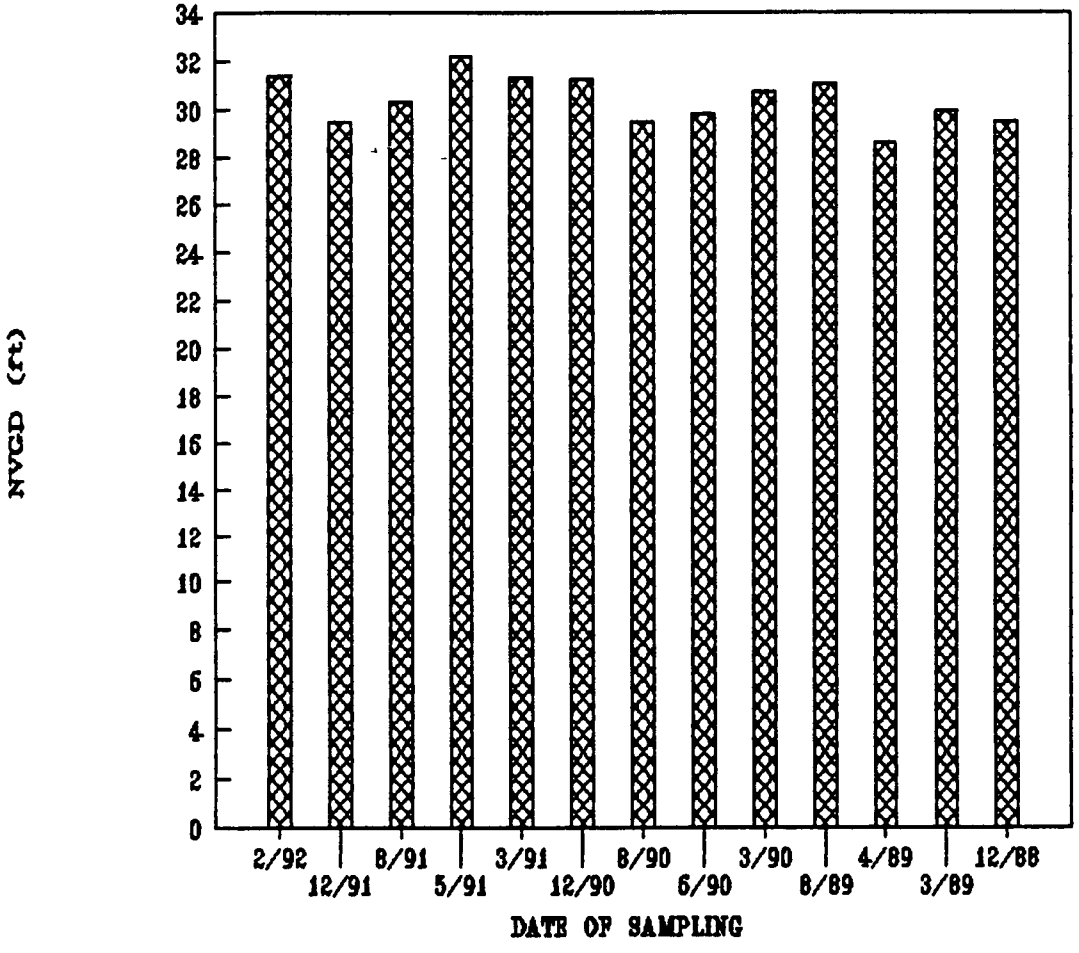
ACCUMULATED NVGD FOR SMR 2

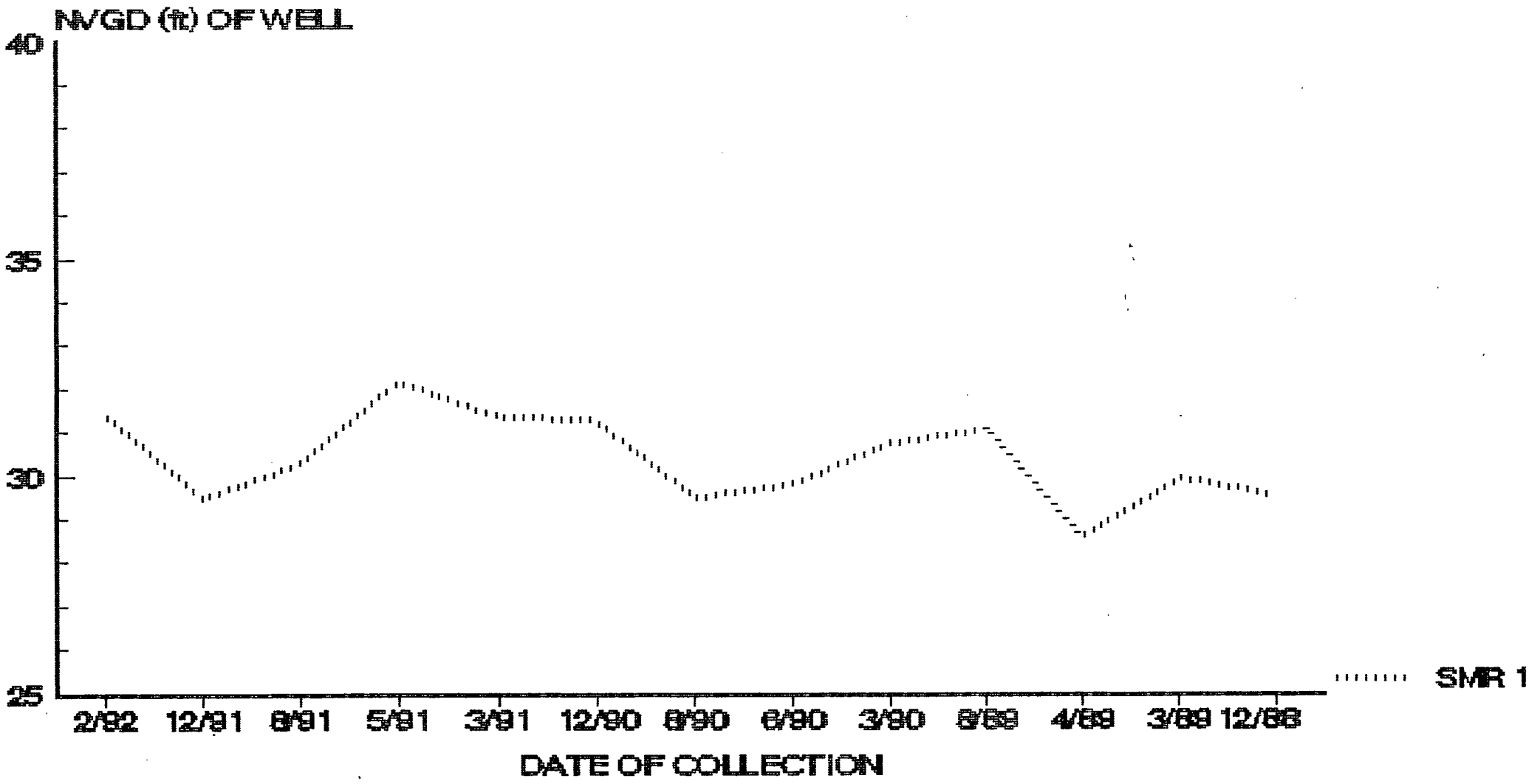




LANDFILL NVGD FOR WELL 8 SMR2

ACCUMULATED NVGD FOR SMR 1

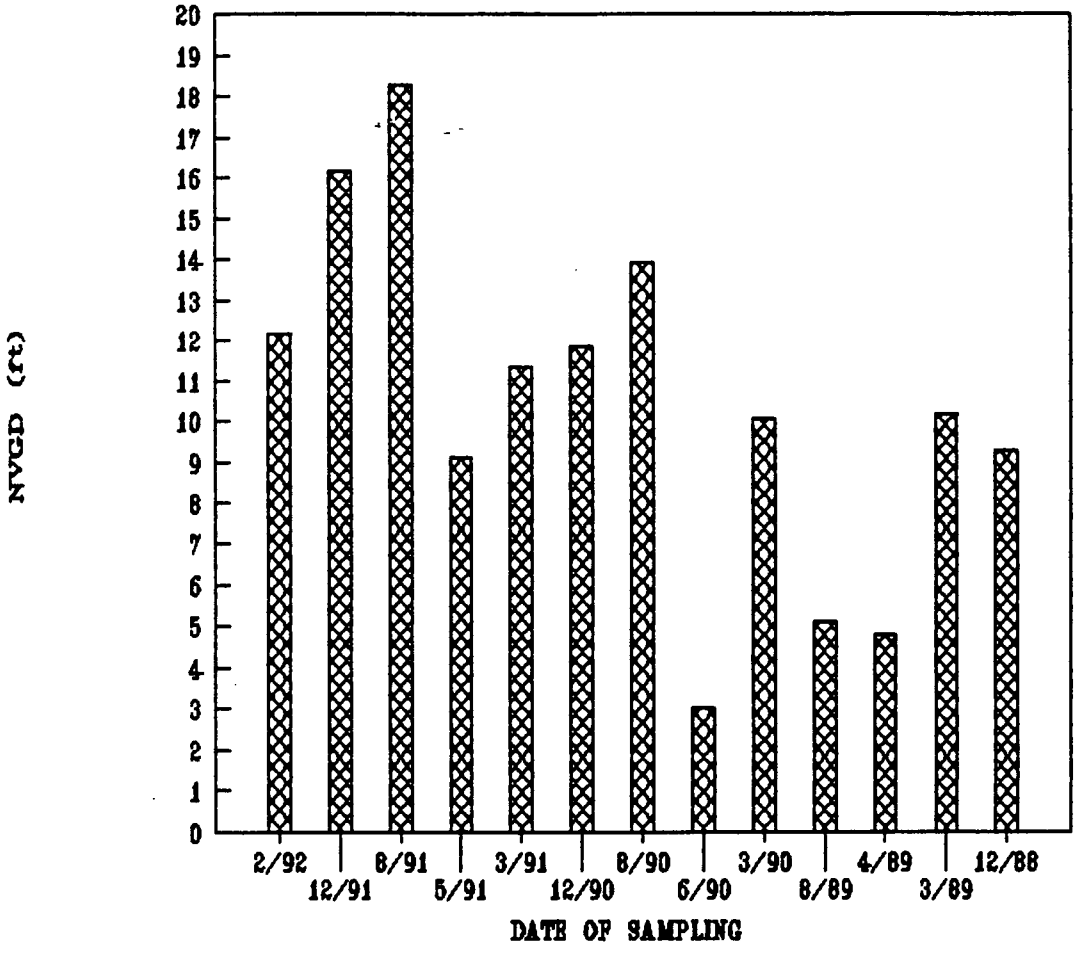


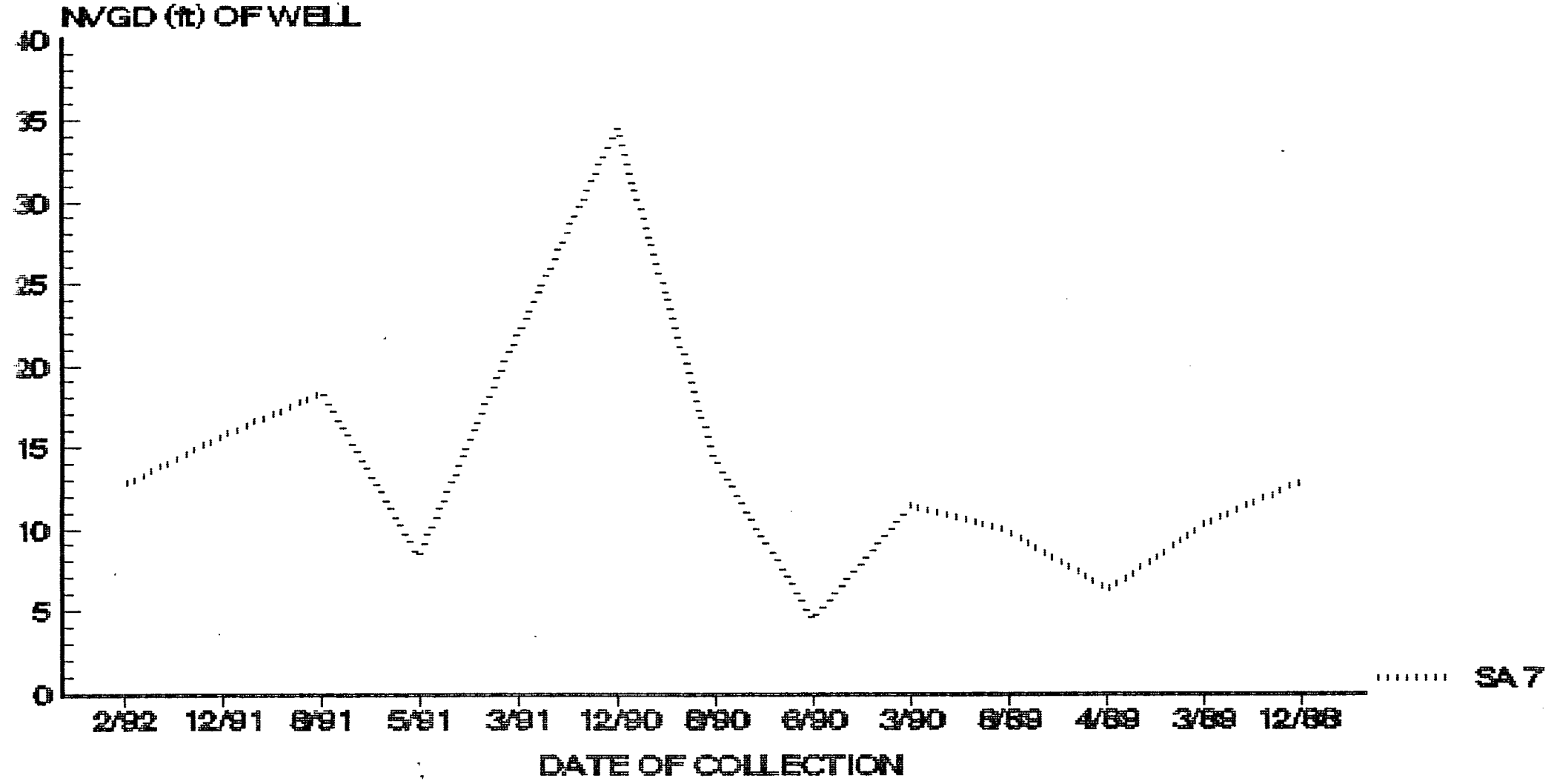


LANDFILL NVGD FOR WELLS

SMR1

ACCUMULATED NVGD FOR SA 7

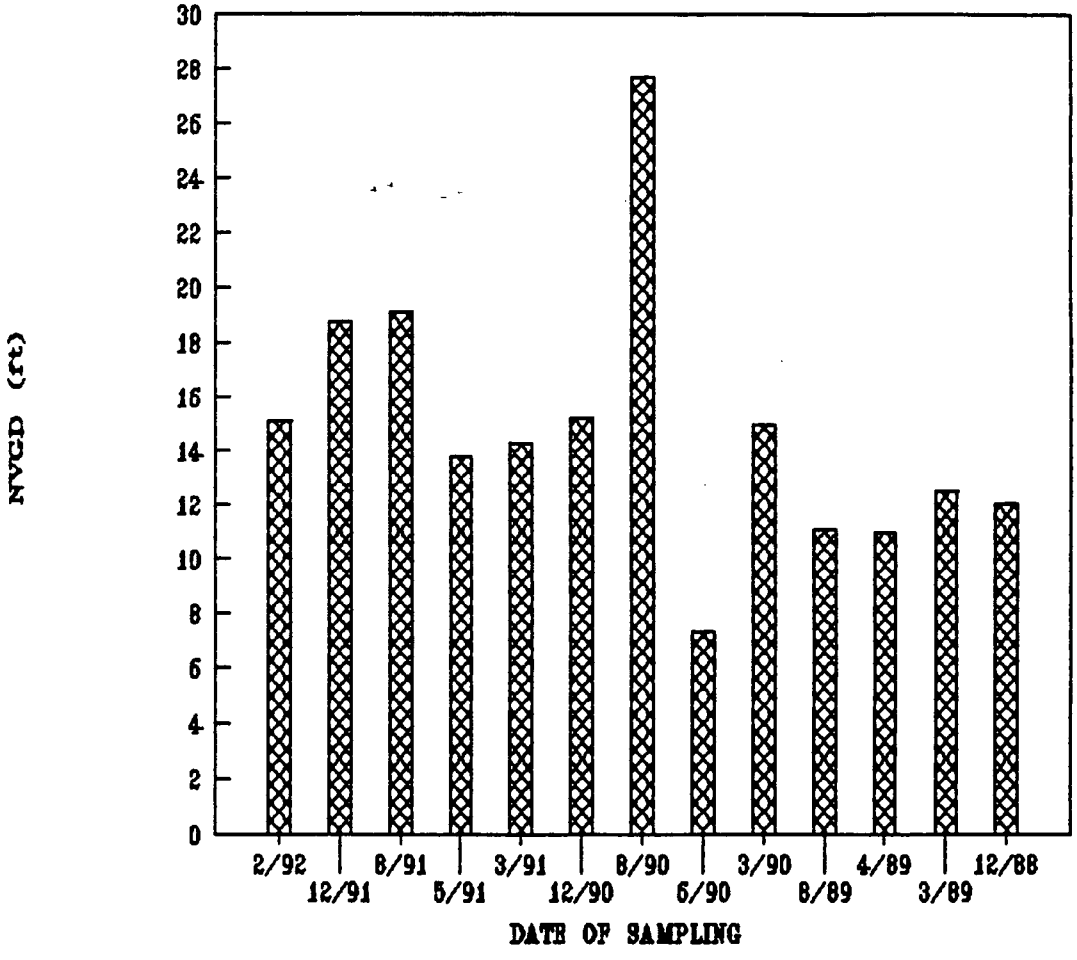


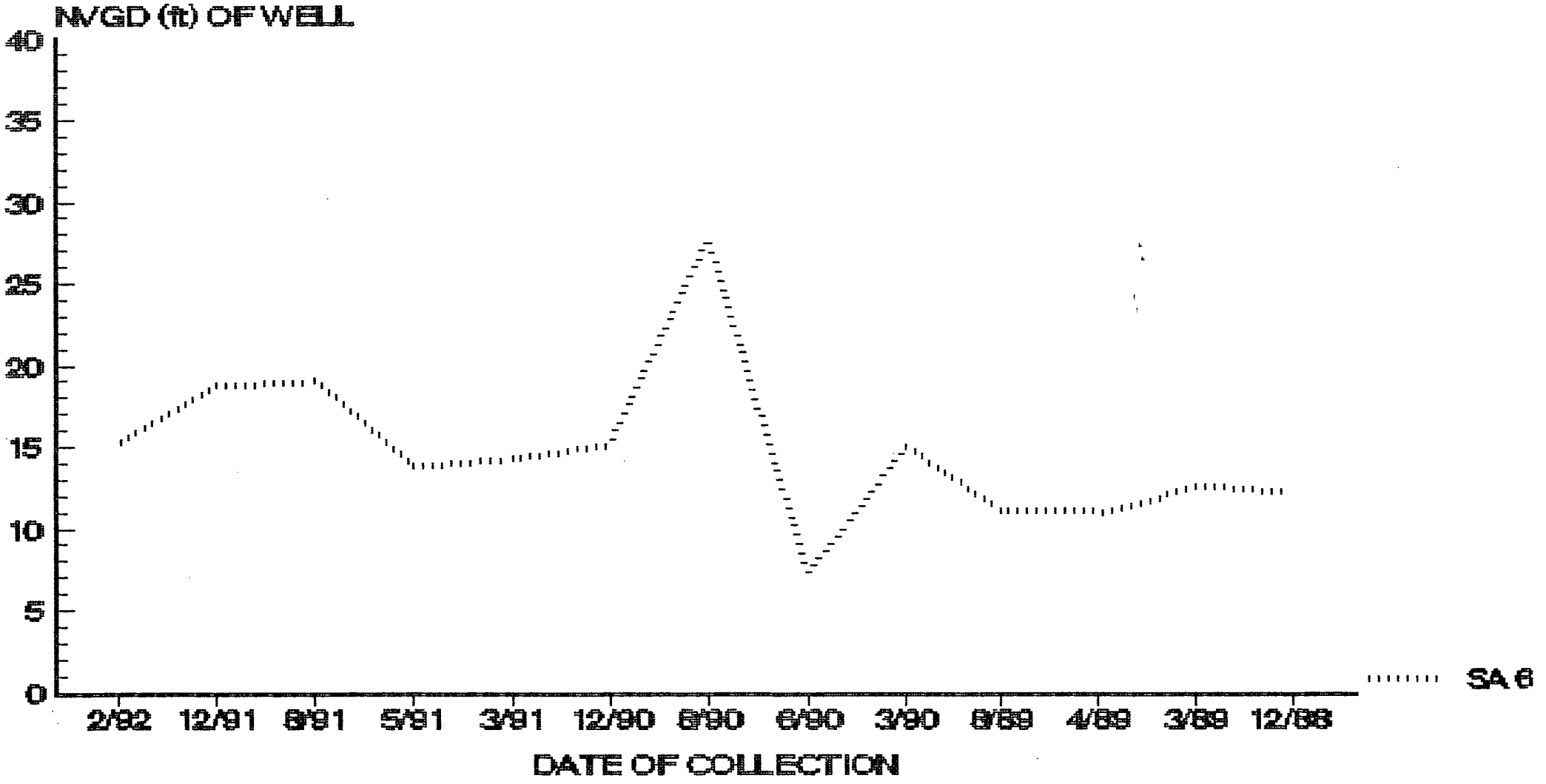


LANDFILL NVGD FOR WELLS

SNB

ACCUMULATED NVGD FOR SA 6

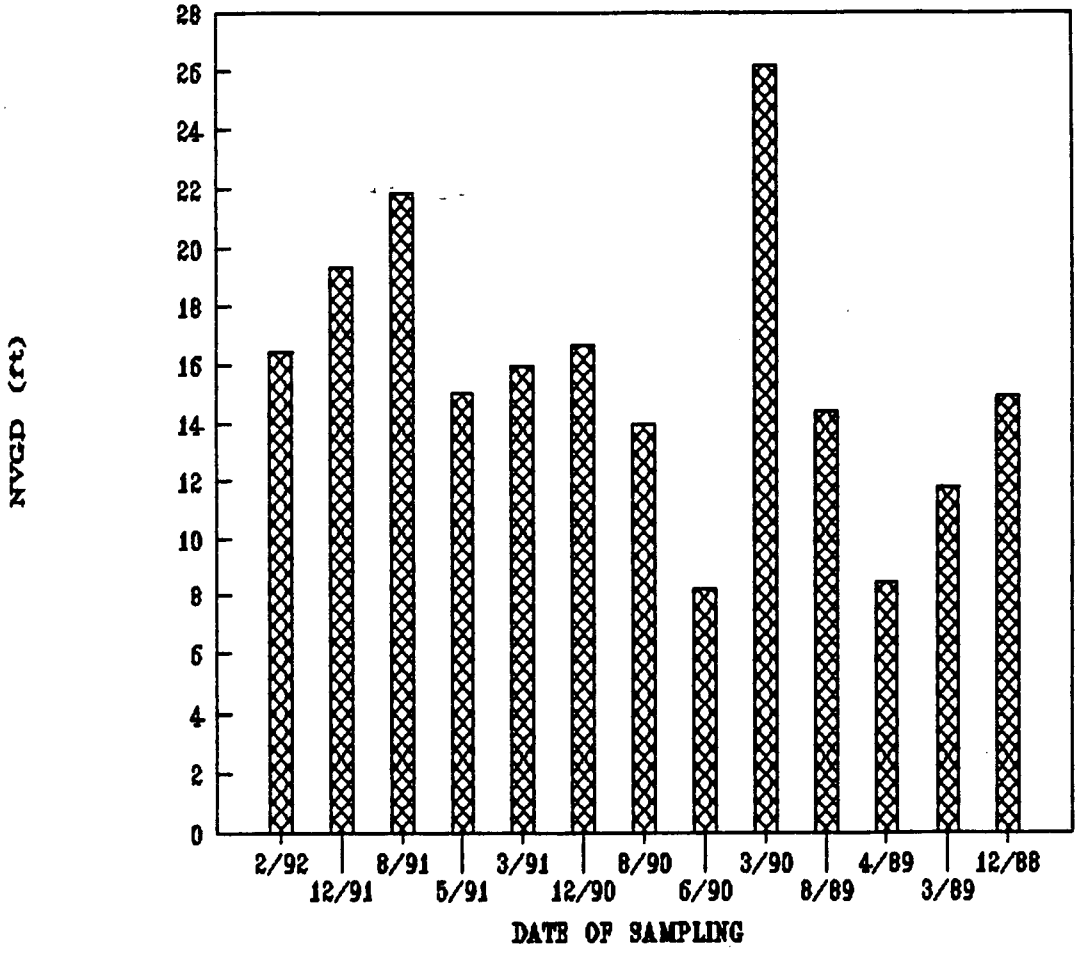


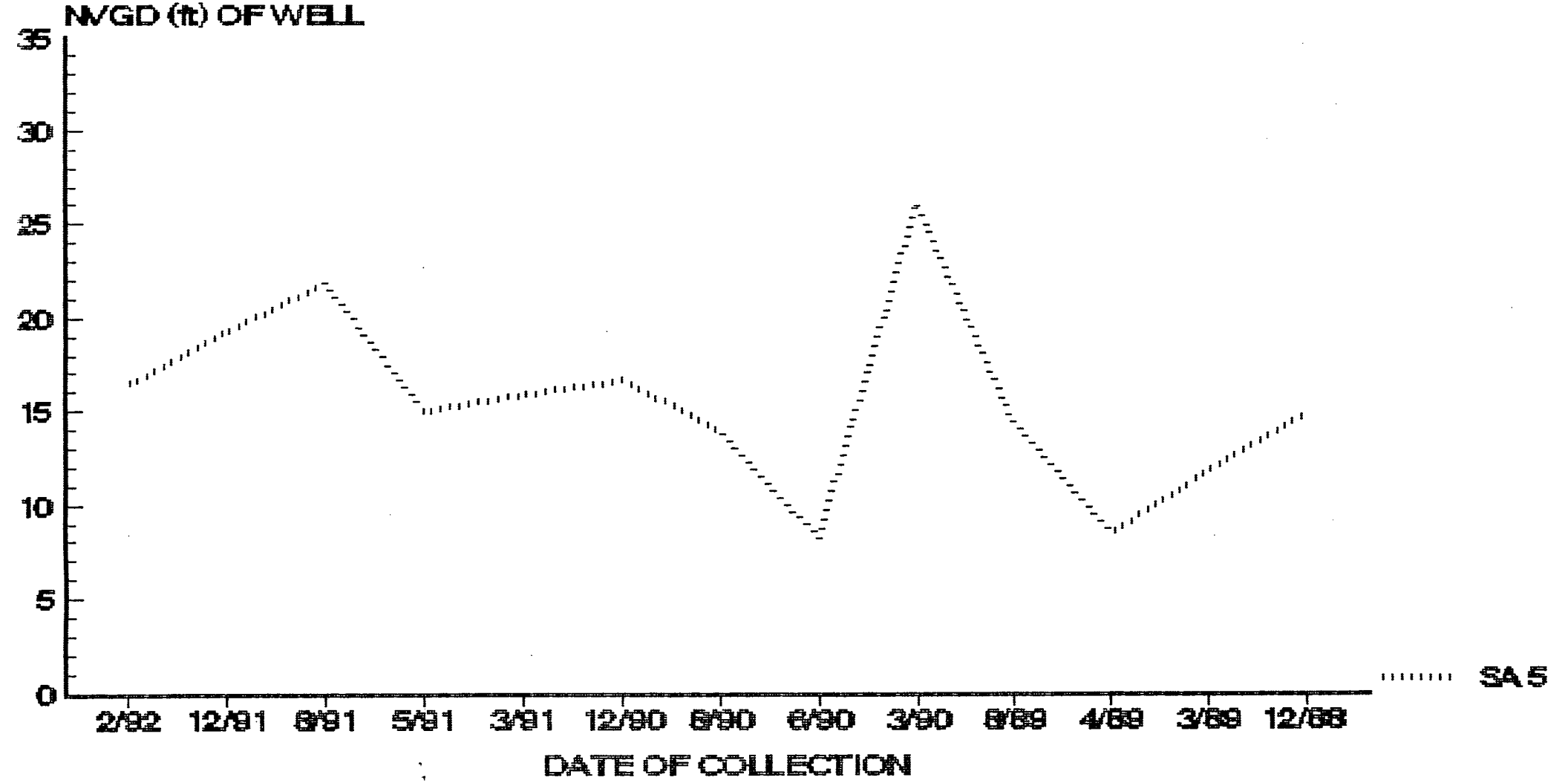


LANDFILL NVGD FOR WELL8

8/48

ACCUMULATED NVGD FOR SA5

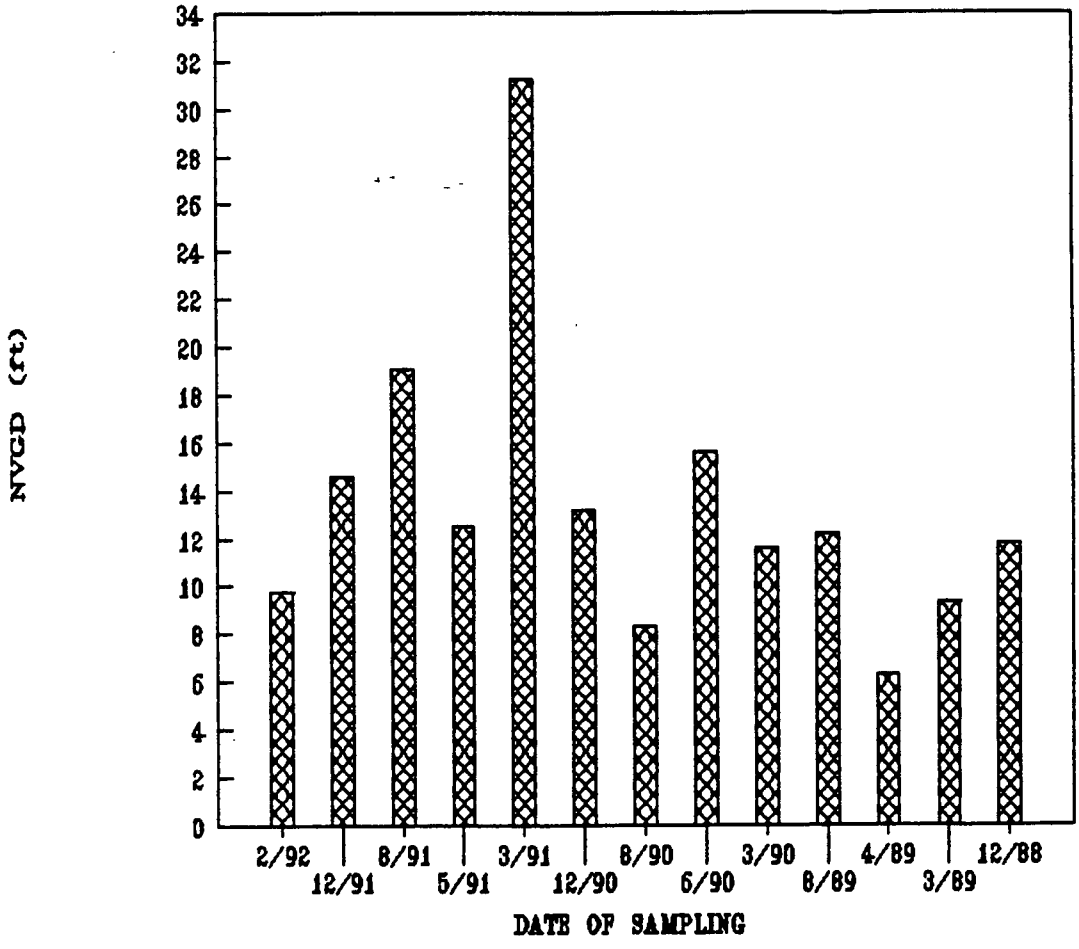


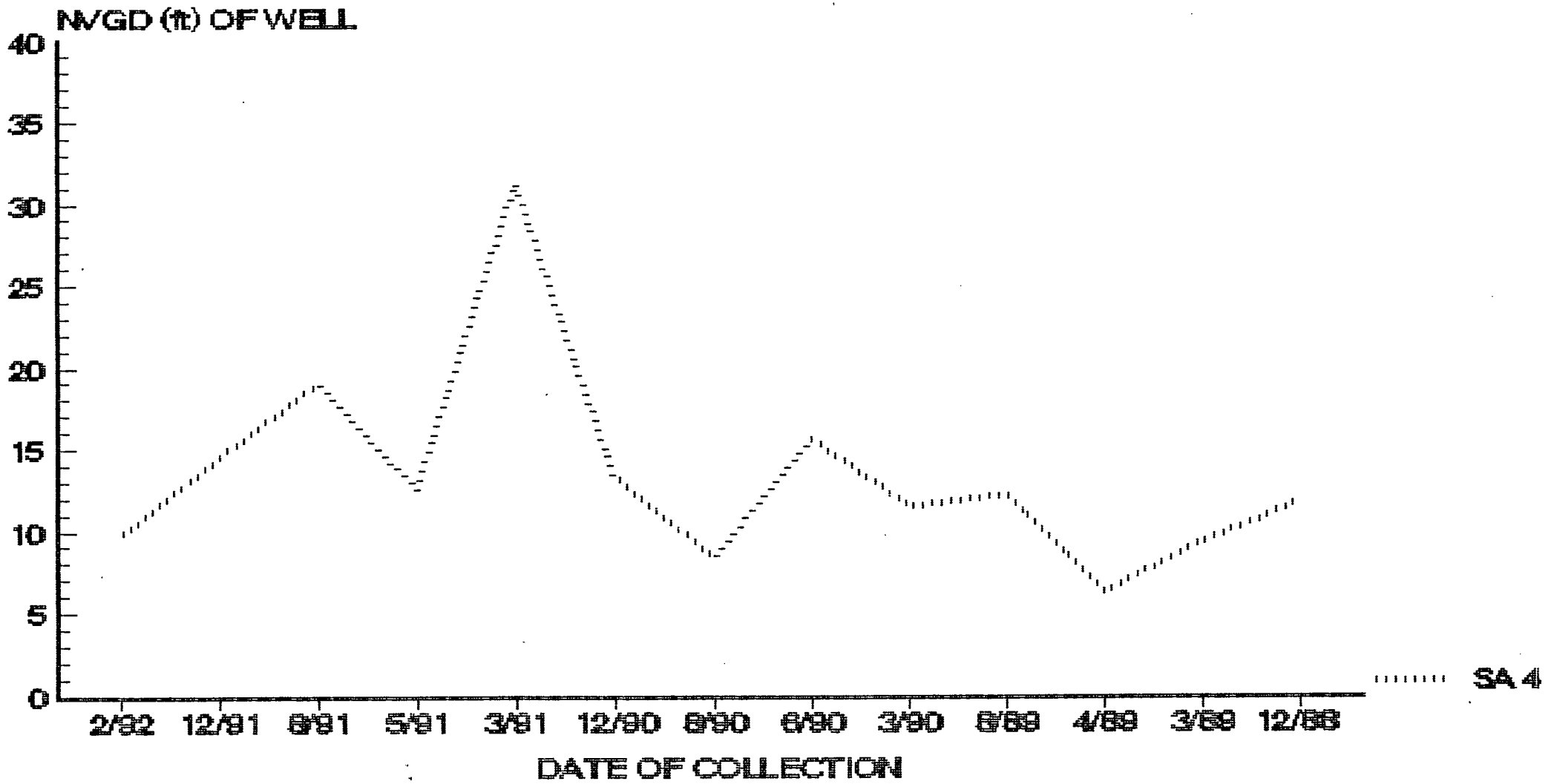


LANDFILL NVGD FOR WELLS

SA5

ACCUMULATED NVGD FOR SA4

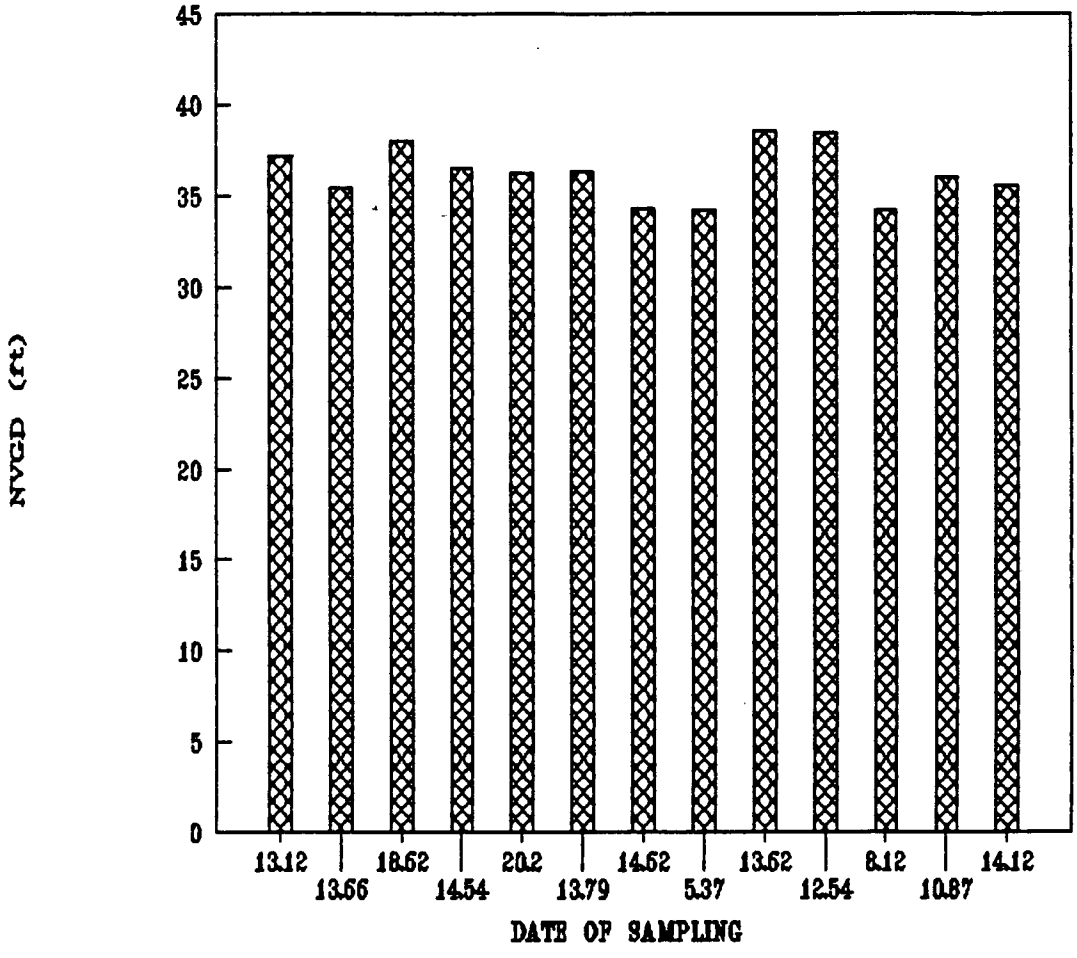


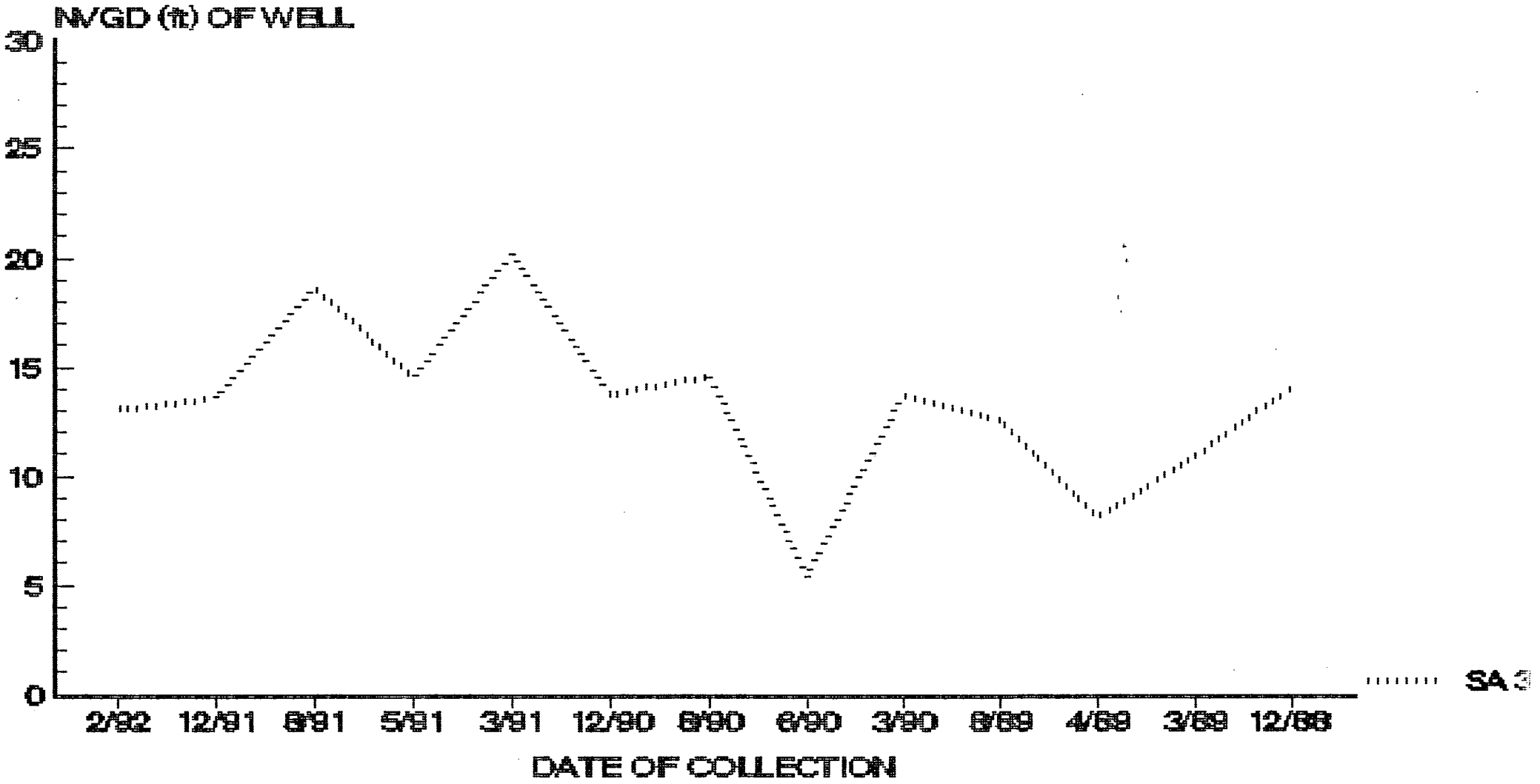


LANDFILL NVGD FOR WELL8

8A4

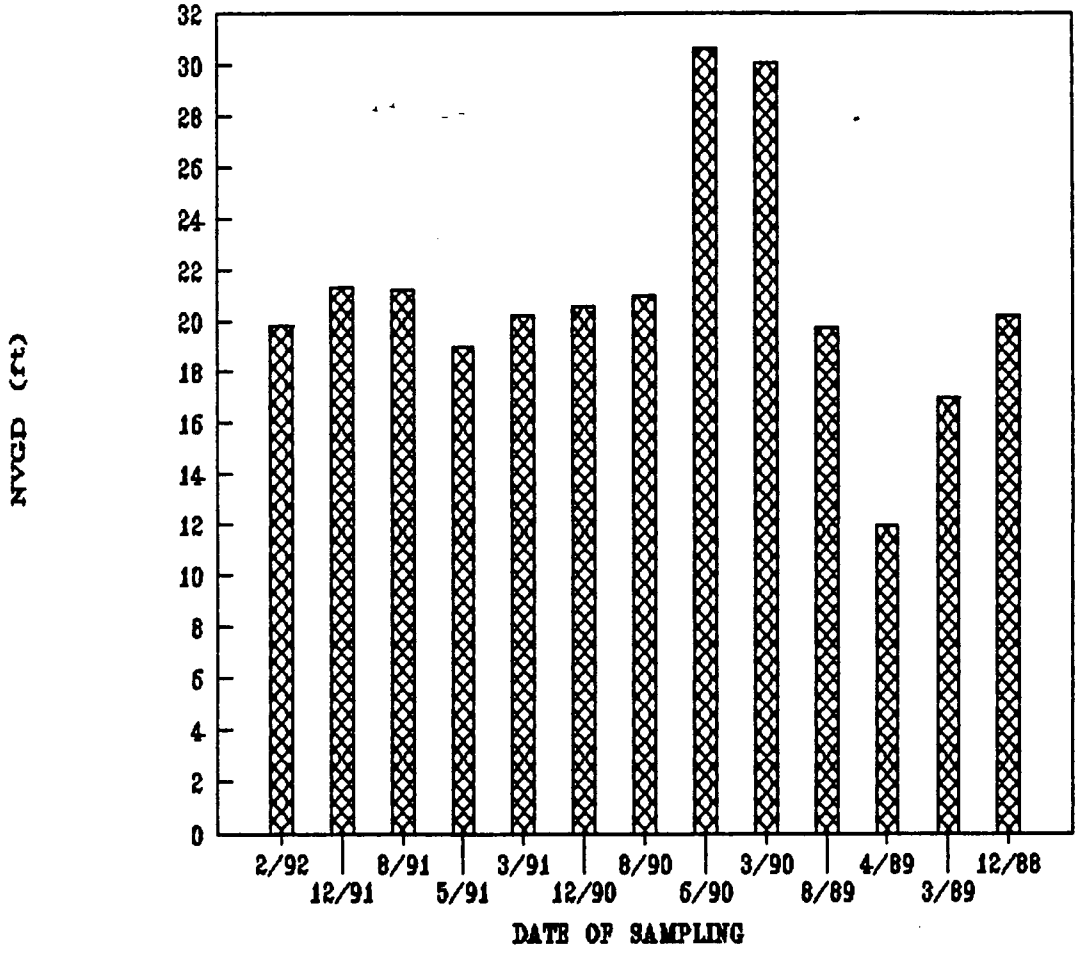
ACCUMULATED NVGD FOR SA3

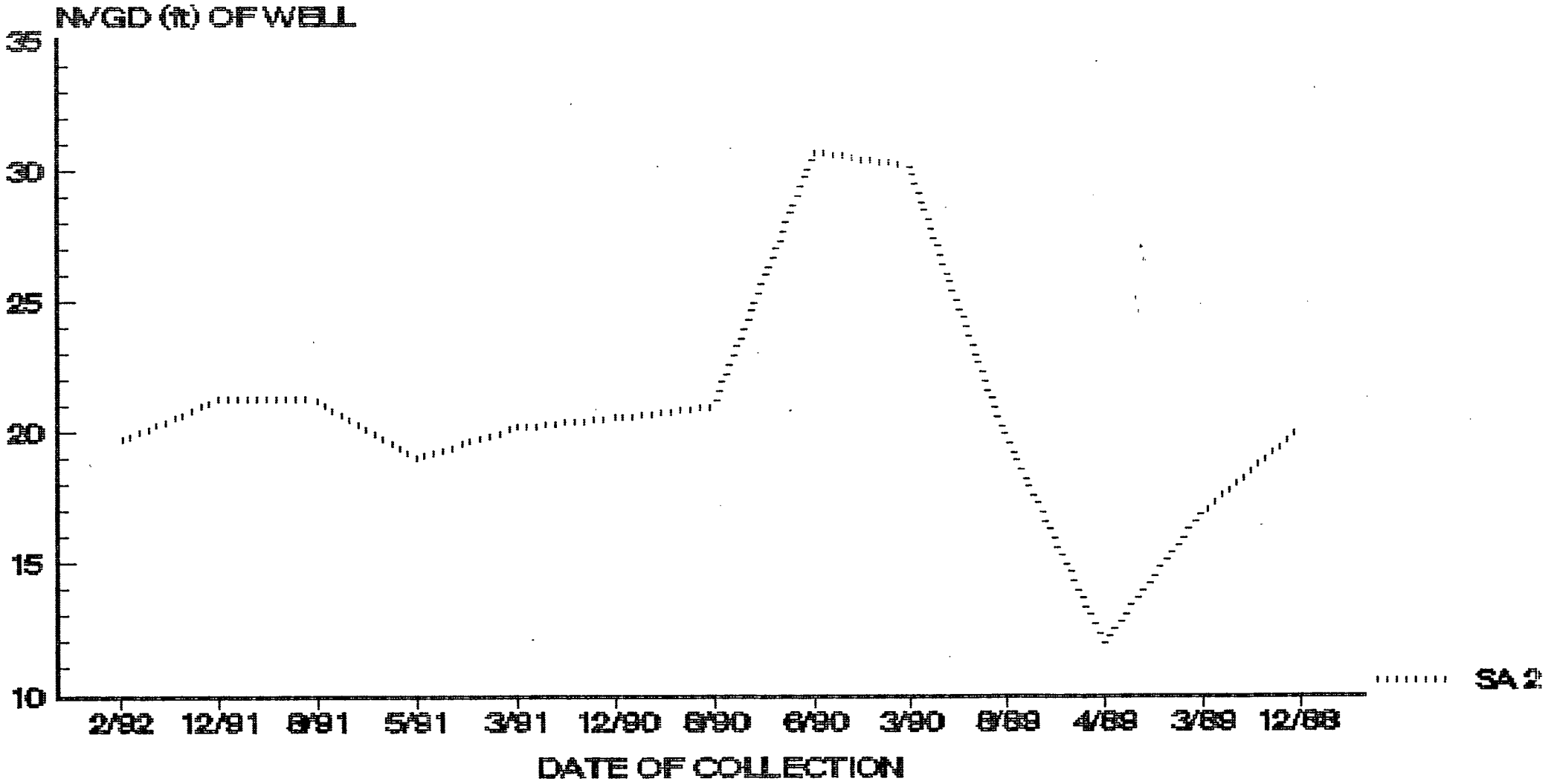




LANDFILL NVGD FOR WELLS

ACCUMULATED NVGD FOR SA2

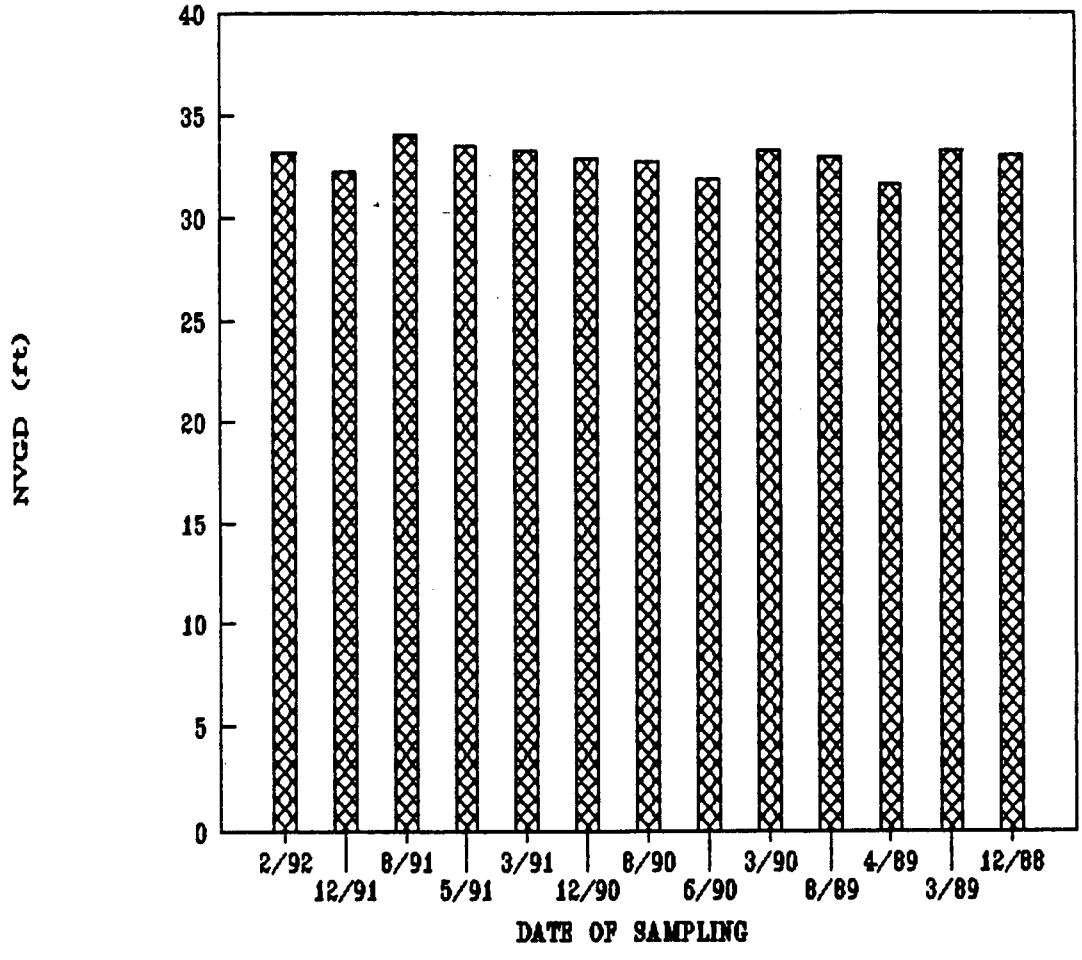


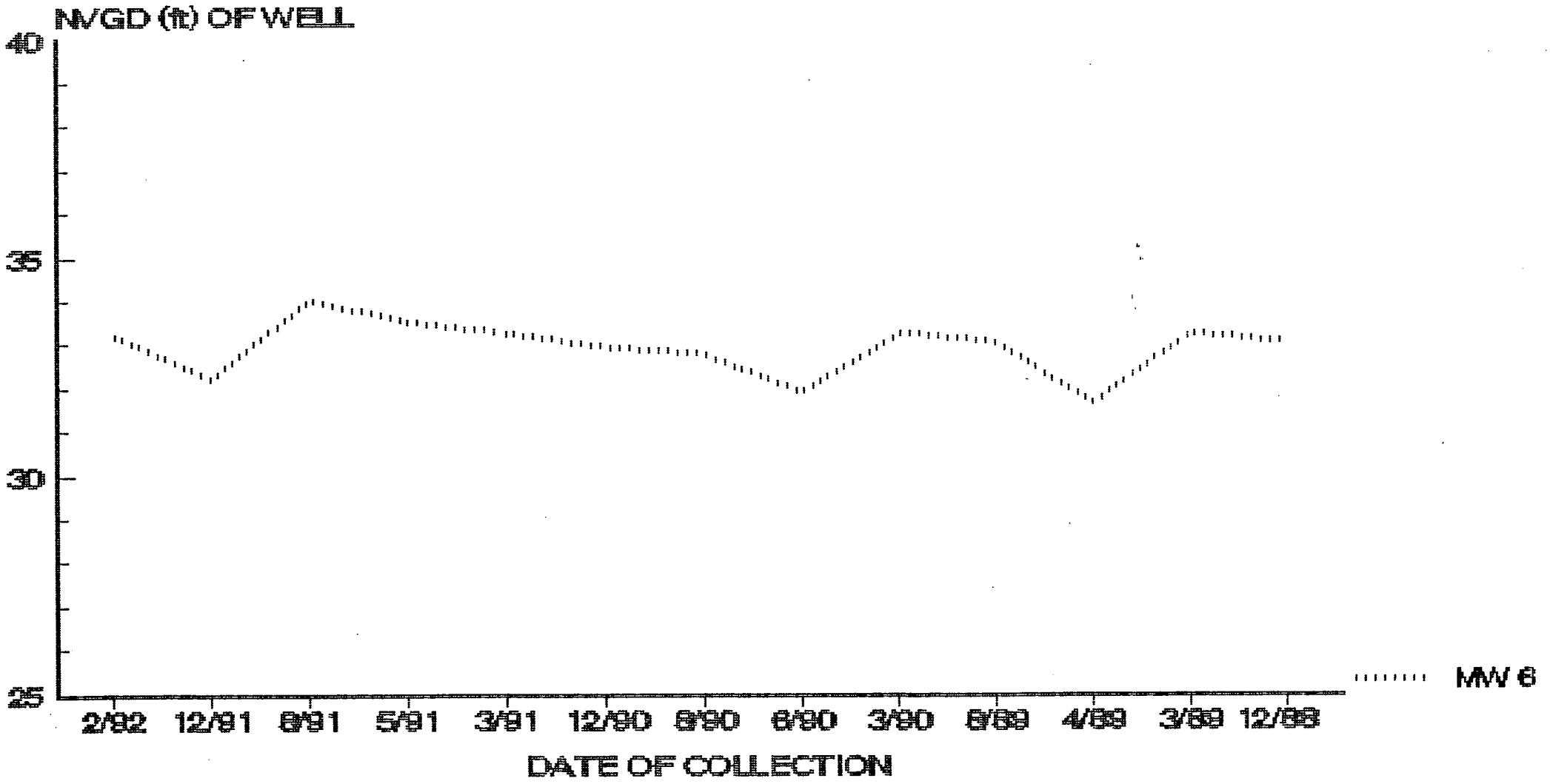


LANDFILL NVGD FOR WELLS

SA2

ACCUMULATED NVGD FOR MW 6

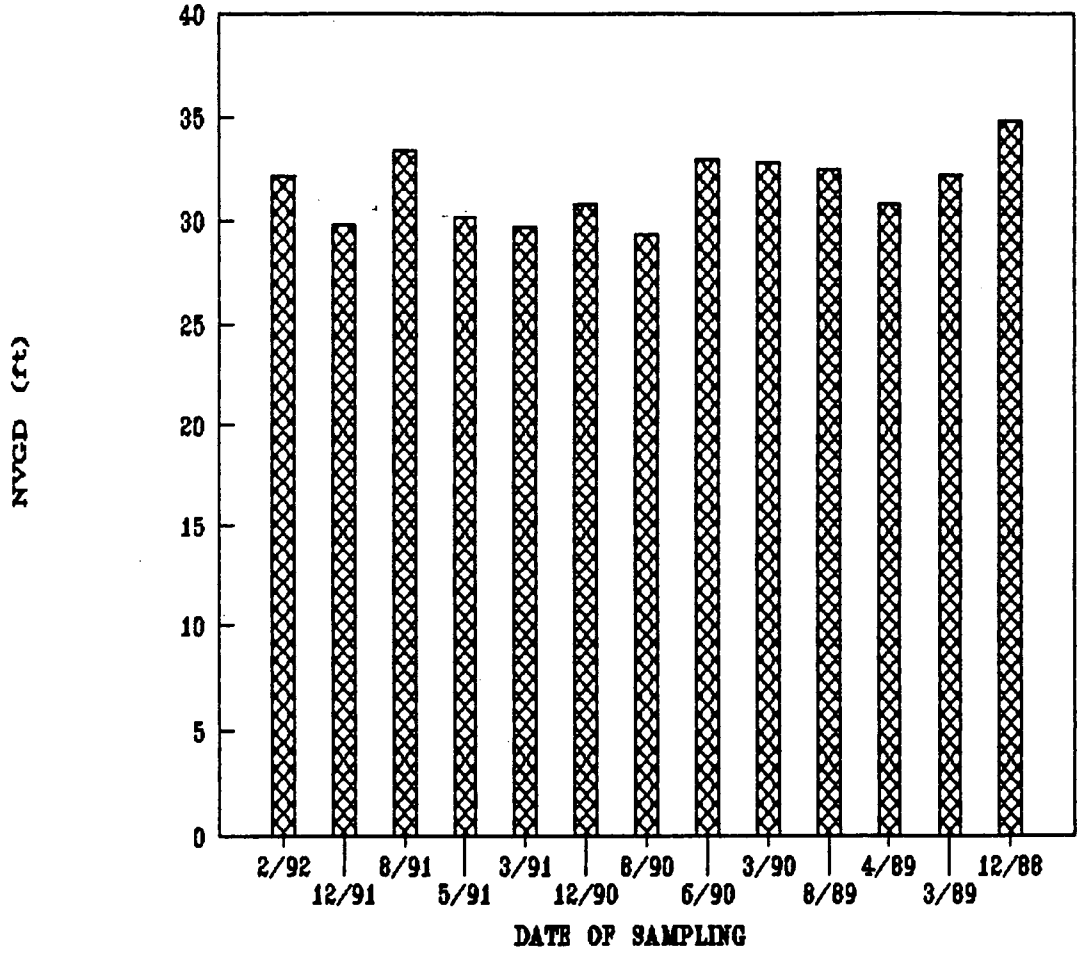


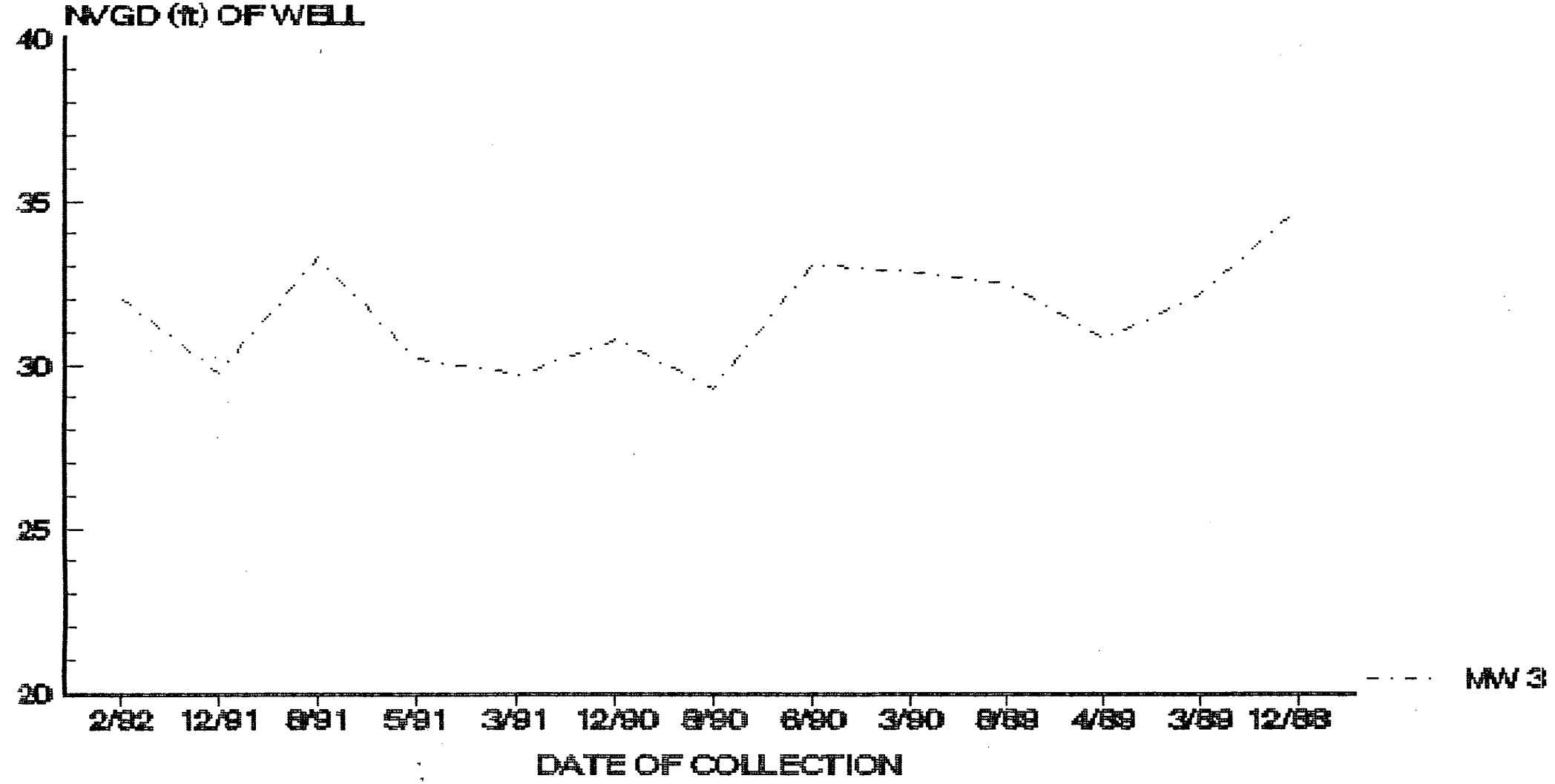


LANDFILL NVGD FOR WELL 6

MW6

ACCUMULATED NVGD FOR MW 3

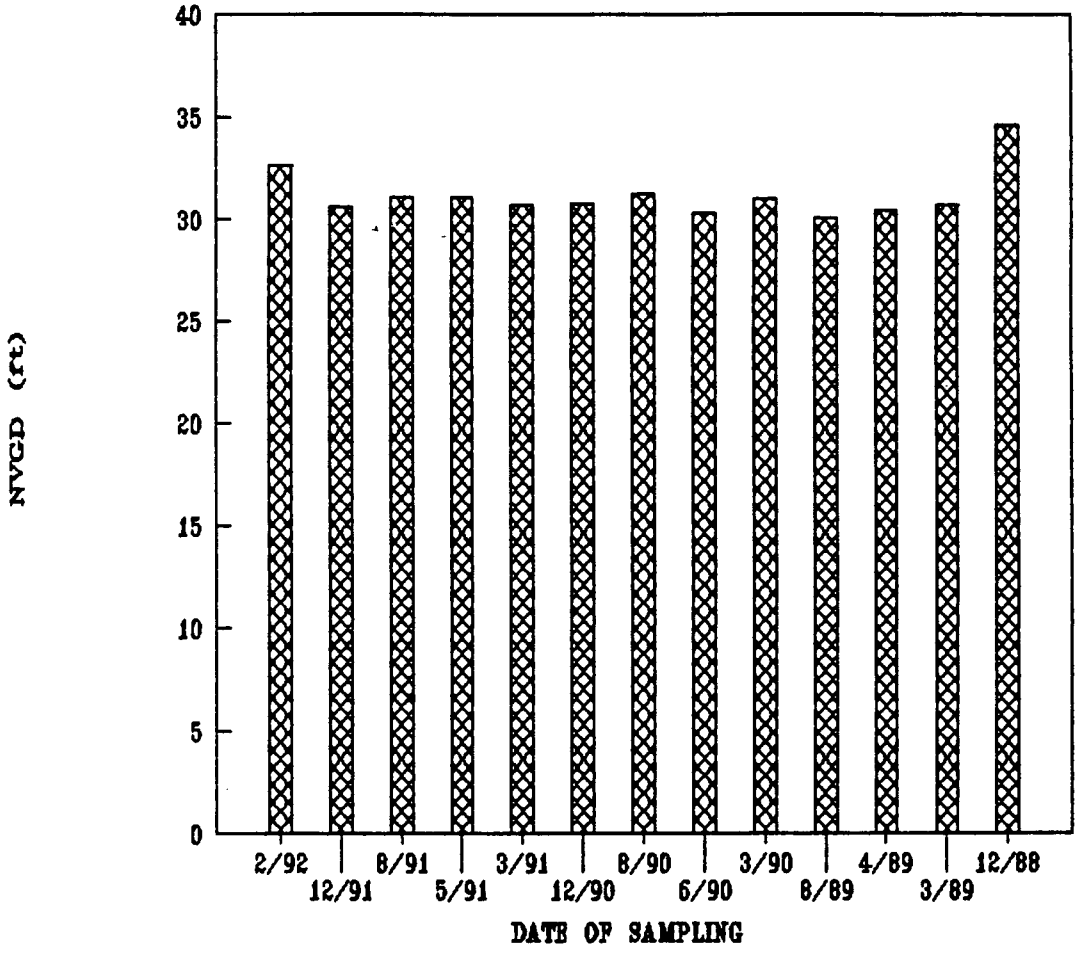


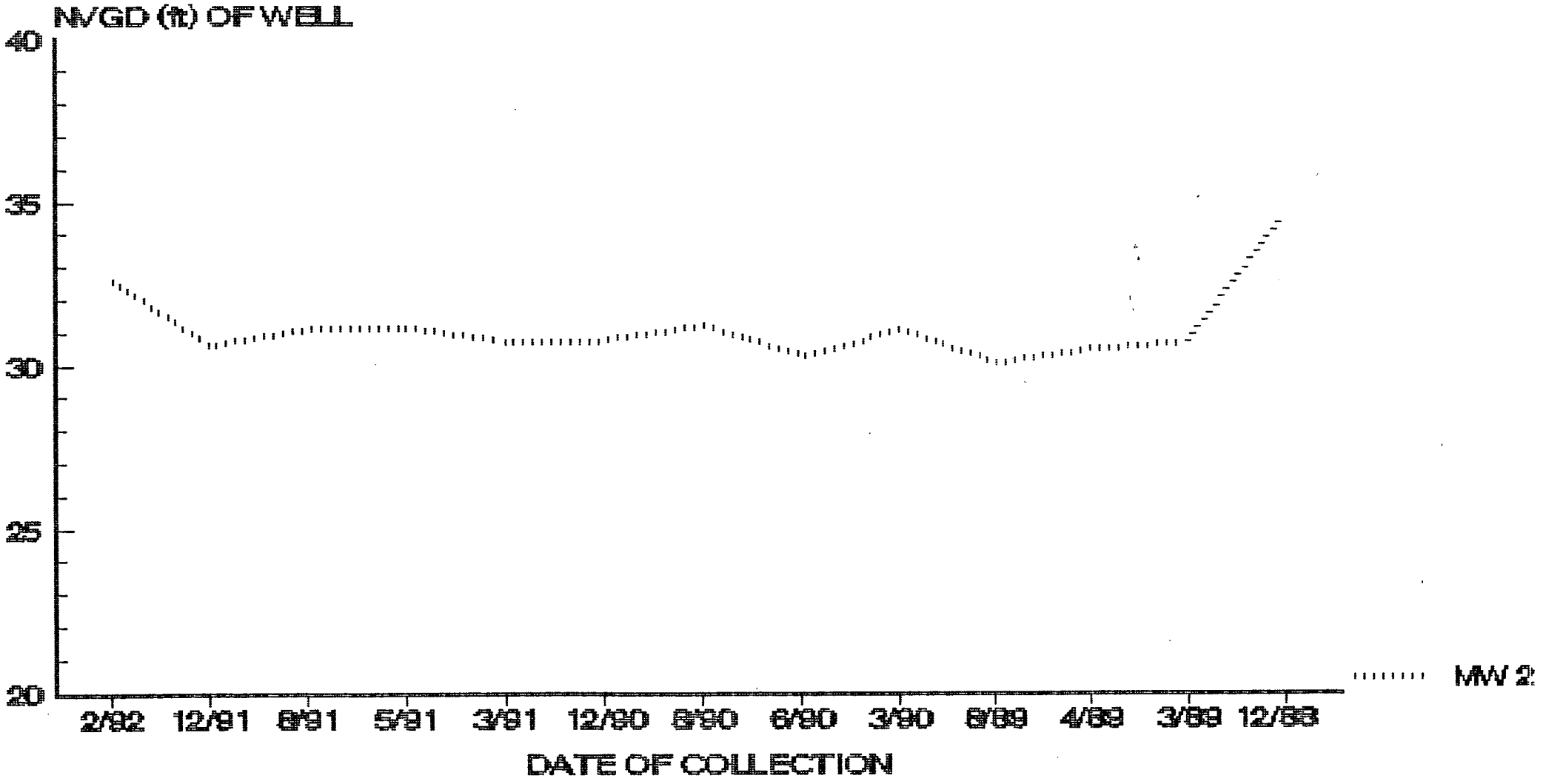


LANDFILL NVGD FOR WELLS

MW3

ACCUMULATED NVGD FOR MW 2

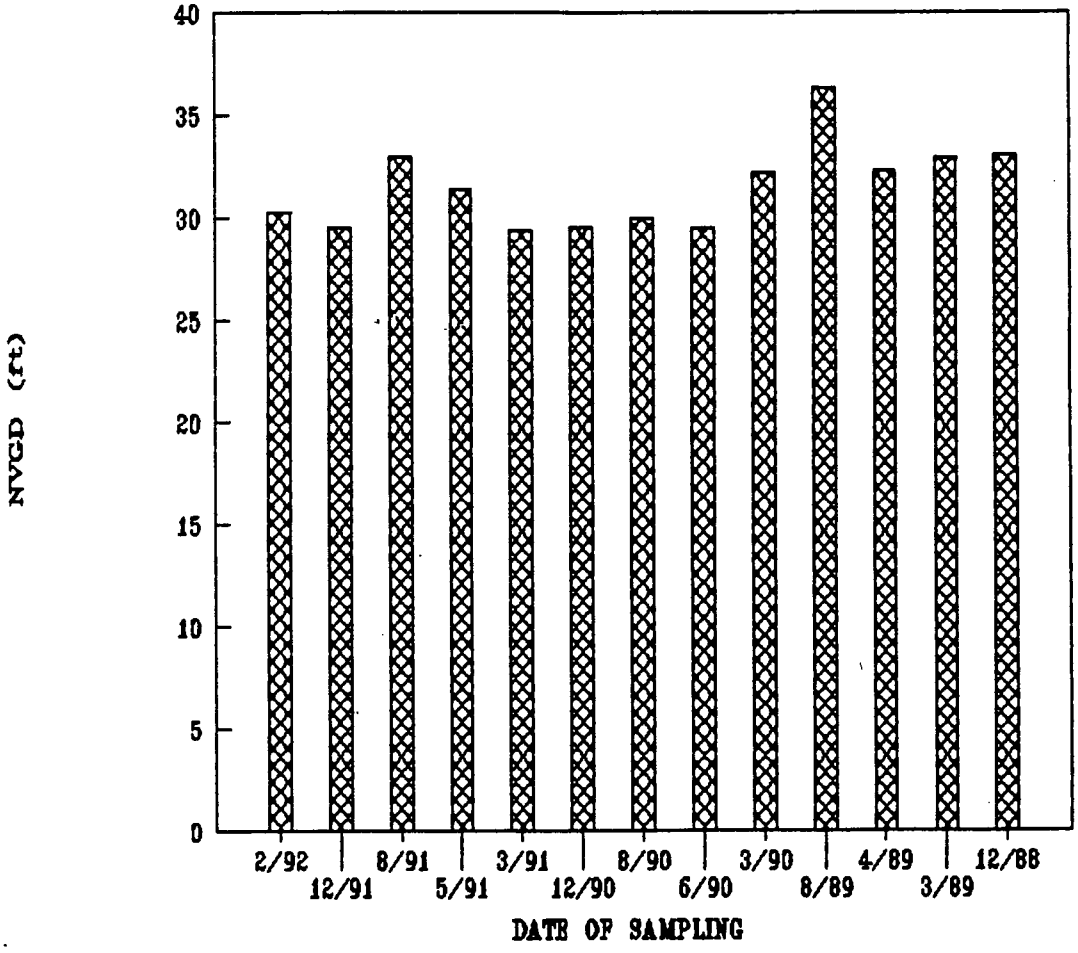


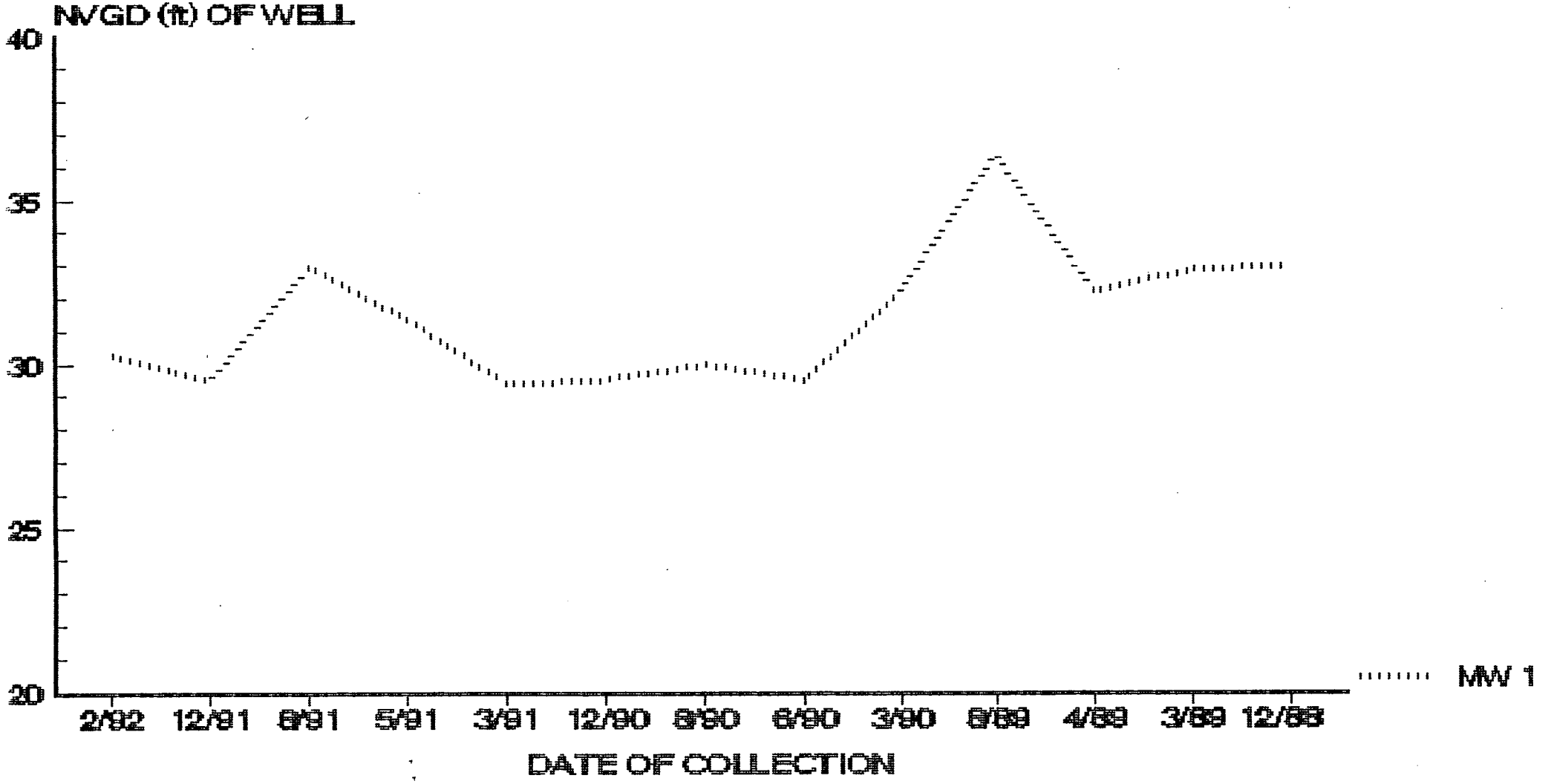


LANDFILL NVGD FOR WELL8

MW2

ACCUMULATED NVGD FOR MW 1

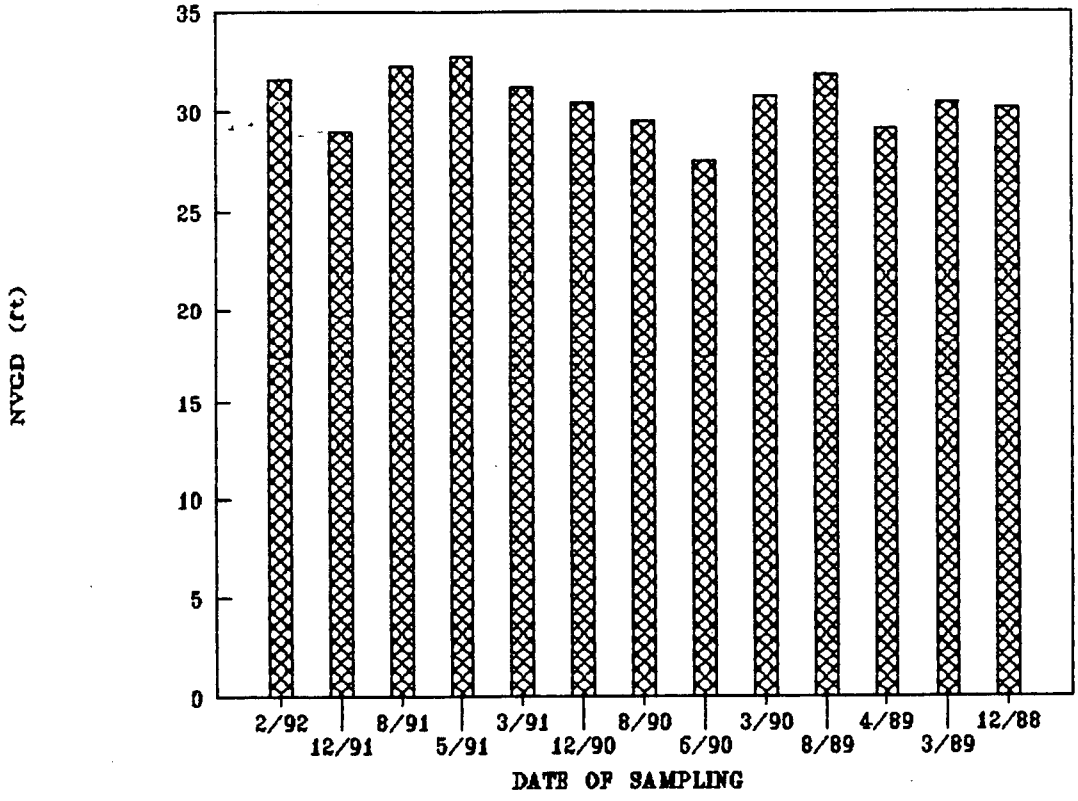


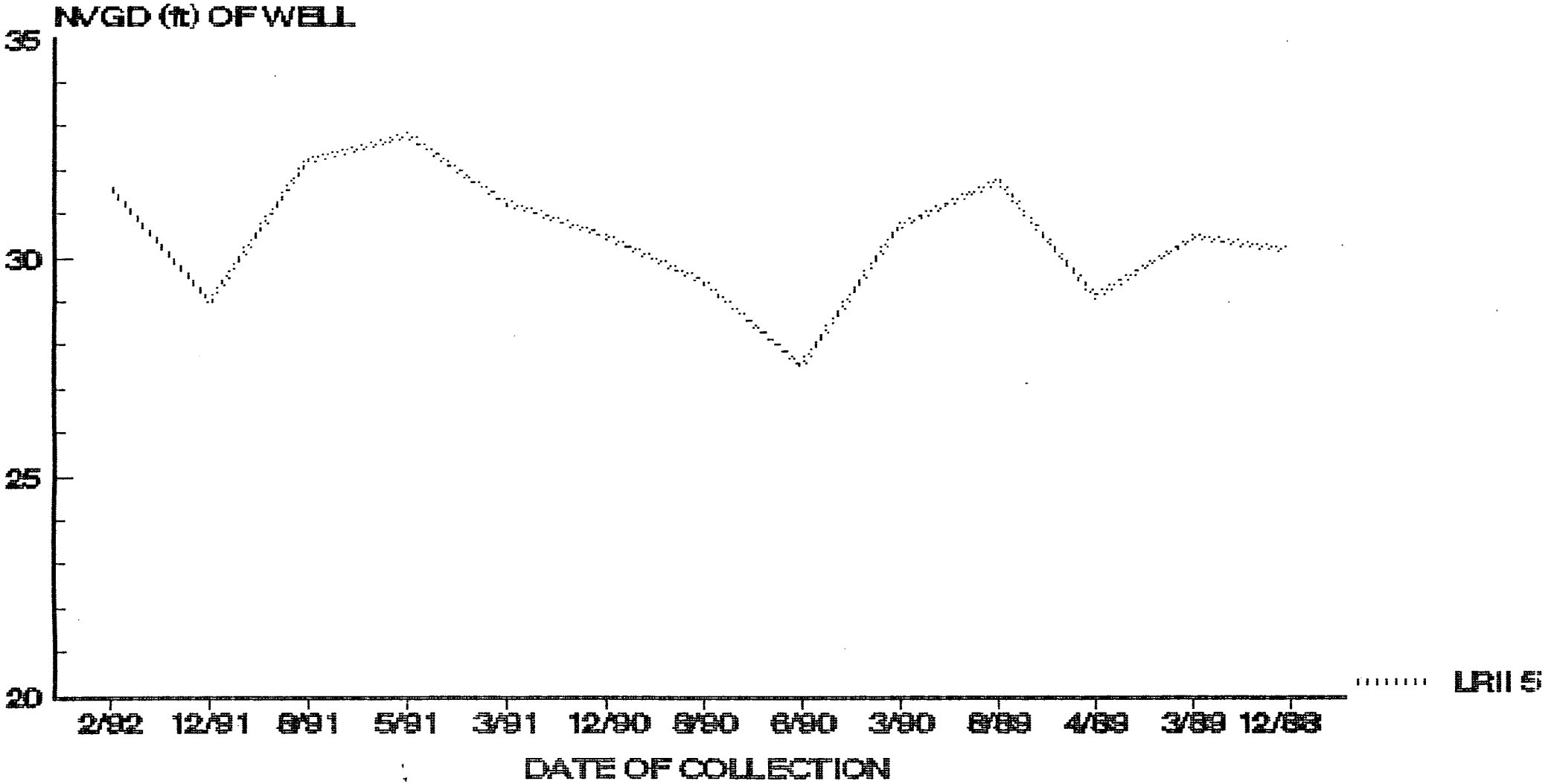


LANDFILL NVGD FOR WELLS

MW1

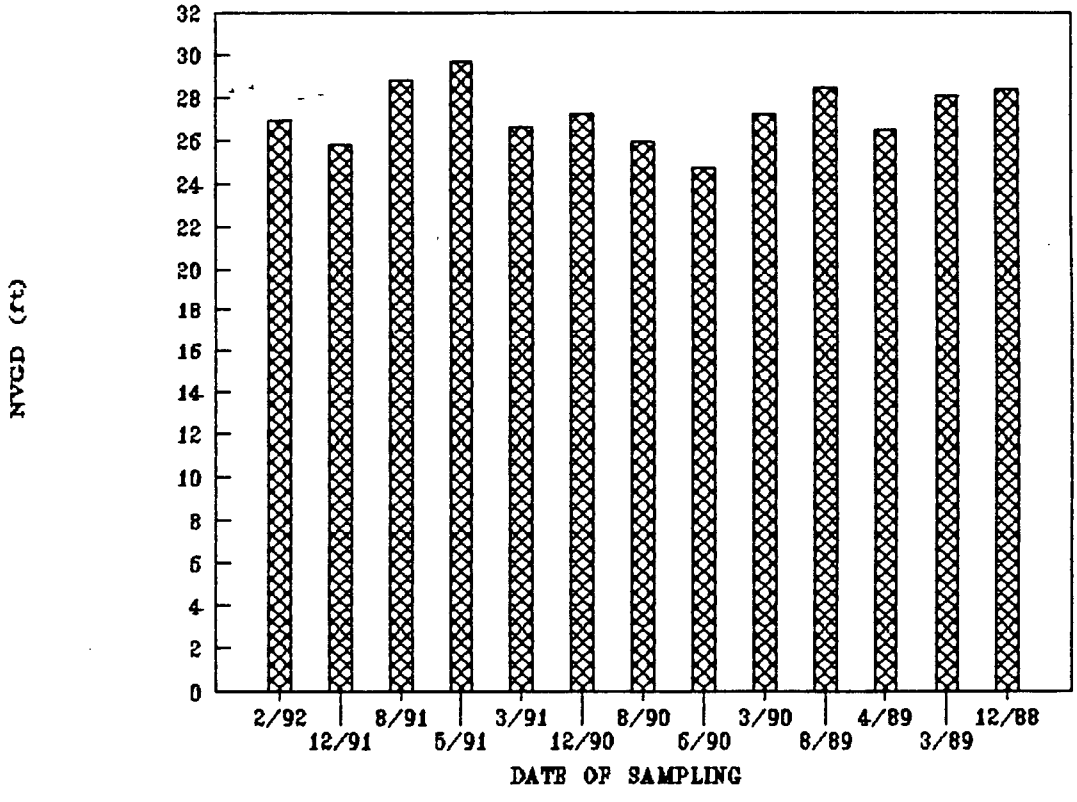
ACCUMULATED NVGD FOR LRII–5

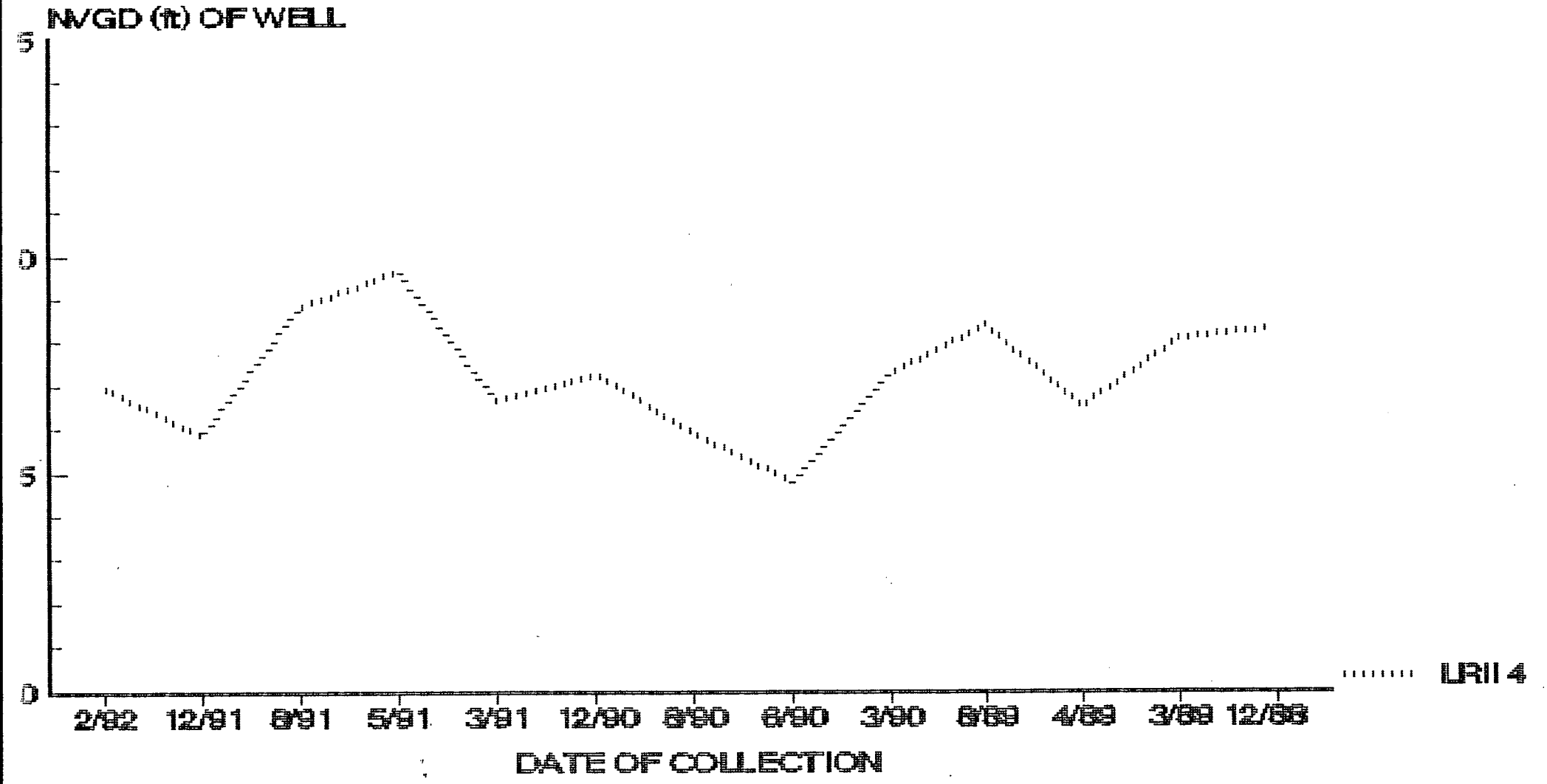




LANDFILL NVGD FOR WELL3

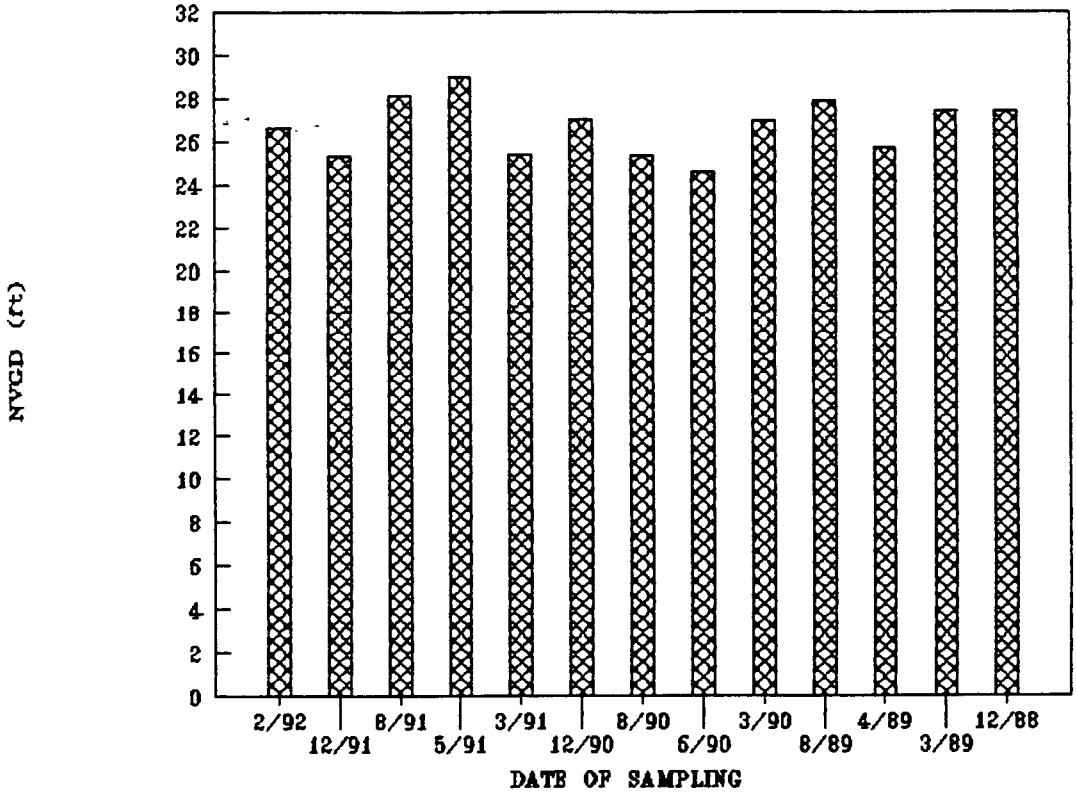
ACCUMULATED NVGD FOR LRII–4

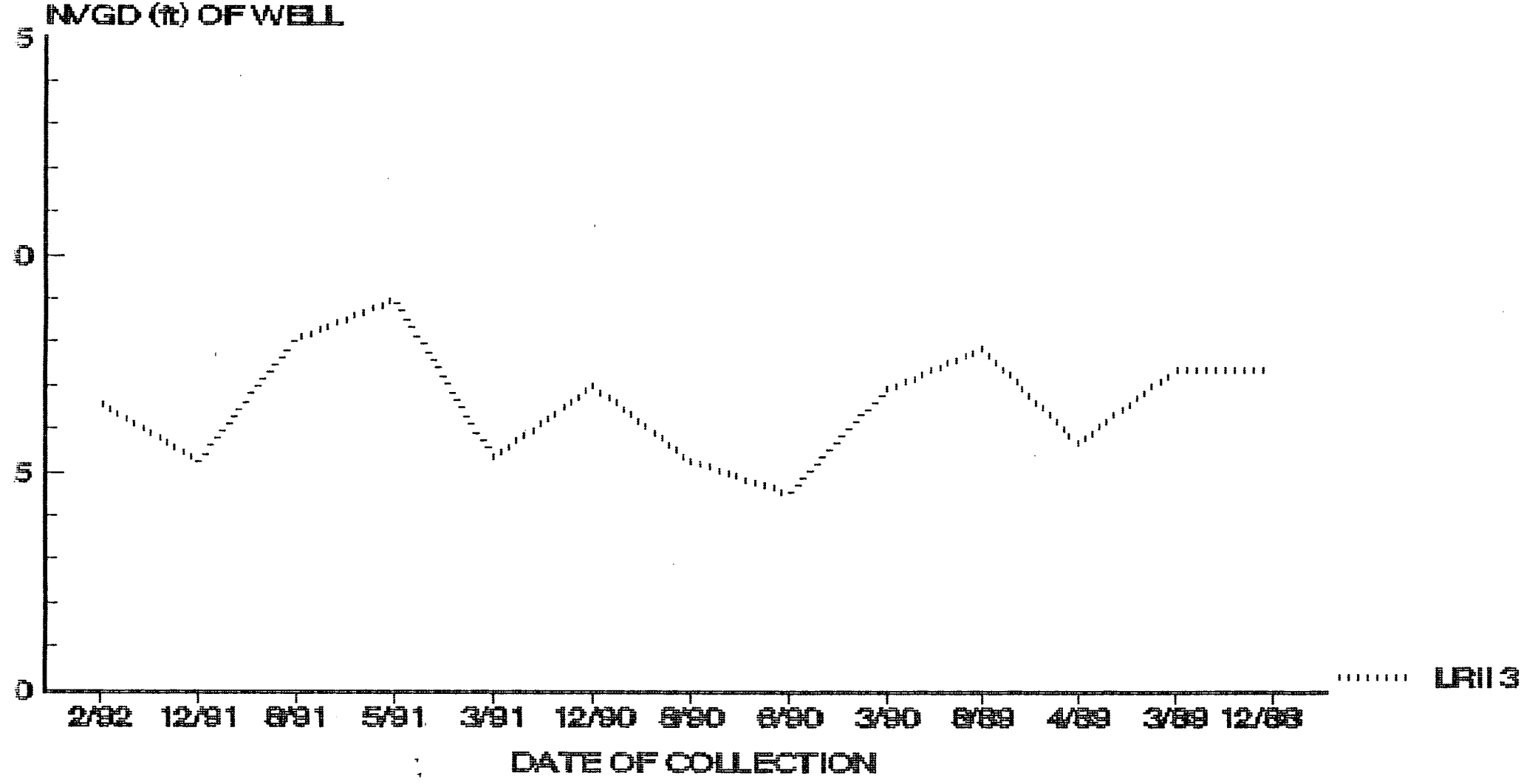




LANDFILL NVGD FOR WELLS

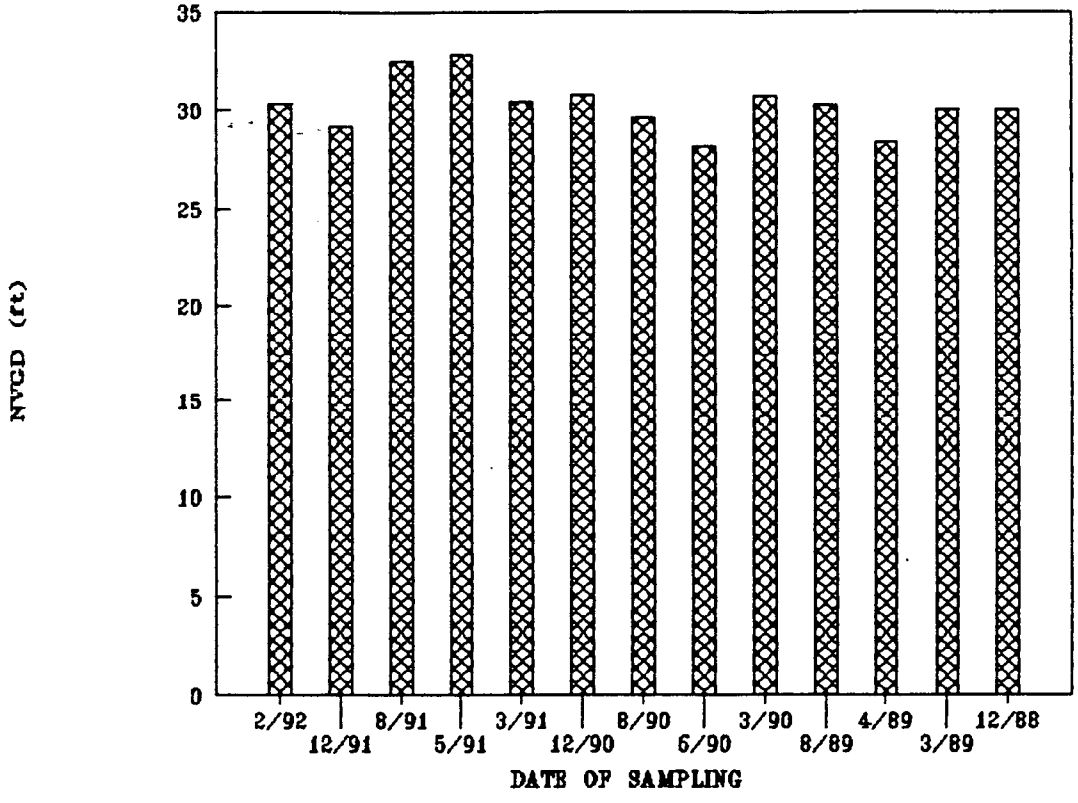
ACCUMULATED NVGD FOR LRII–3

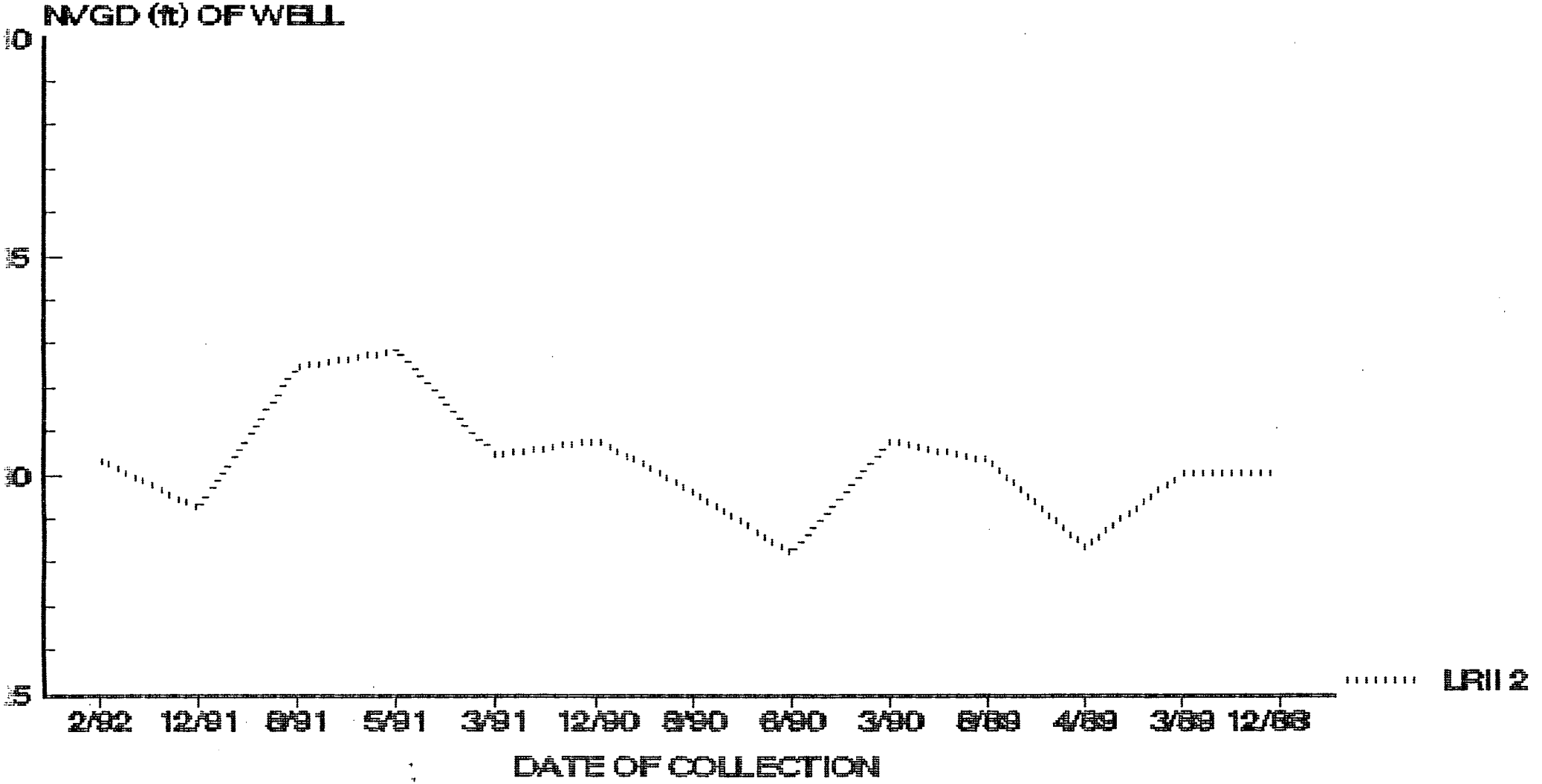




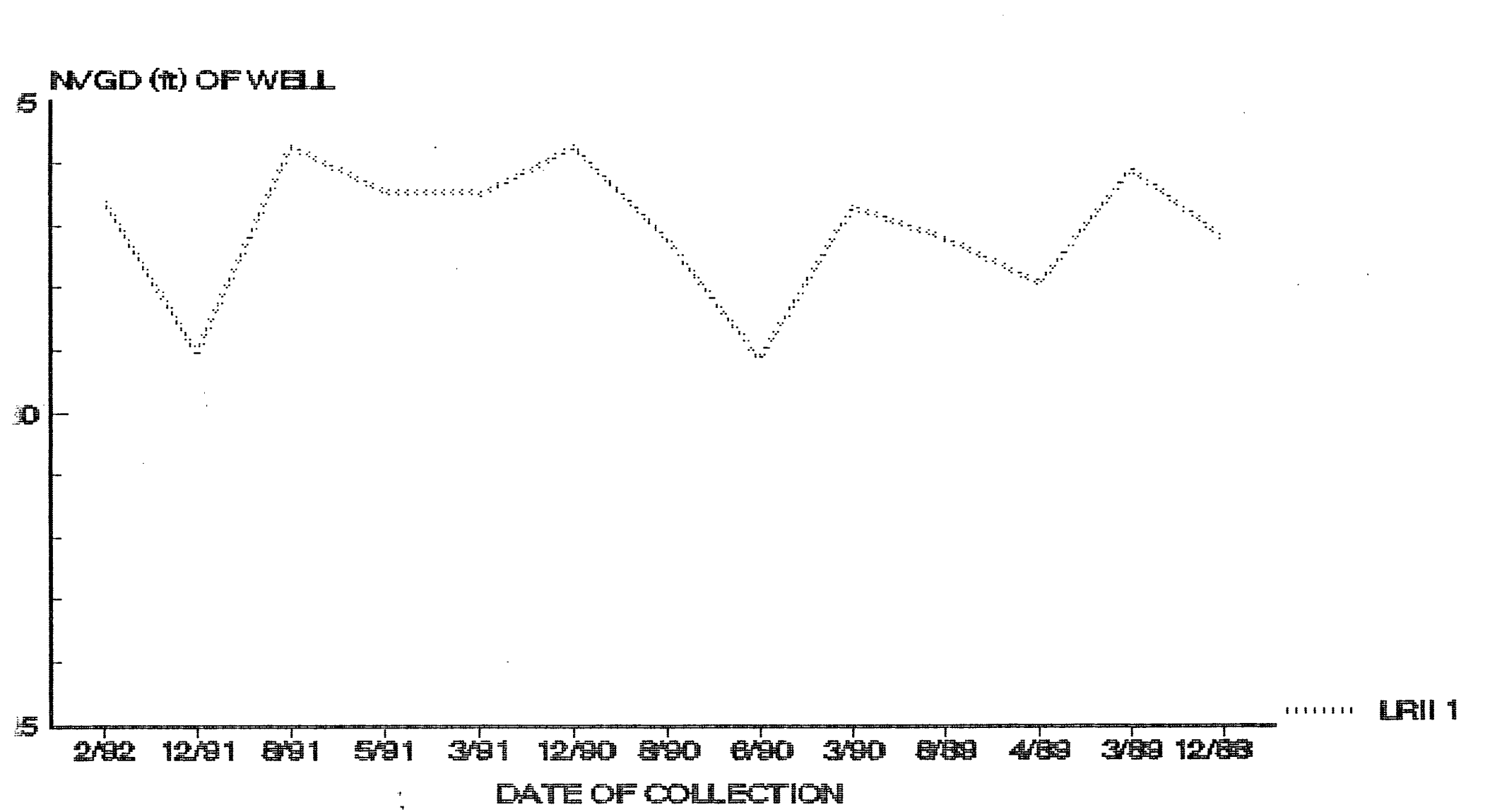
LANDFILL NVGD FOR WELLS

ACCUMULATED NVGD FOR LRII–2



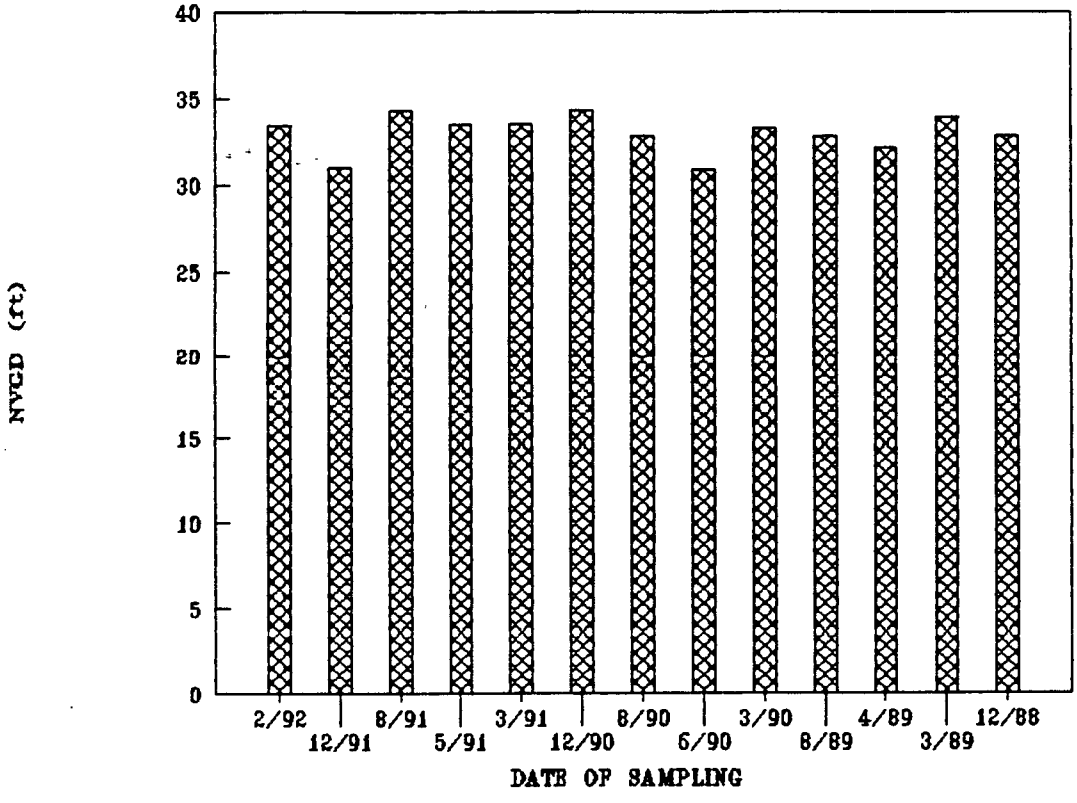


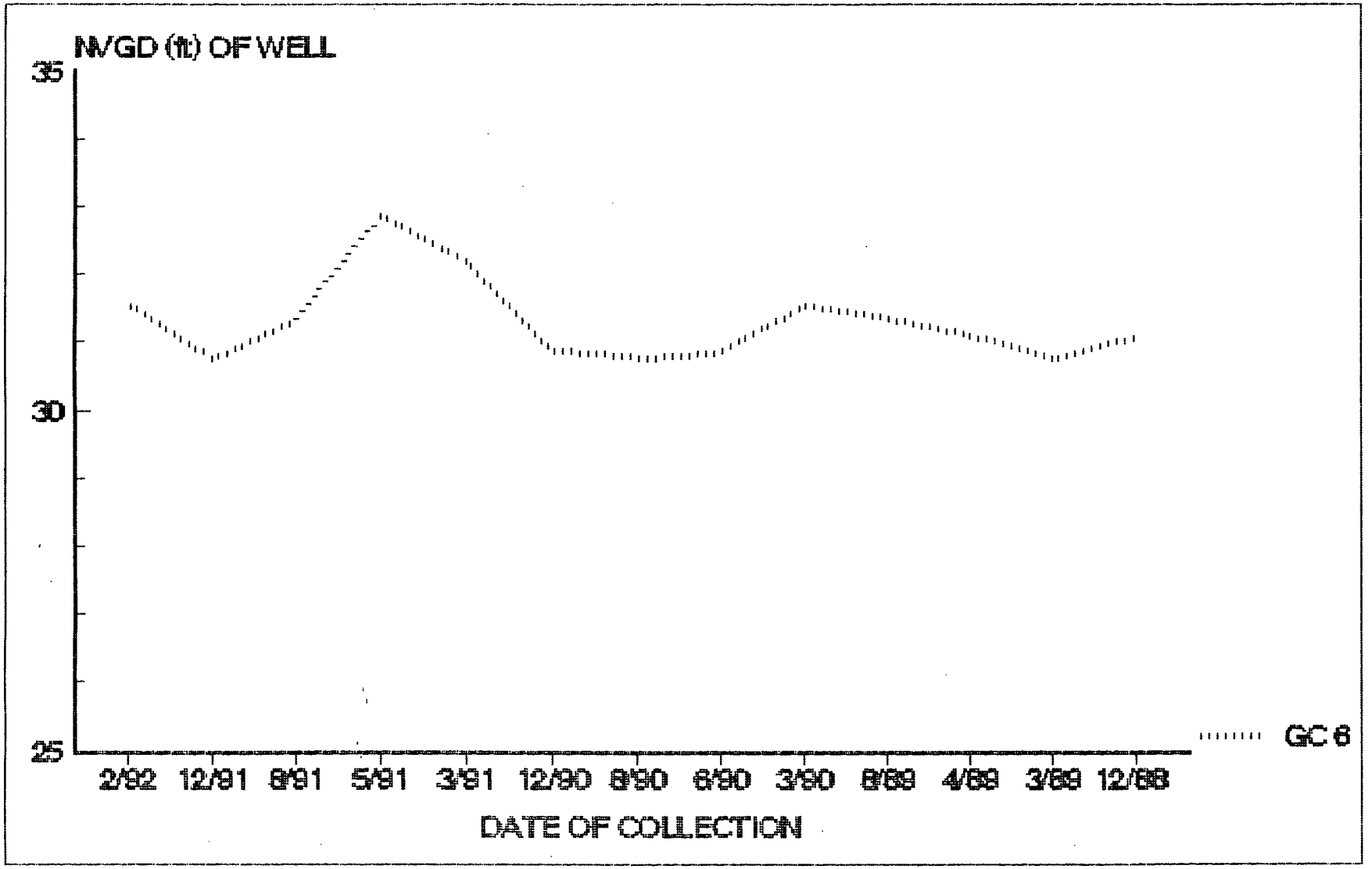
LANDFILL NVGD FOR WELLS



LANDFILL NVGD FOR WELLS

ACCUMULATED NVGD FOR LRII–1

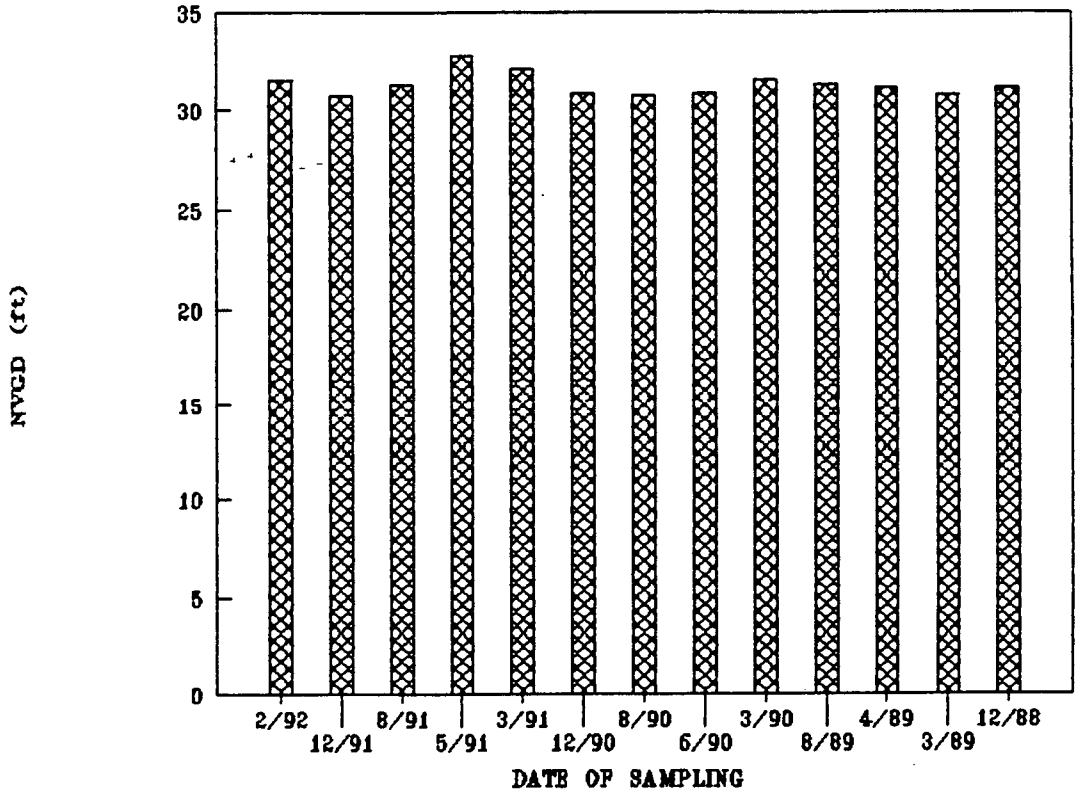


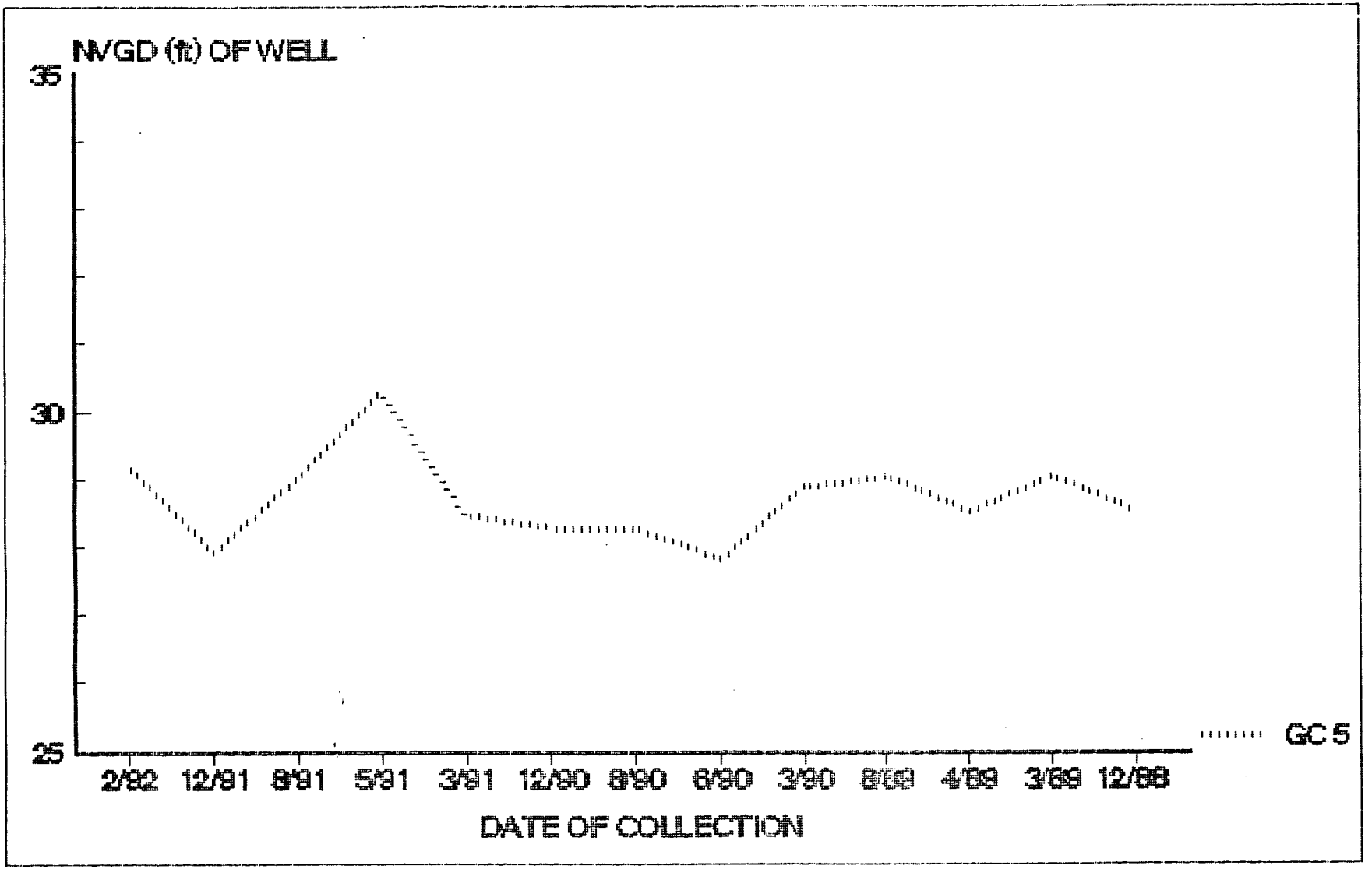


Graph-in-the-Box EXECUTIVE

GC6

ACCUMULATED NVGD FOR GC6

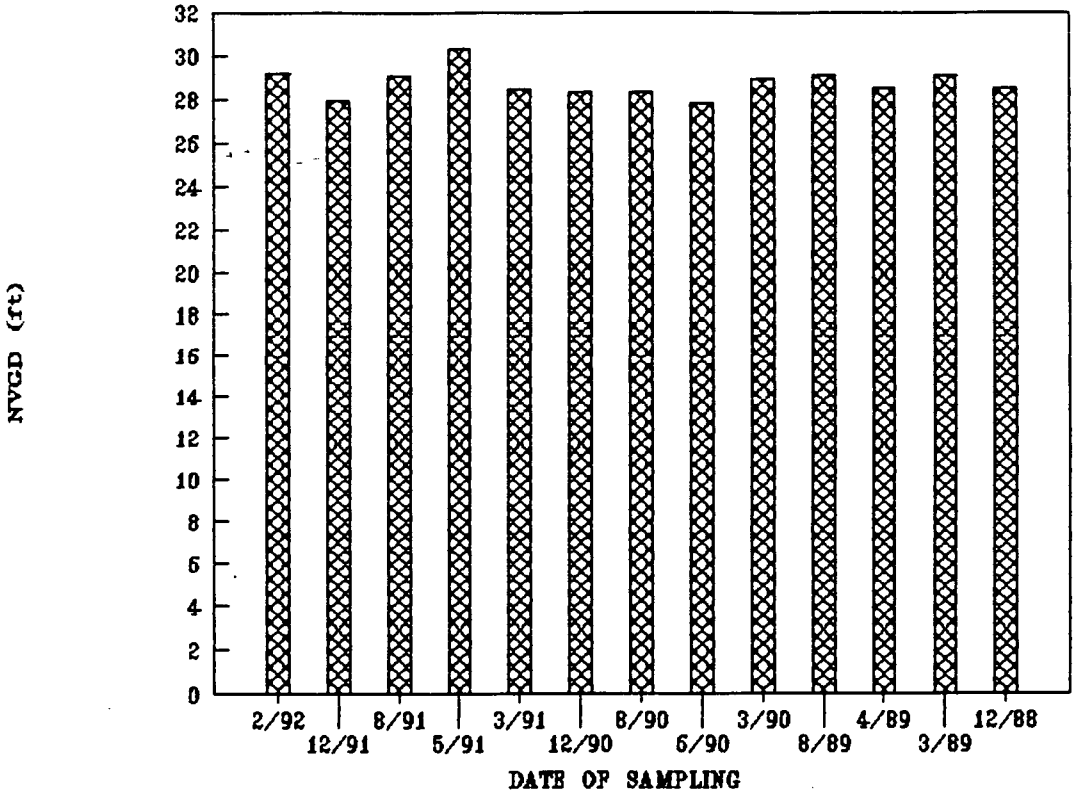


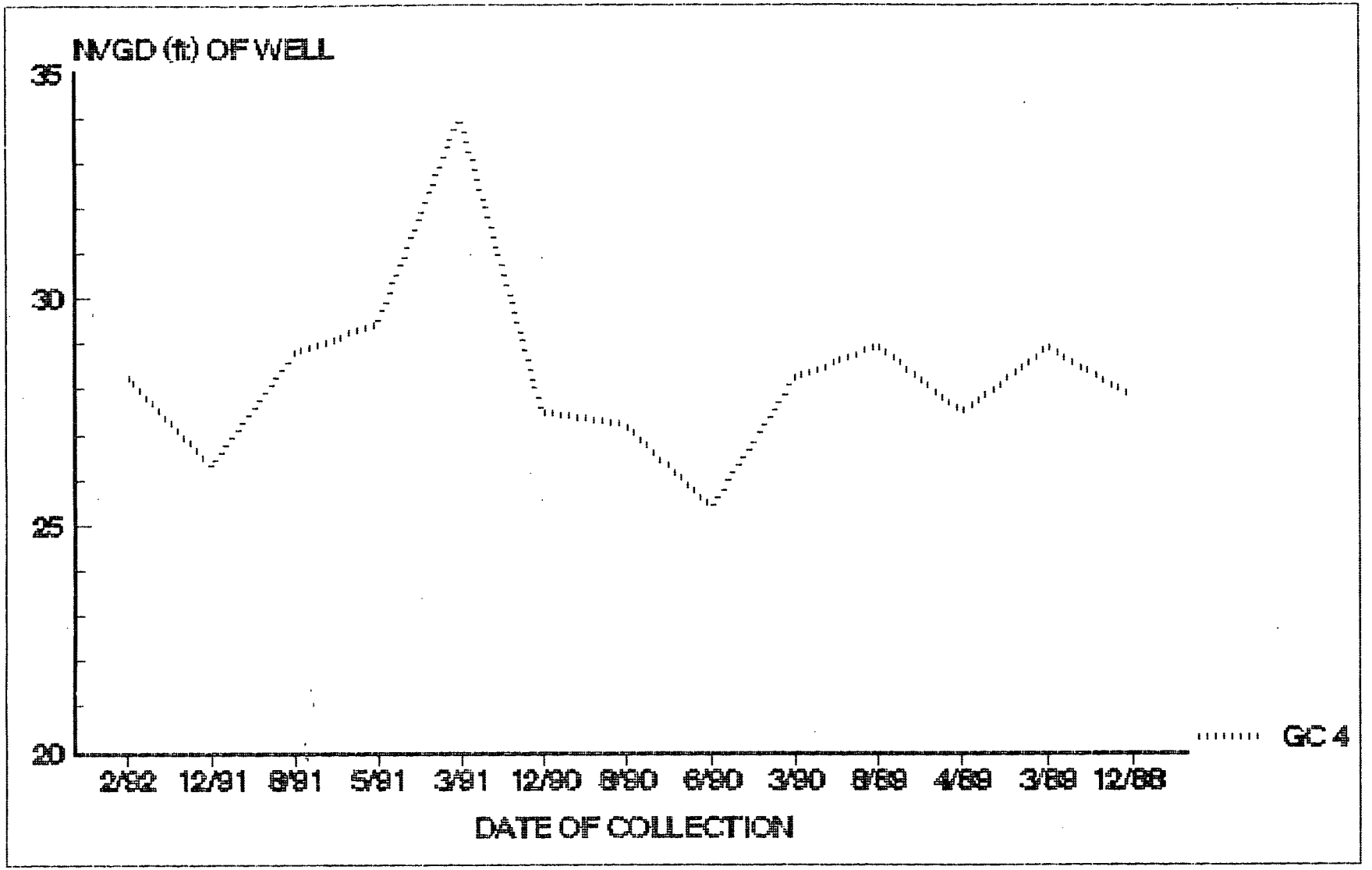


Graph-In-the-Box EXECUTIVE

GC5

ACCUMULATED NVGD FOR GC 5

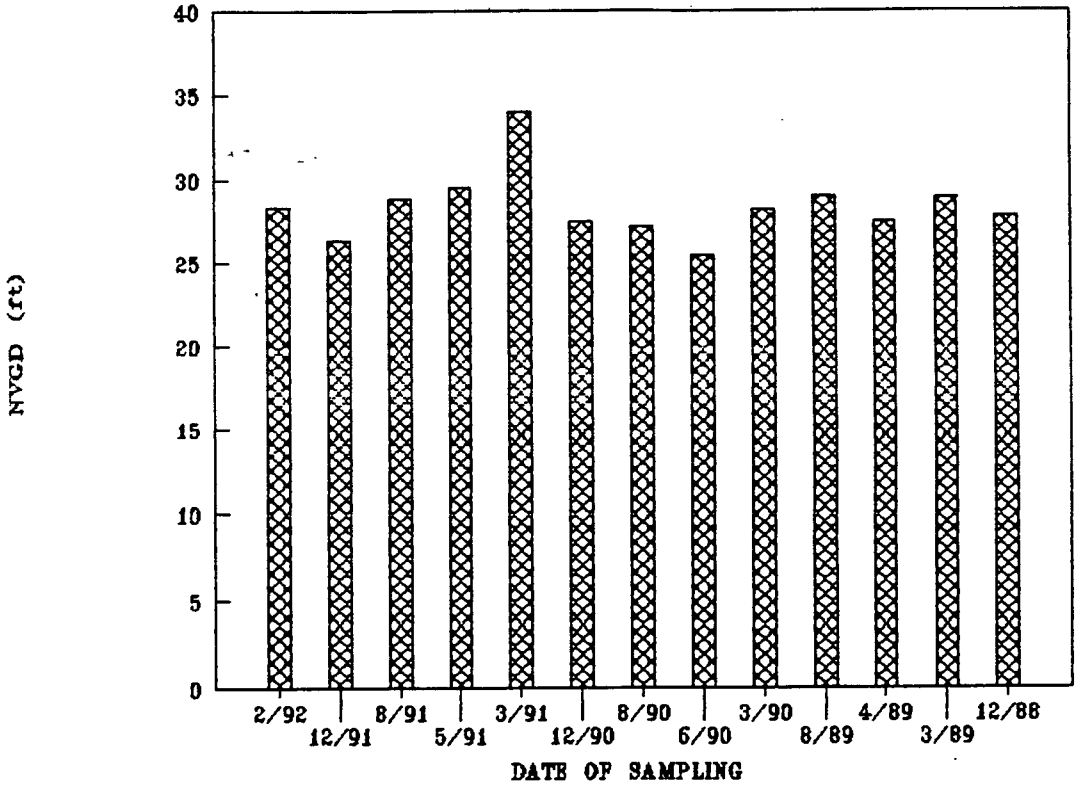


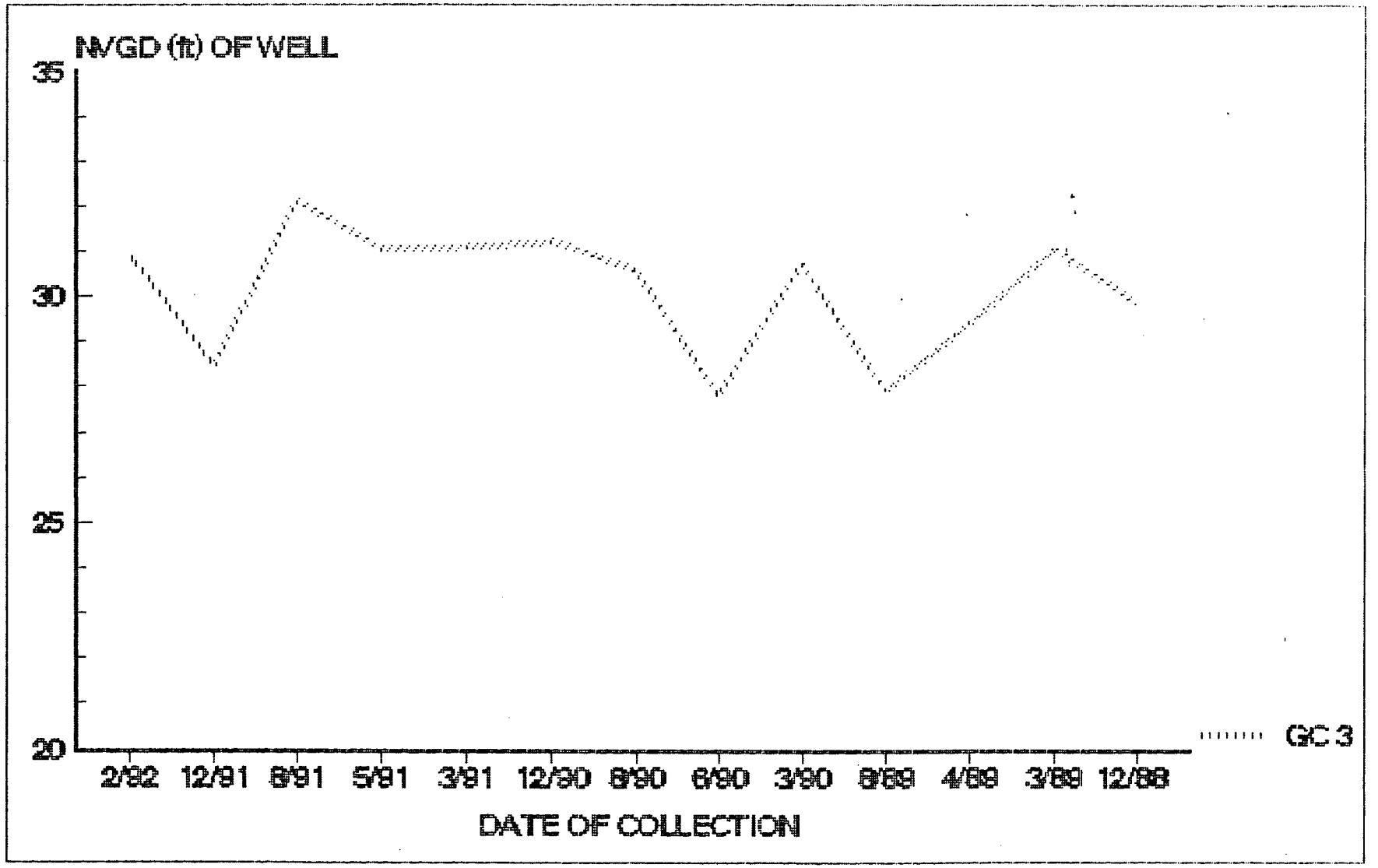


Graph-in-the-Box EXECUTIVE

GC4

ACCUMULATED NVGD FOR GC4

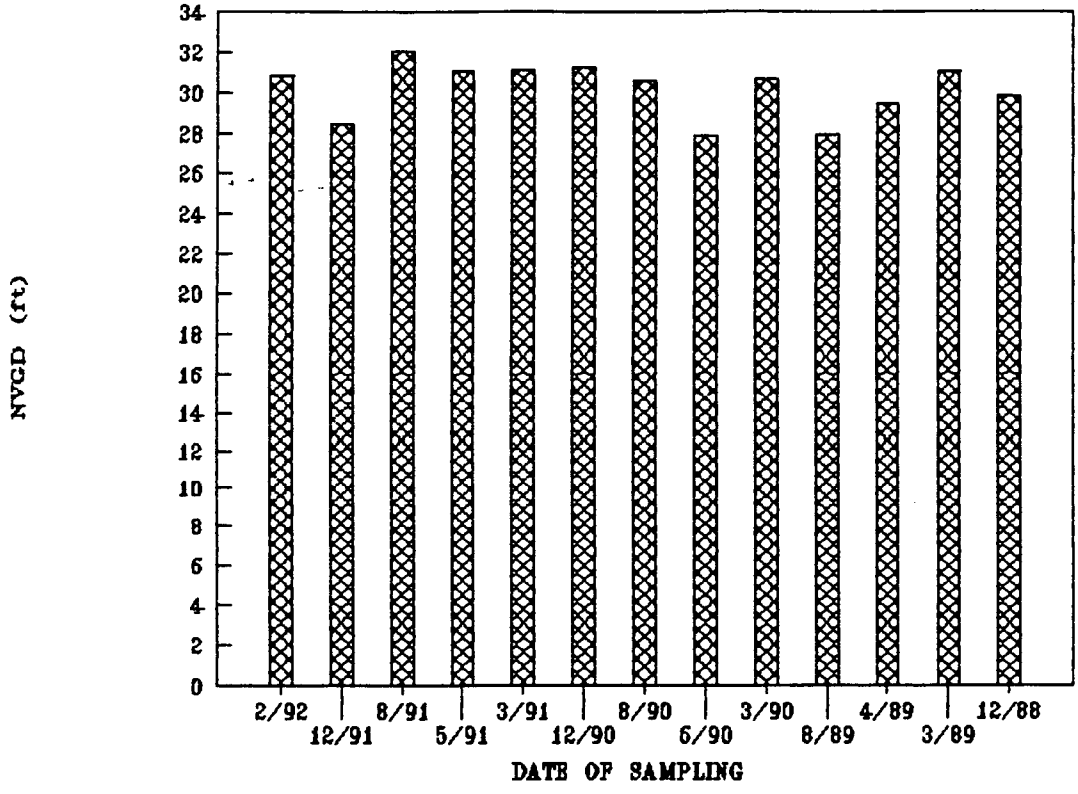


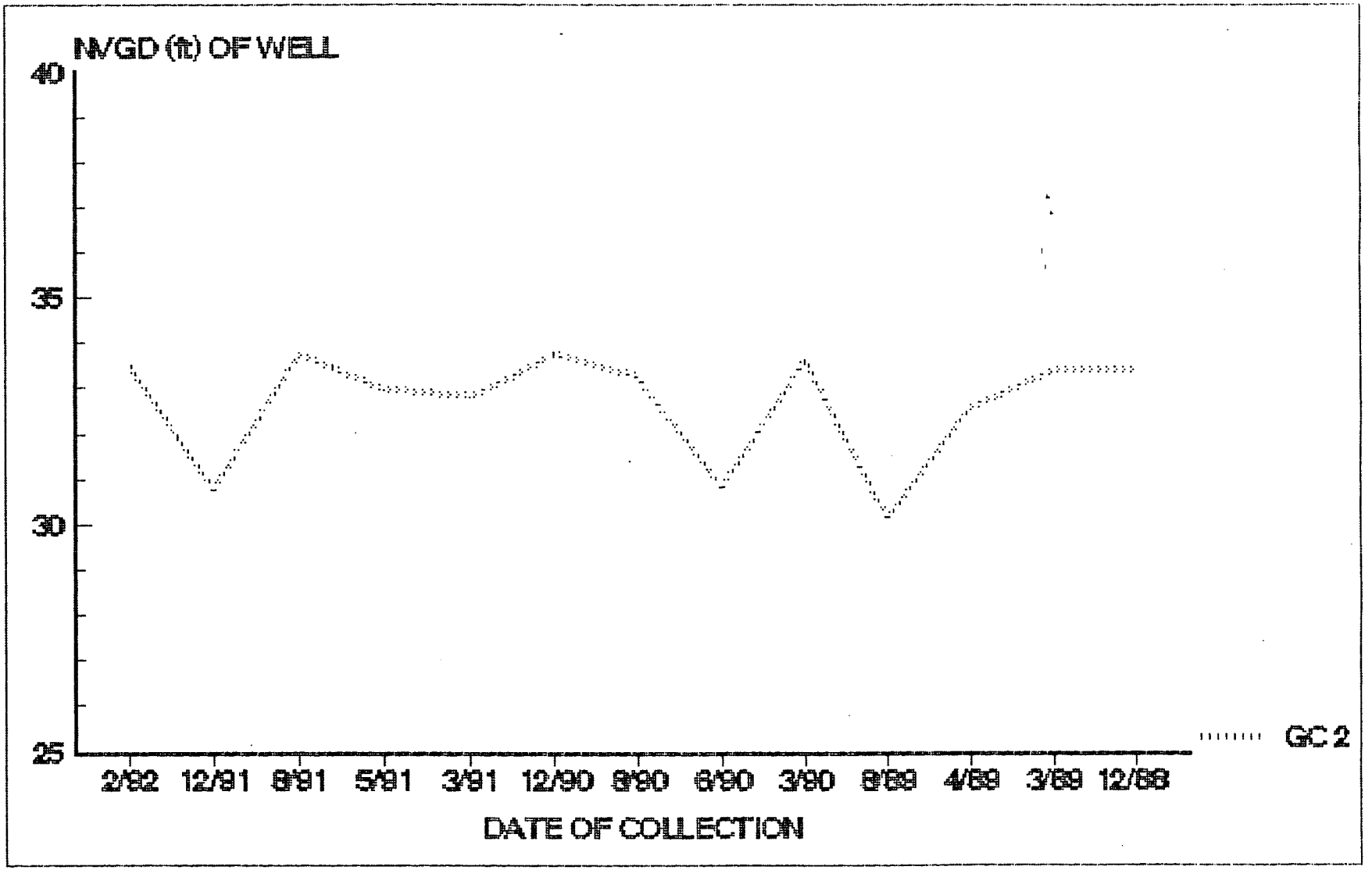


Graph-in-the-Box EXECUTIVE

GC3

ACCUMULATED NVGD FOR GC3

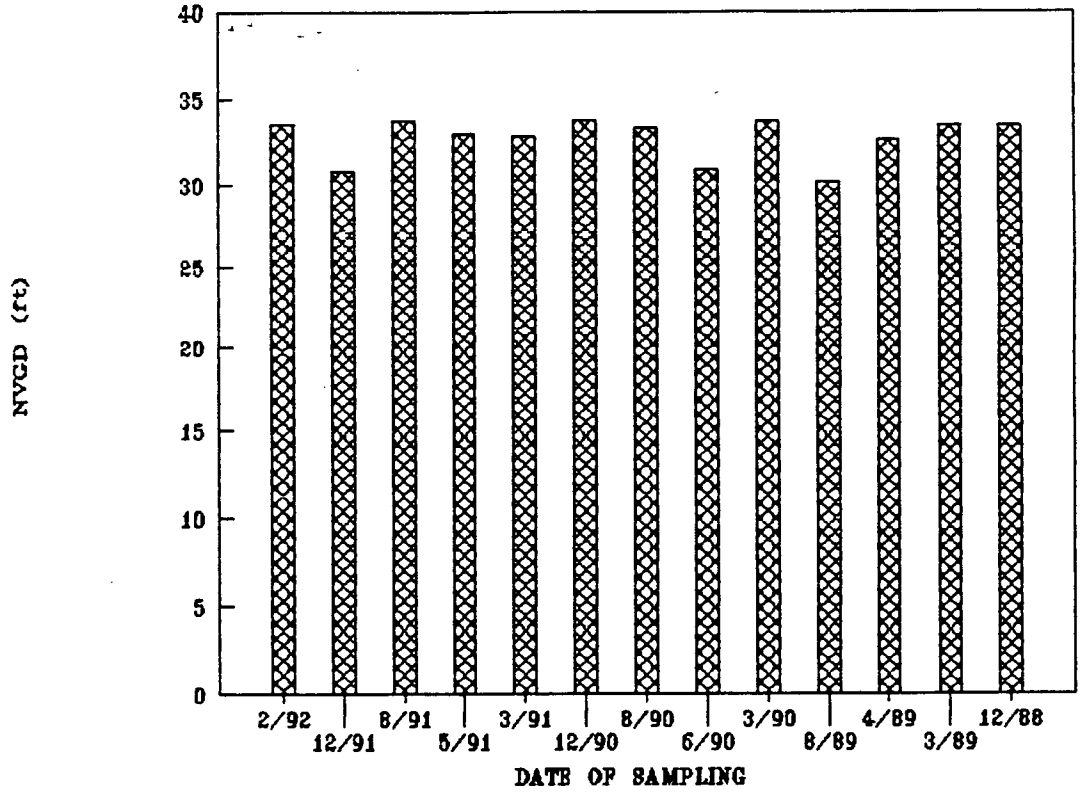


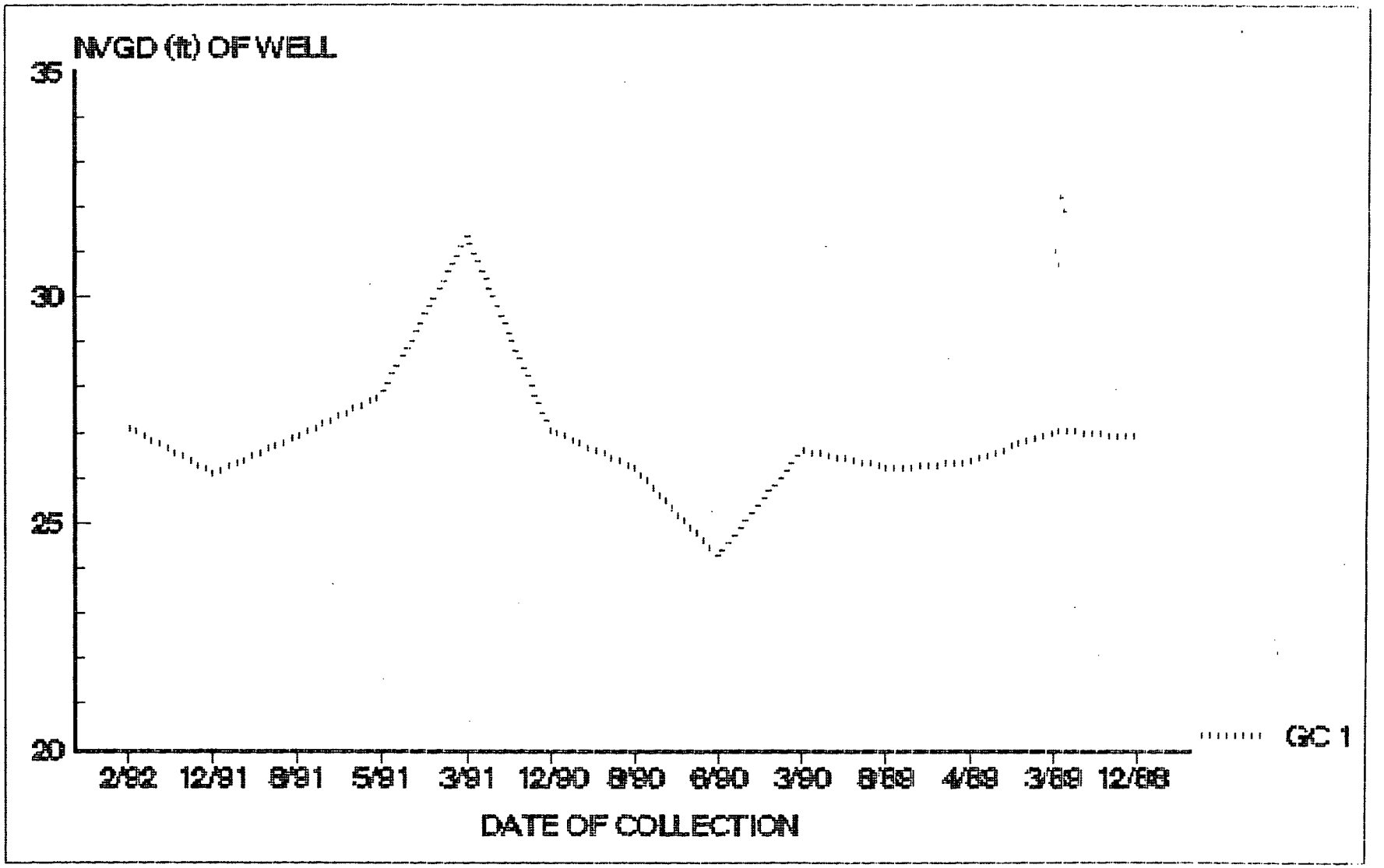


Graph-in-the-Box EXECUTIVE

GC2

ACCUMULATED NVGD FOR GC2

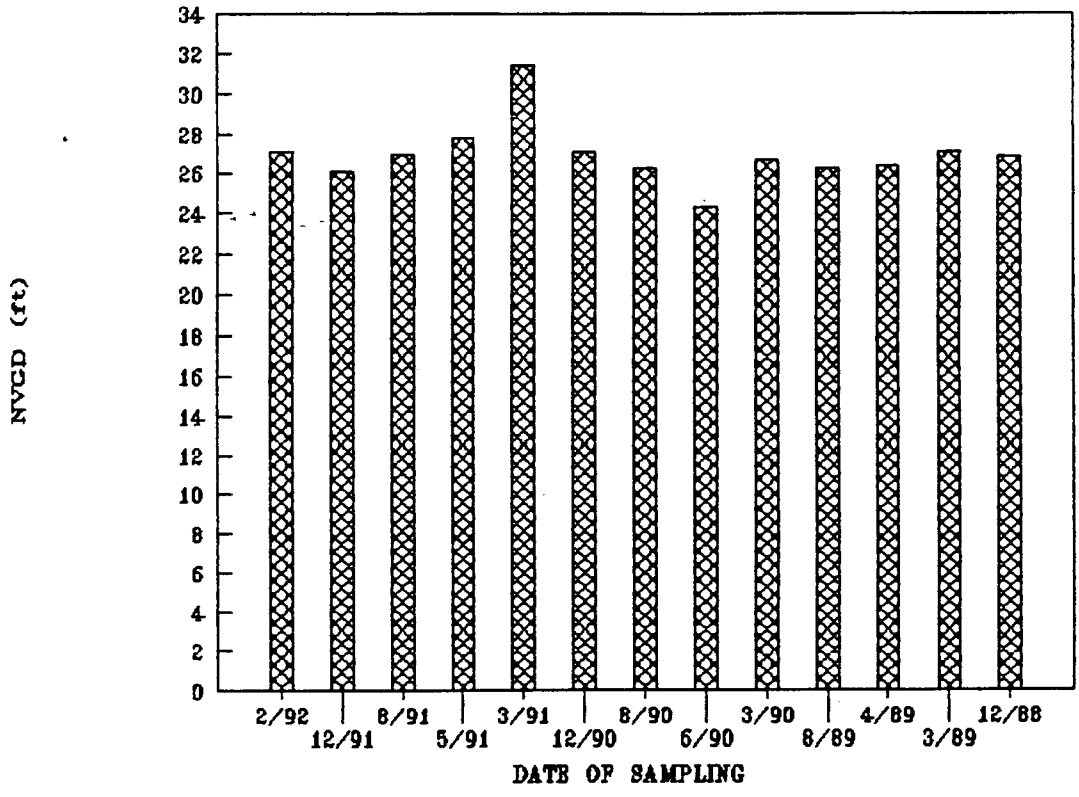




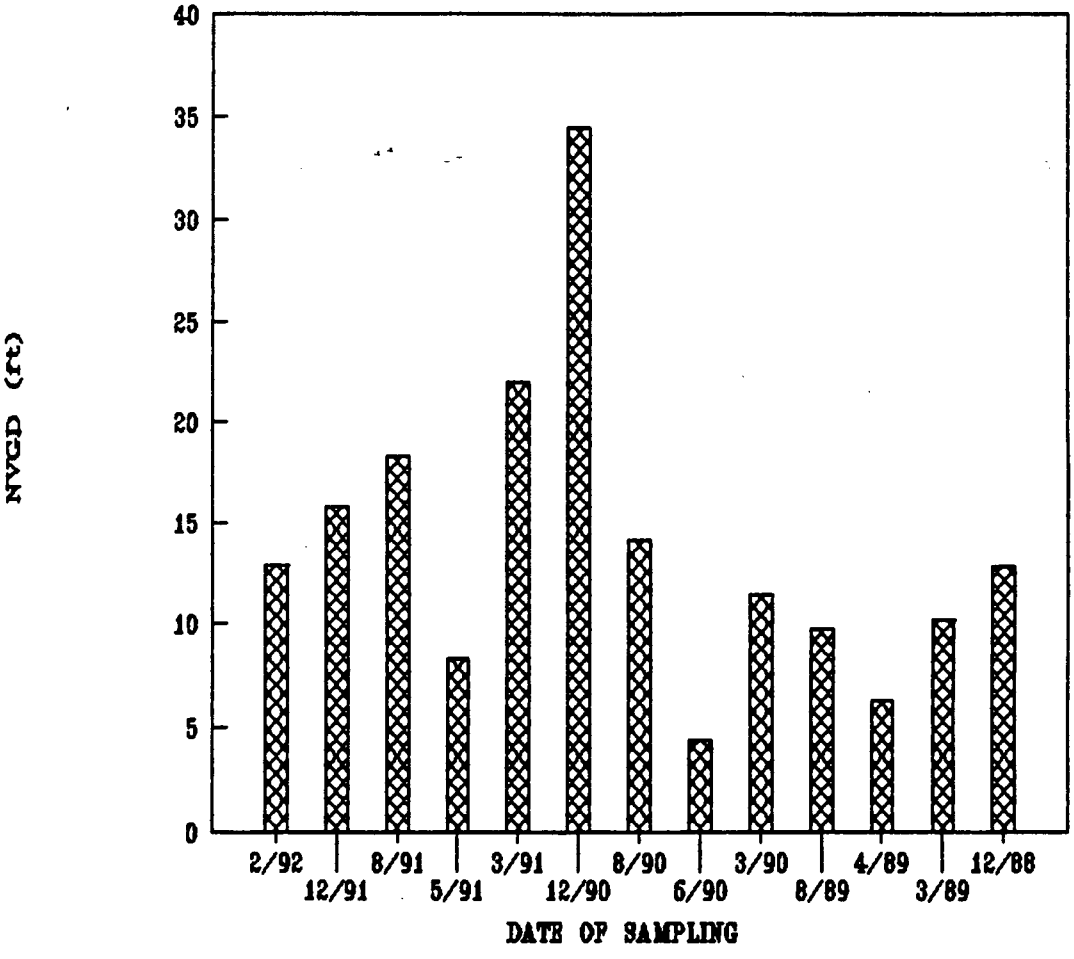
Graph-In-the-Box EXECUTIVE

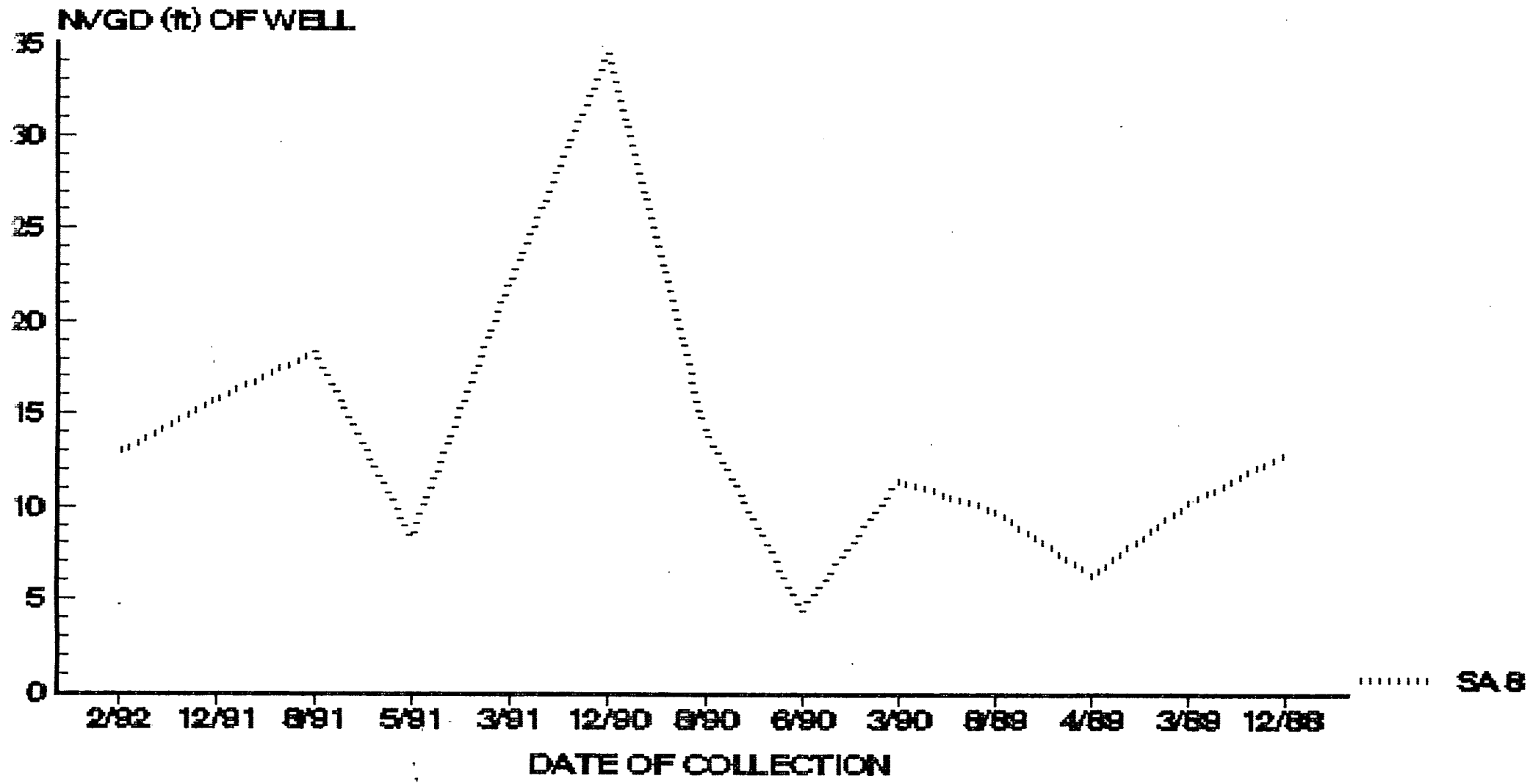
GC:1

ACCUMULATED NVGD FOR GC1



ACCUMULATED NVGD FOR SA 8

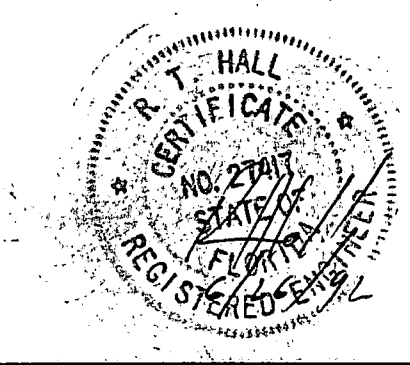




LANDFILL NVGD FOR WELLS

Piezometer Water
Elevations Table

RECENT INSTALLATIONS OF PIEZIOMETERS HAS RESULTED IN COLLECTION OF NVGD DATA.



LENA ROAD LANDFILL PIEZIOMETER DATA

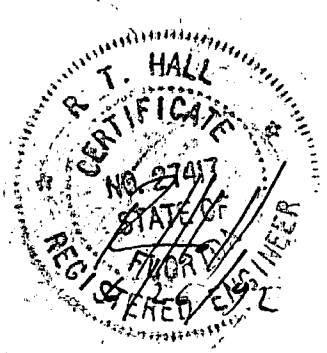
PIEZOMETER NUMBER	(TOC) PIEZOMETER ELEVATION (ft)	DEPTH TO WATER SURFACE (ft) 5/91	6/91	7/91	8/91	9/91	10/91	12/91	3/92
1	41.52	12.21 29.31	11.92 29.60	12.13 29.39	12.08 29.44	11.96 29.56	11.96 29.56	12.19 29.33	12.00 29.52
2	42.53	12.38	12.33	12.25	12.25	12.13	12.29	9.25	12.25
3	44.93	14.58	12.63	12.50	12.50	12.50	15.96	11.63	13.67
4	45.04	13.92	14.83	15.00	14.71	14.92	14.67	14.75	14.71
5	43.71	13.33	13.17	13.33	13.33	13.25	13.08	13.46	13.15
6	44.33	13.00	12.83	13.04	13.00	12.83	12.92	13.25	12.92
7	44.69	11.04	10.67	11.08	11.13	11.21	11.33	11.50	11.21
12	38.39	9.08	8.37	9.21	8.13	9.17	9.50	6.79	9.37
13	35.09	7.25	6.33	7.50	6.83	7.50	7.88	11.04	7.58
14	33.47	5.83	2.70	6.71	5.75	6.83	7.25	7.41	6.65
15	33.20	4.92	4.41	5.21	5.00	5.33	5.04	6.54	5.42
16	34.63	6.87	6.50	6.42	6.25	6.33	6.50	7.08	6.29
17	40.82	11.58	11.08	11.66	11.46	11.58	11.28	12.21	11.83

PIEZIOMETER NVGD DATA

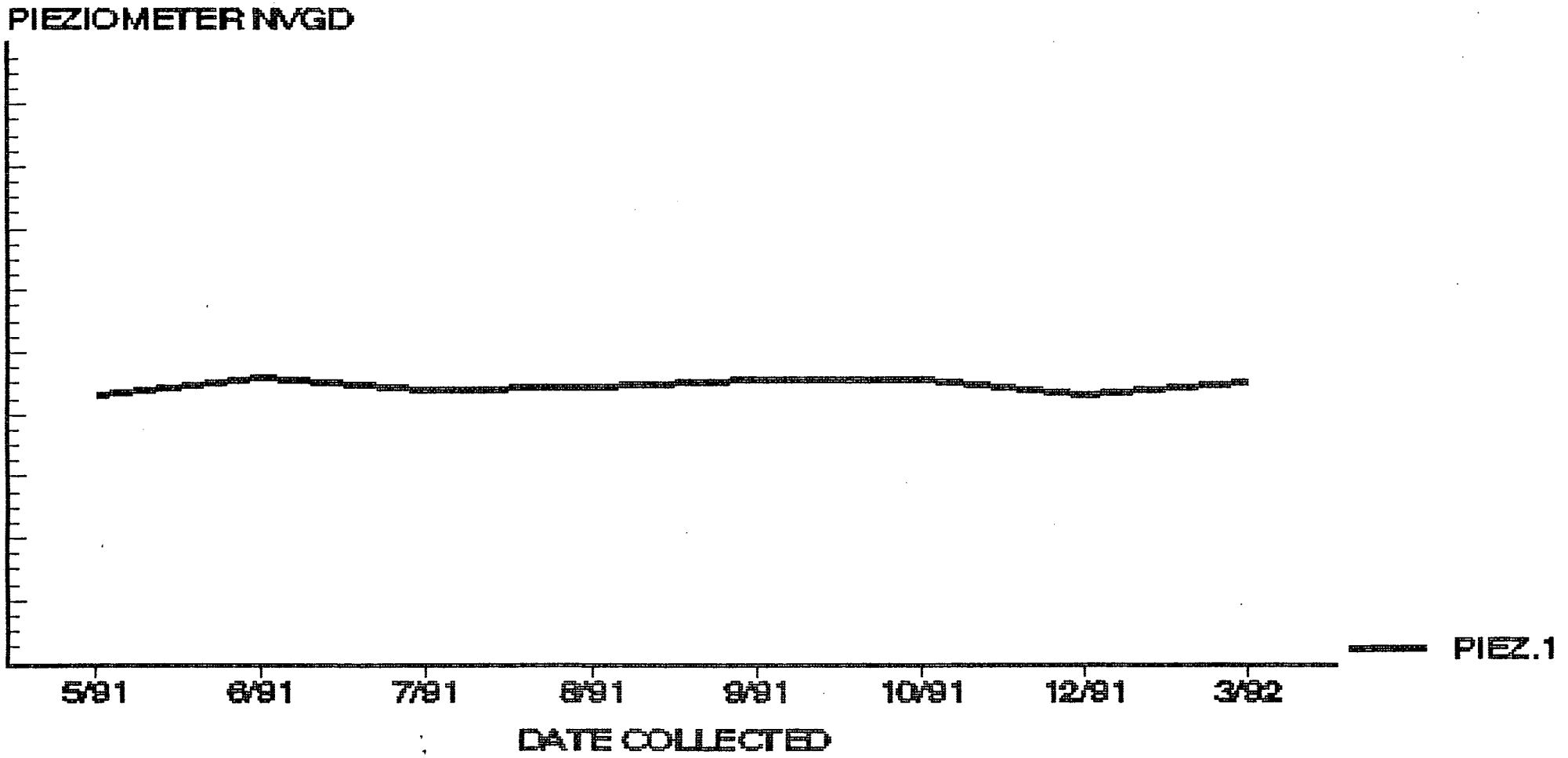
PIEZOMETER NUMBER	5/91	6/91	7/91	8/91	9/91	10/91	12/91	3/92
1	29.31	29.6	29.39	29.44	29.56	29.56	29.33	29.52
2	30.15	30.2	30.28	30.28	30.4	30.24	33.28	30.28
3	30.35	32.3	32.43	32.43	32.43	28.97	33.3	31.26
4	31.12	30.21	30.04	30.33	30.12	30.37	30.29	30.33
5	30.38	30.54	30.38	30.38	30.46	30.63	30.25	30.56
6	31.33	31.5	31.29	31.33	31.5	31.41	31.08	31.41
7	33.65	34.02	33.61	33.56	33.48	33.36	33.19	33.48
12	29.31	30.02	29.18	30.26	29.22	28.89	31.6	29.02
13	27.84	28.76	27.59	28.26	27.59	27.21	24.05	27.51
14	27.64	30.77	26.76	27.72	26.64	26.22	26.06	26.82
15	28.28	28.79	27.99	28.2	27.87	28.16	26.66	27.78
16	27.76	28.13	28.21	28.38	28.3	28.13	27.55	28.34
17	29.24	29.74	29.16	29.36	29.24	29.54	28.61	28.99

Piezometer Water
Elevations Graphs

GRPHICAL DEPICTION OF EACH PIEZIOMETER NVGD FOR TIME

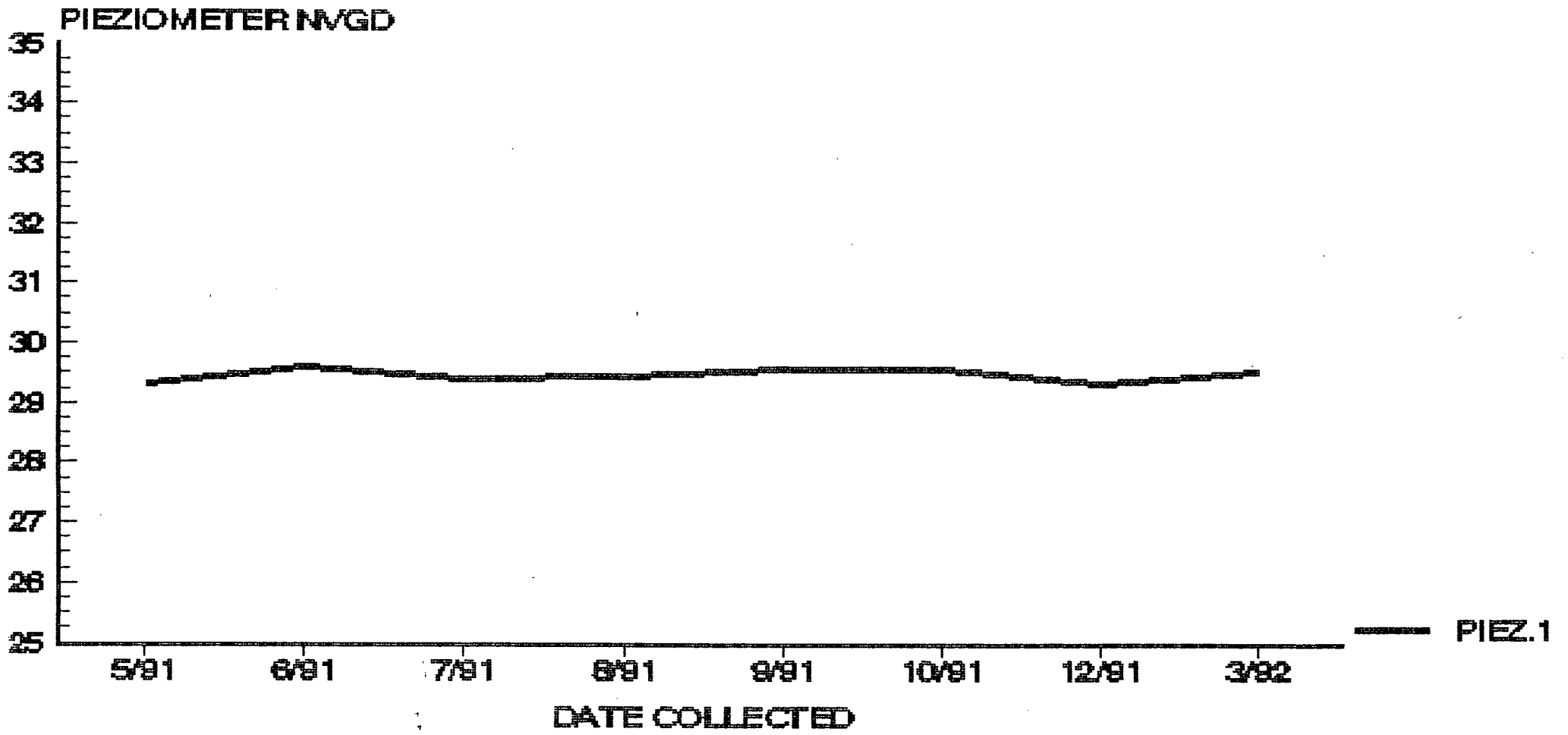


PIEZIOMETER NVGD



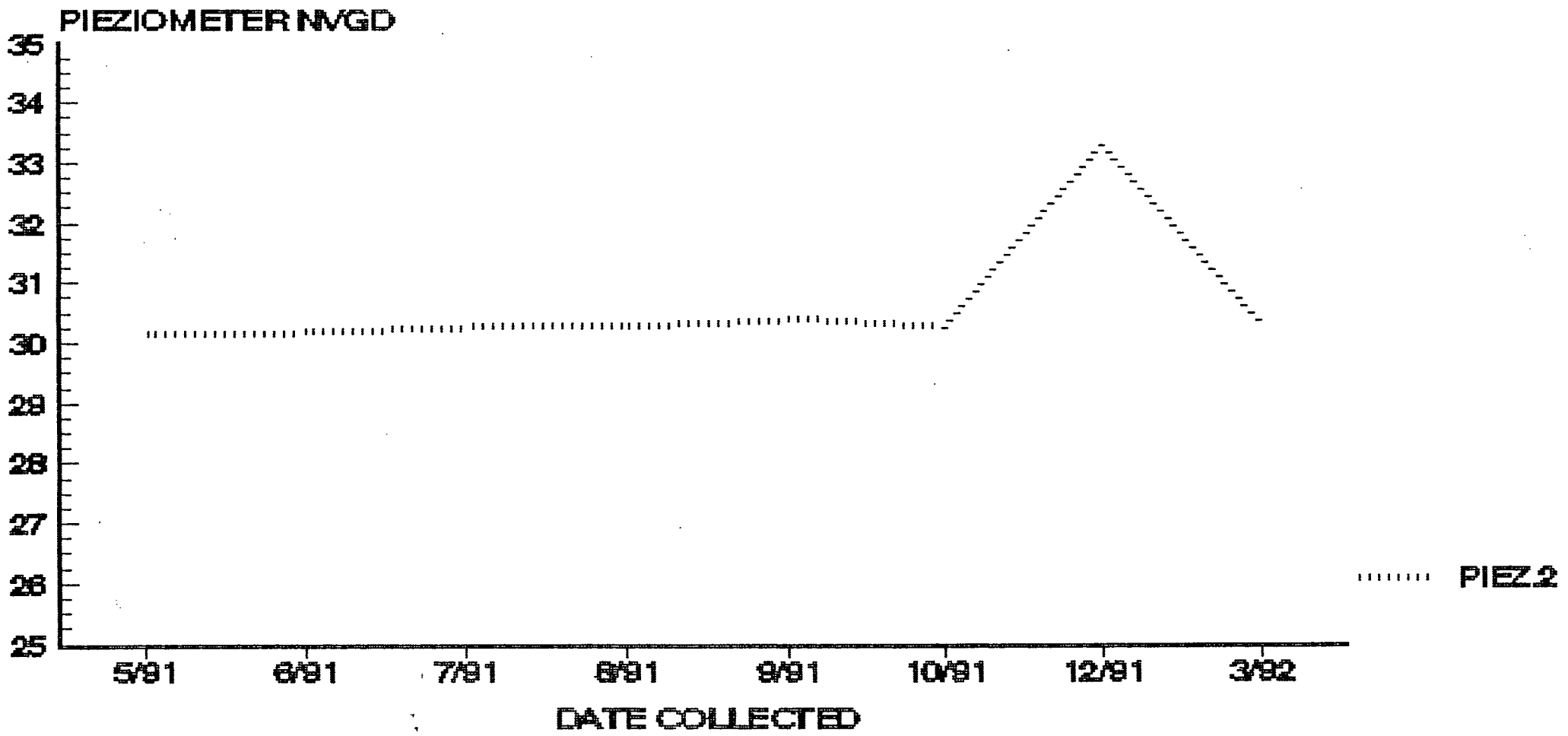
ORGANIC DATA

PIEZIOMETER NVGD



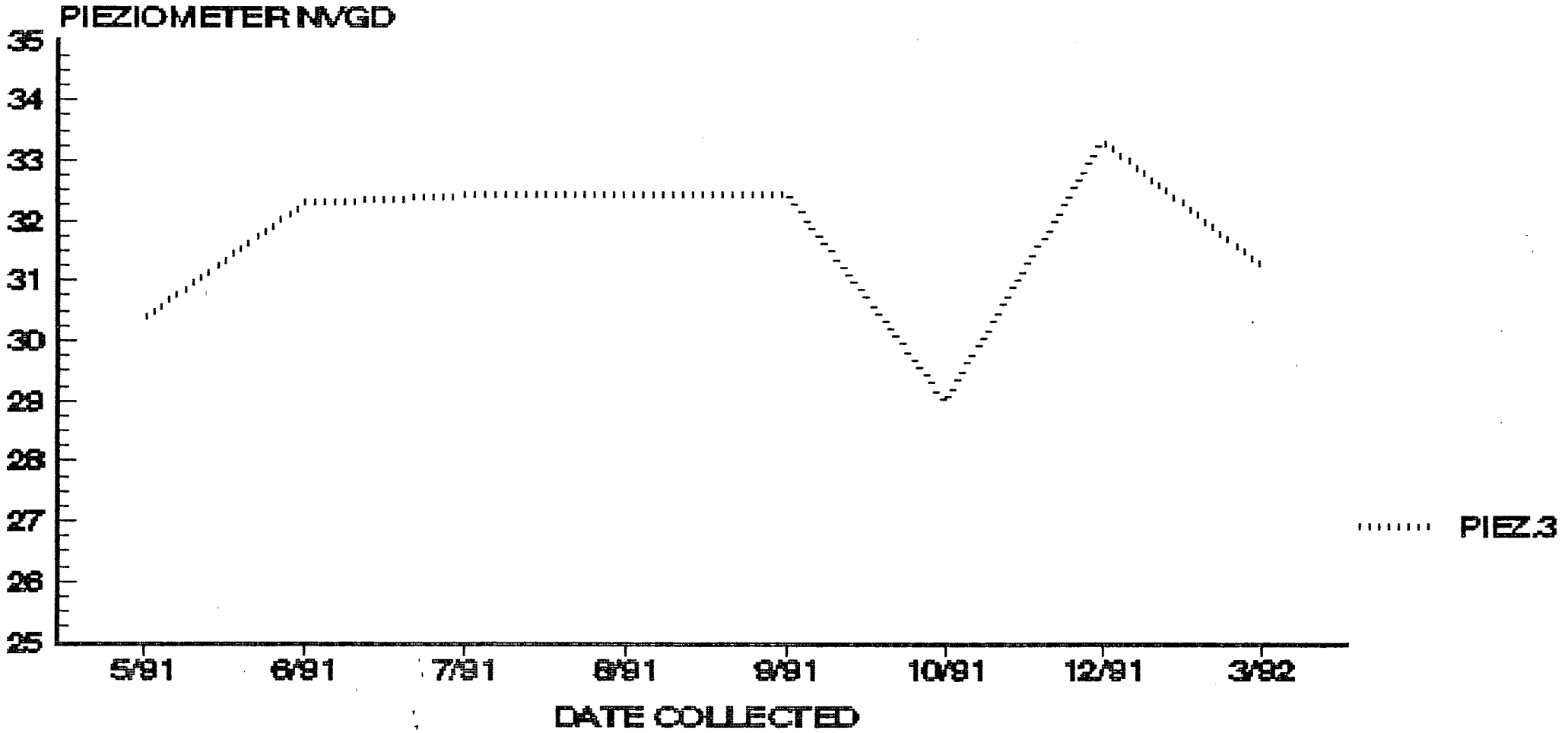
INORGANIC DATA

PIEZIOMETER NVGD



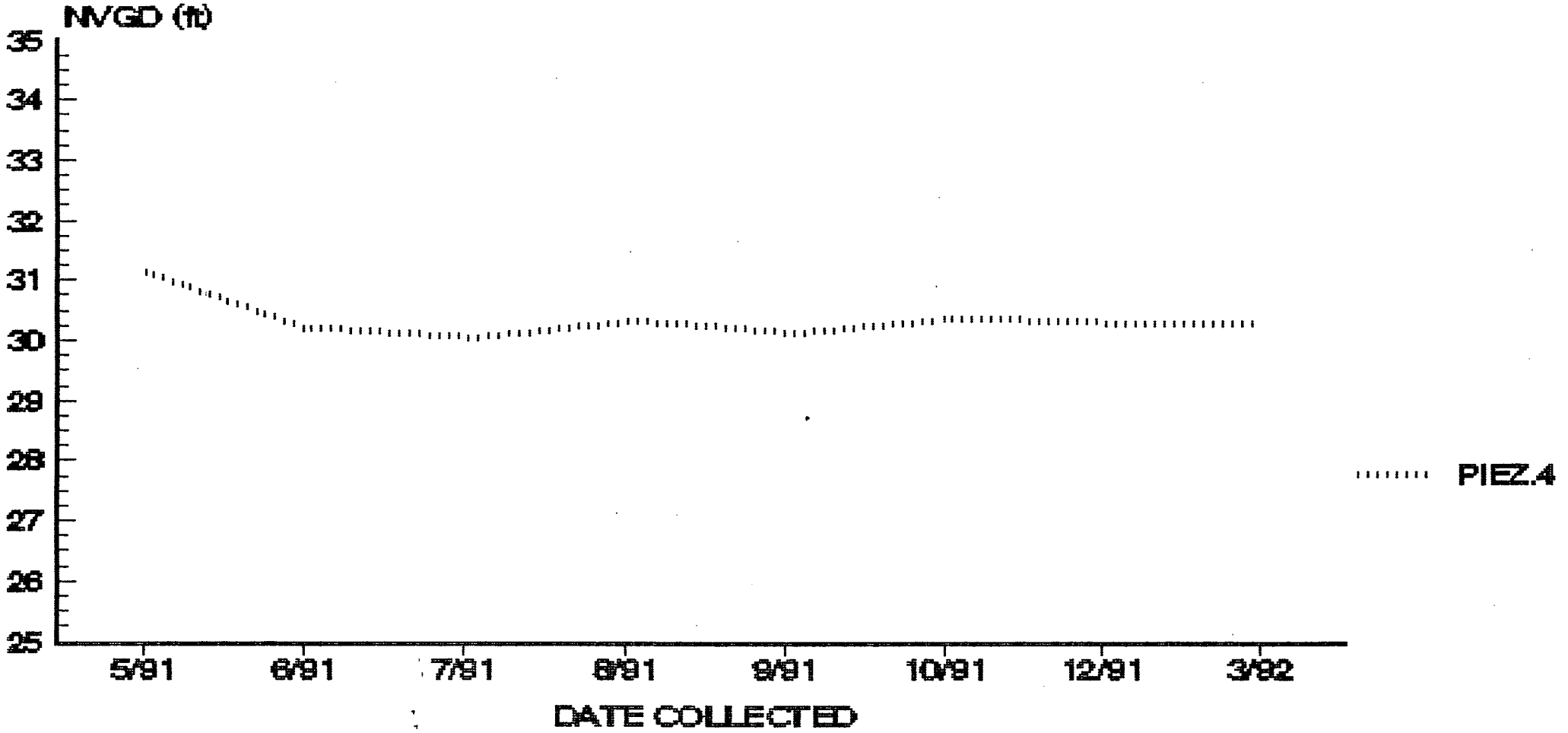
INORGANIC DATA

PIEZIOMETER NVGD



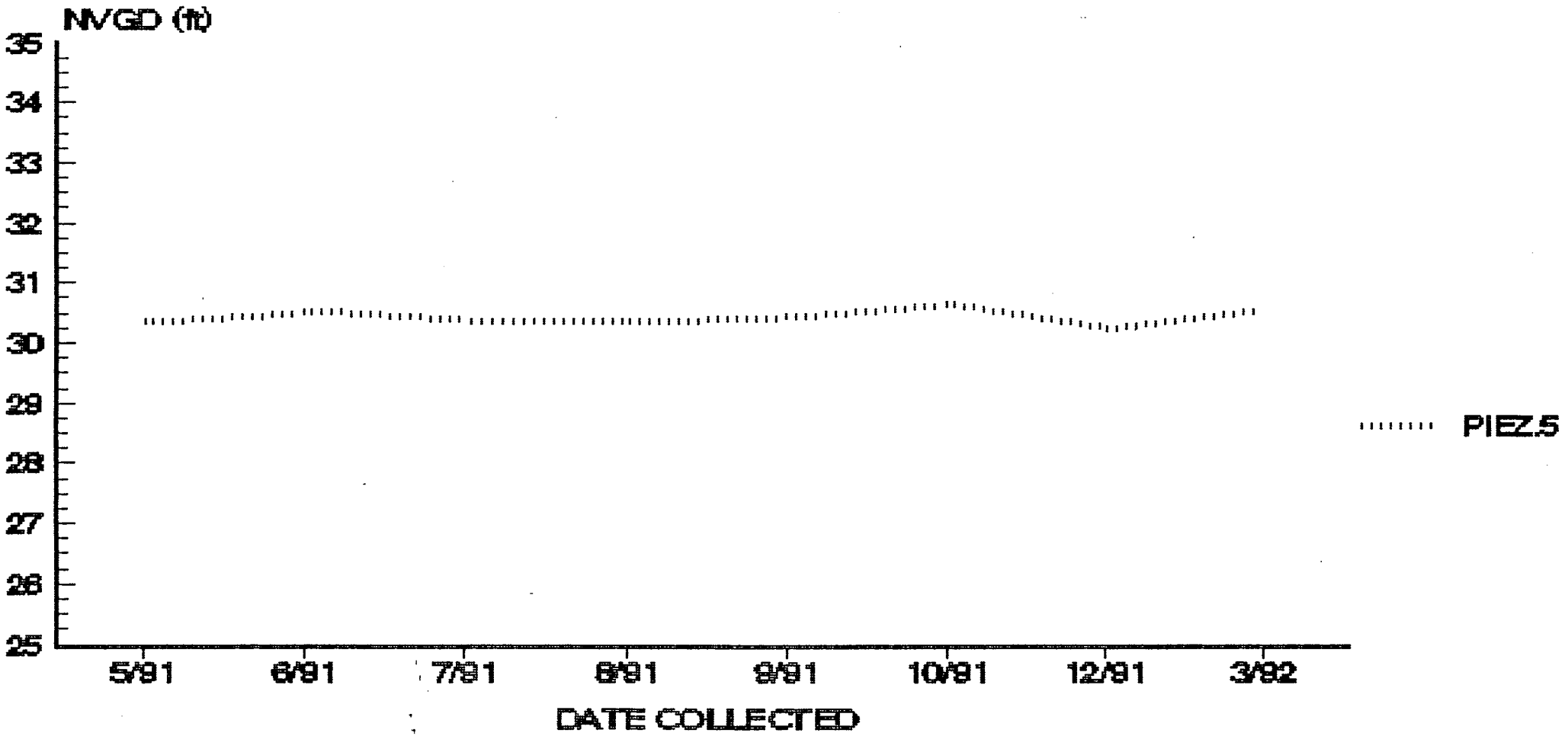
INORGANIC DATA

PIEZIOMETER NVGD



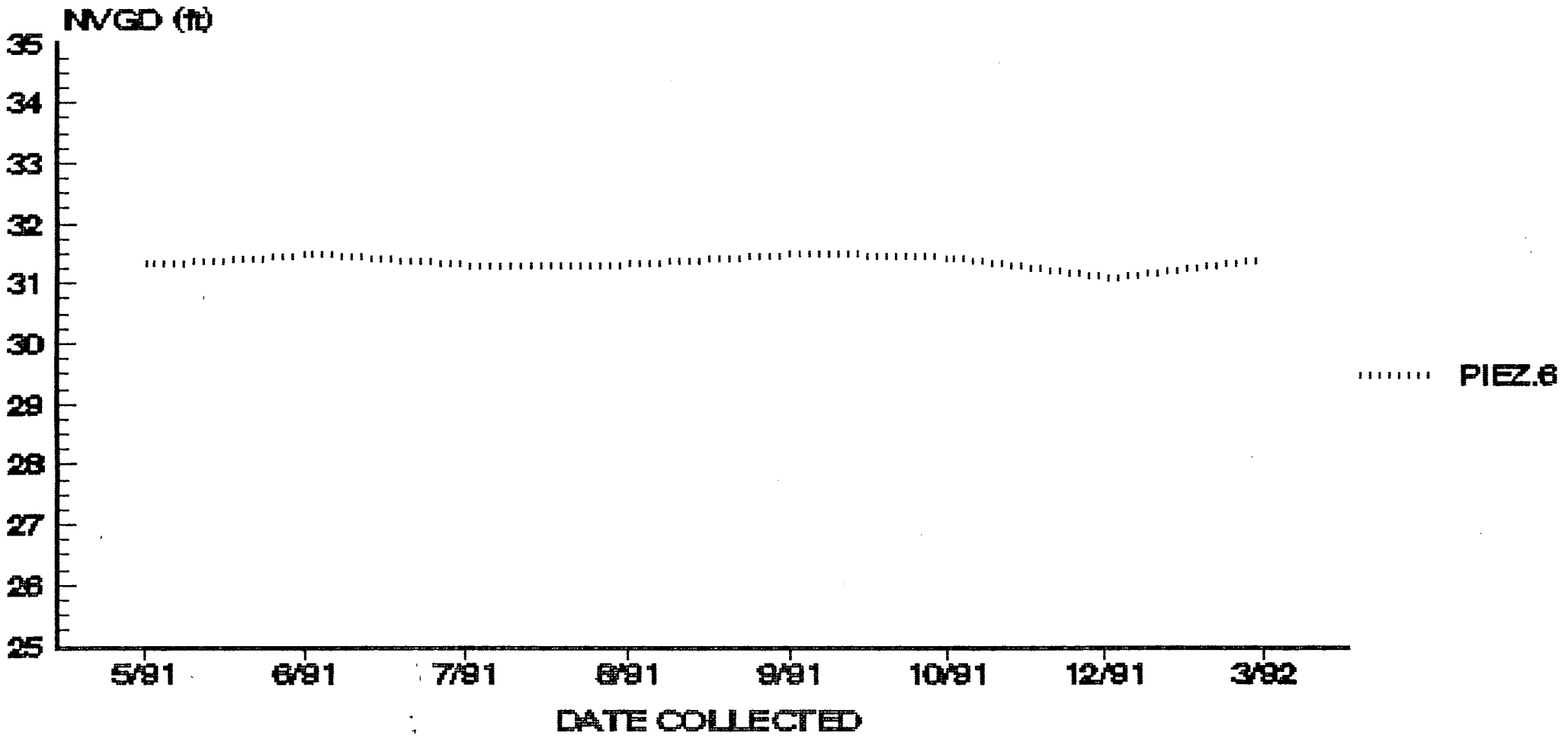
INORGANIC DATA

PIEZIOMETER NVGD

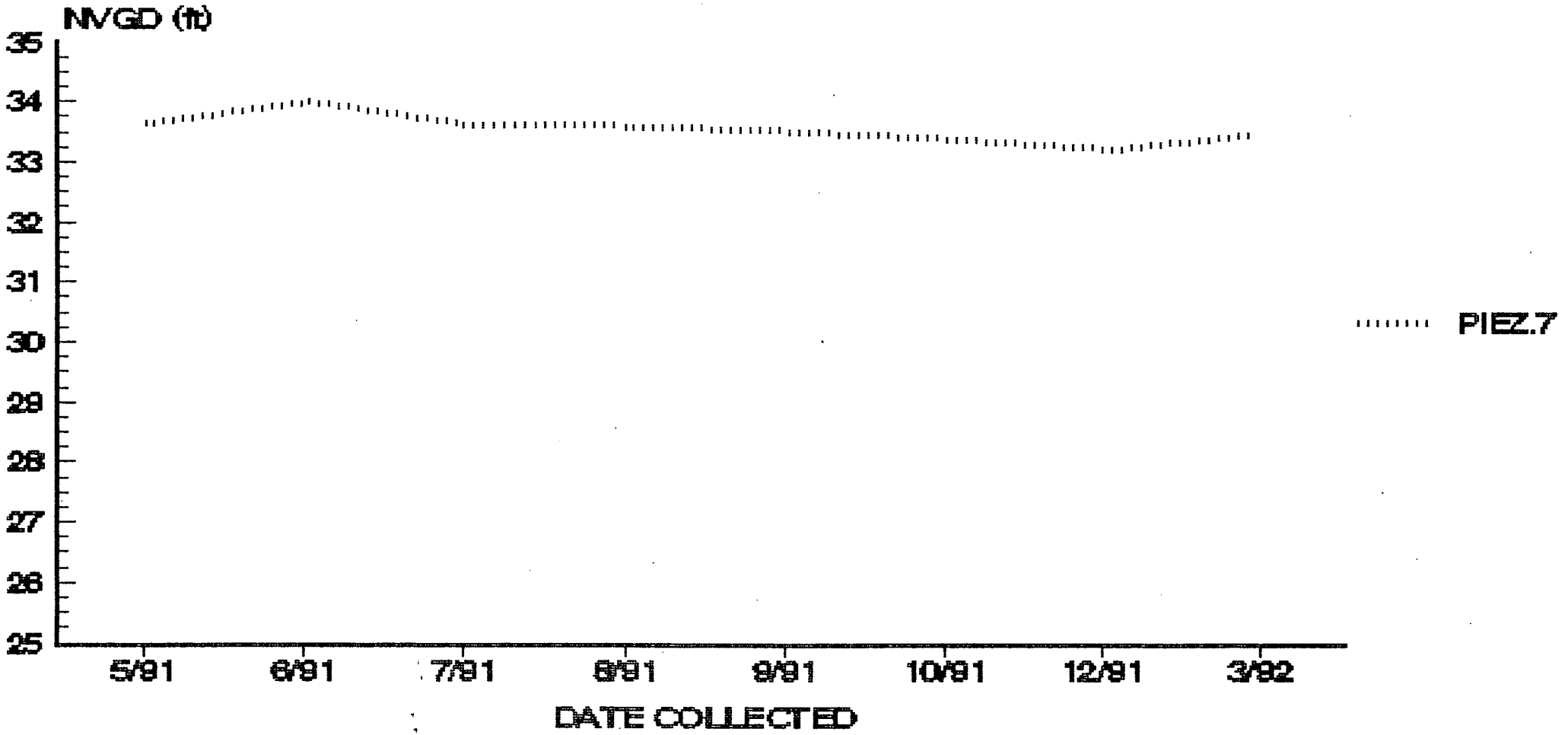


NORGANIC DATA

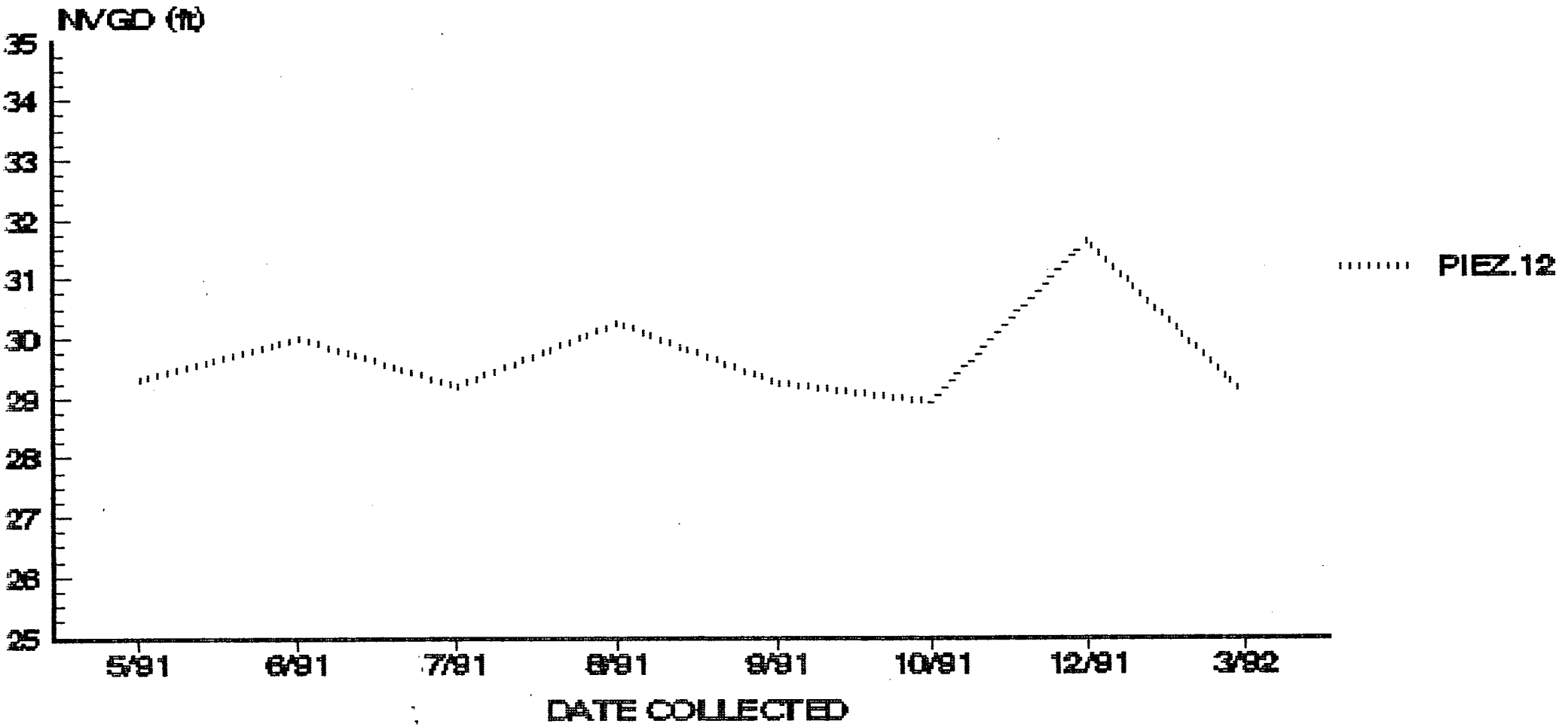
PIEZIOMETER NVGD



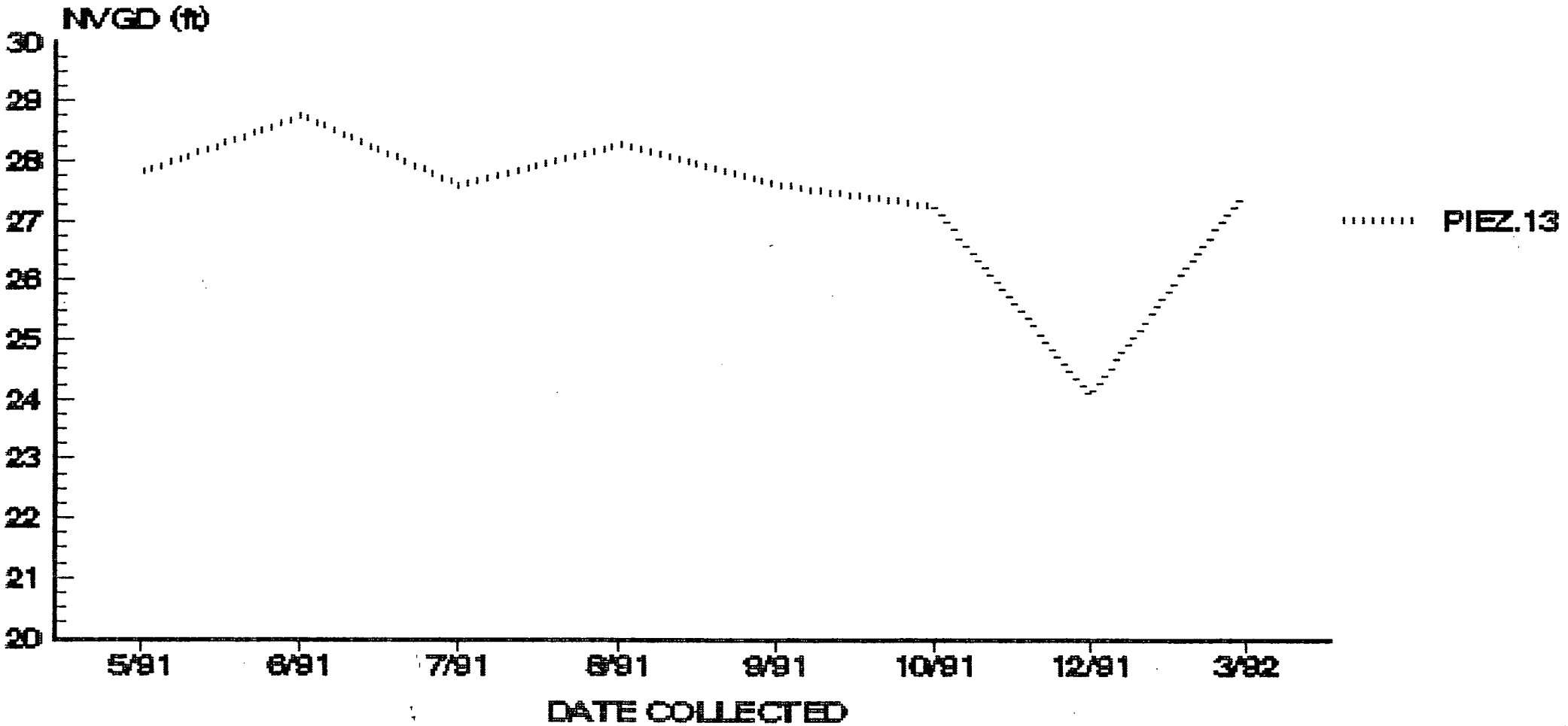
PIEZIOMETER NVGD



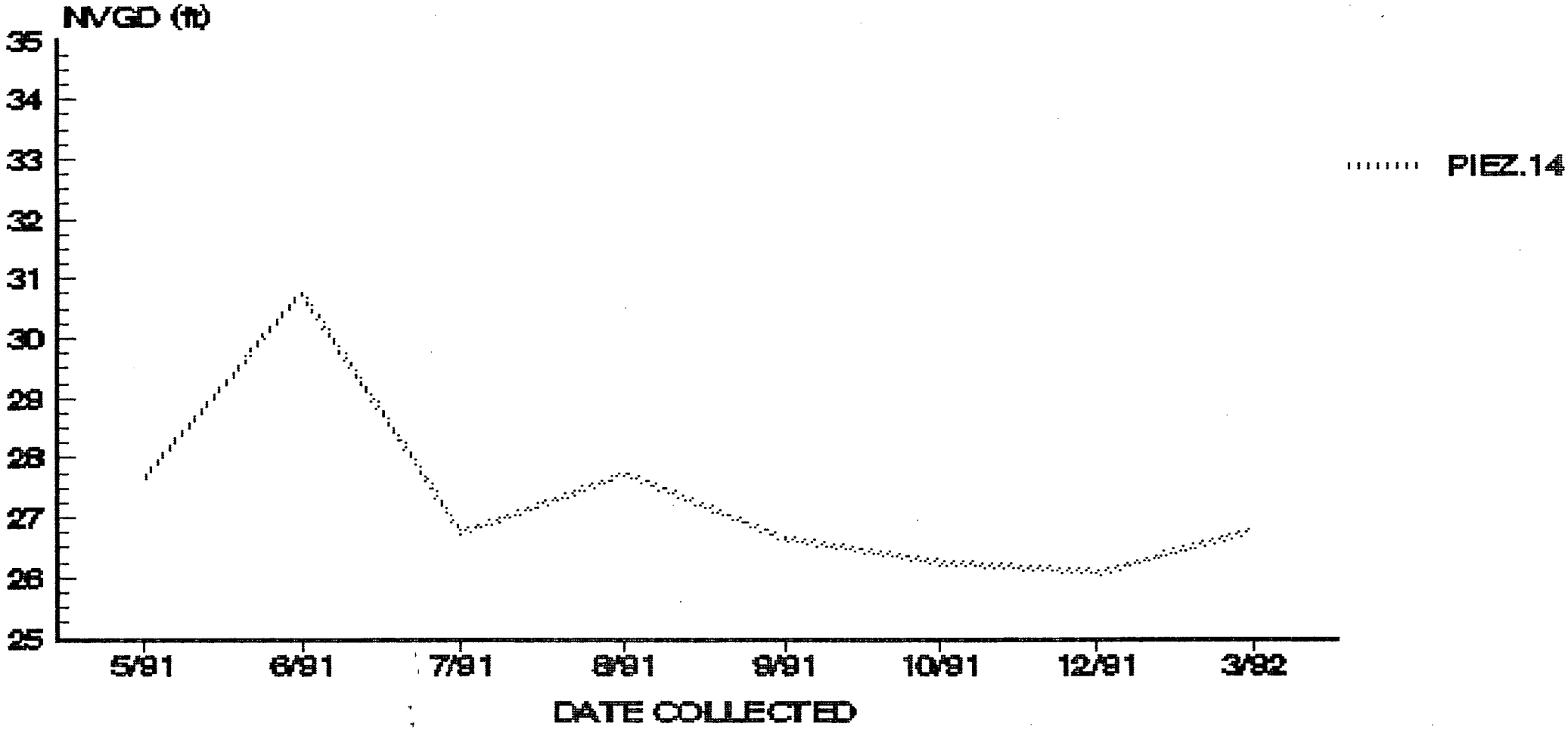
PIEZIOMETER NVGD



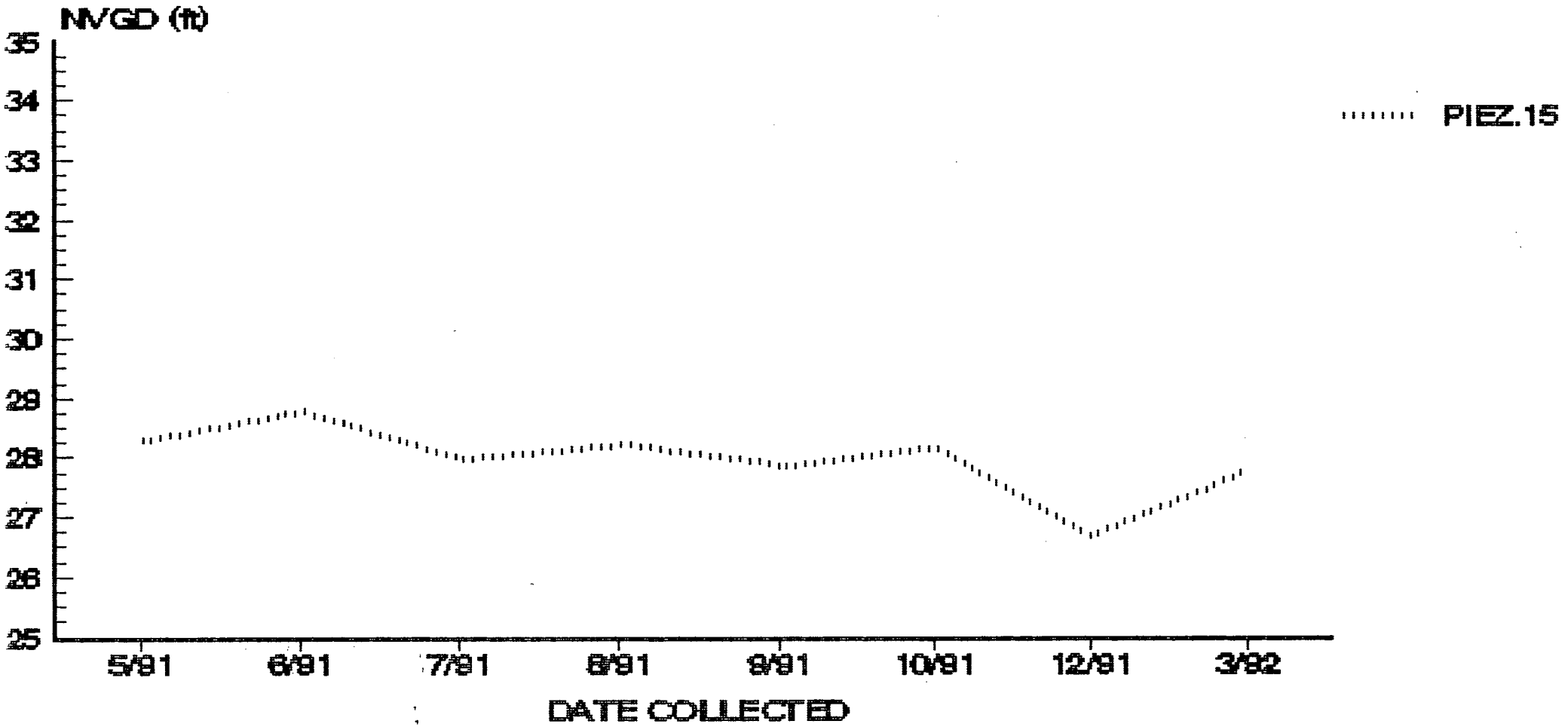
PIEZIOMETER NVGD



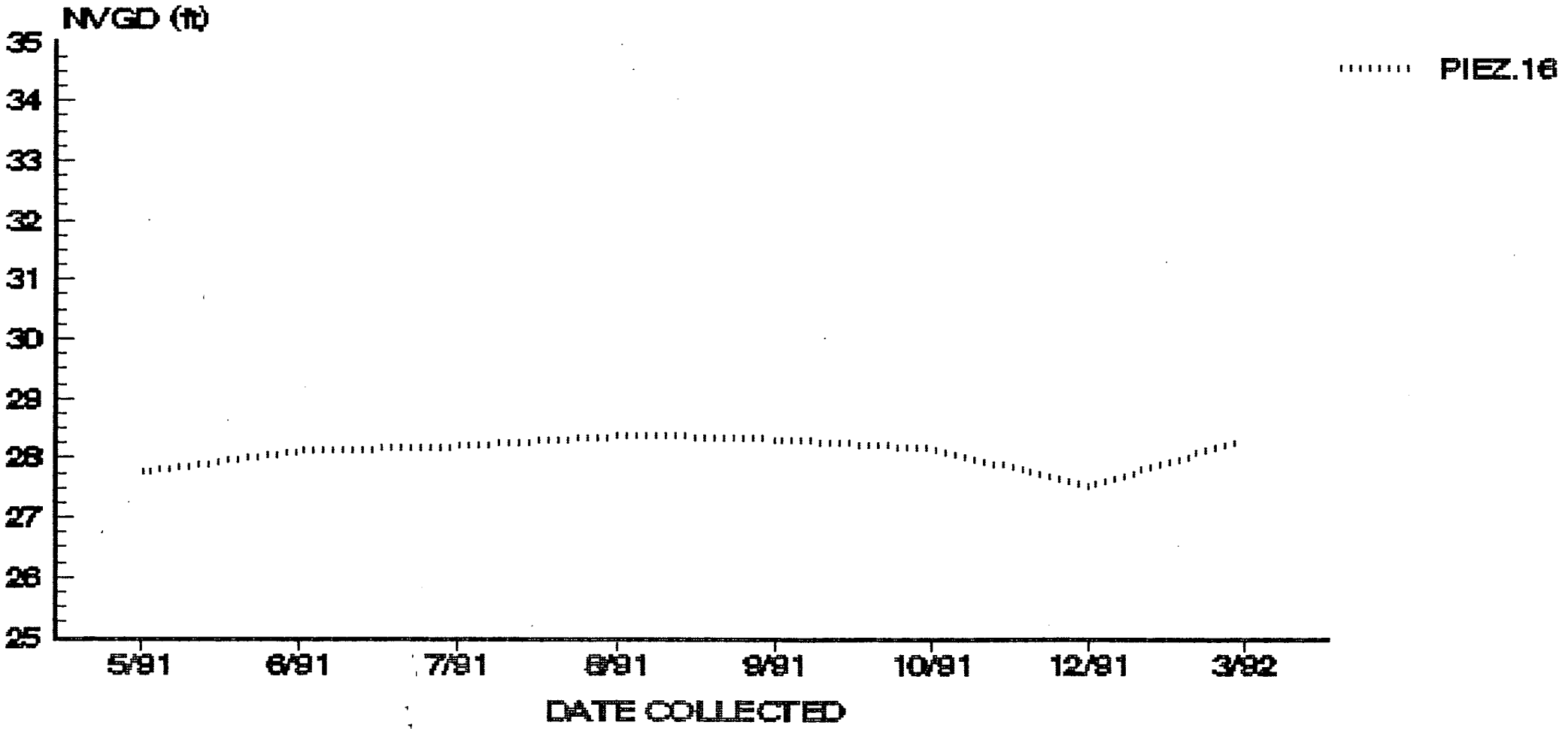
PIEZIOMETER NVGD



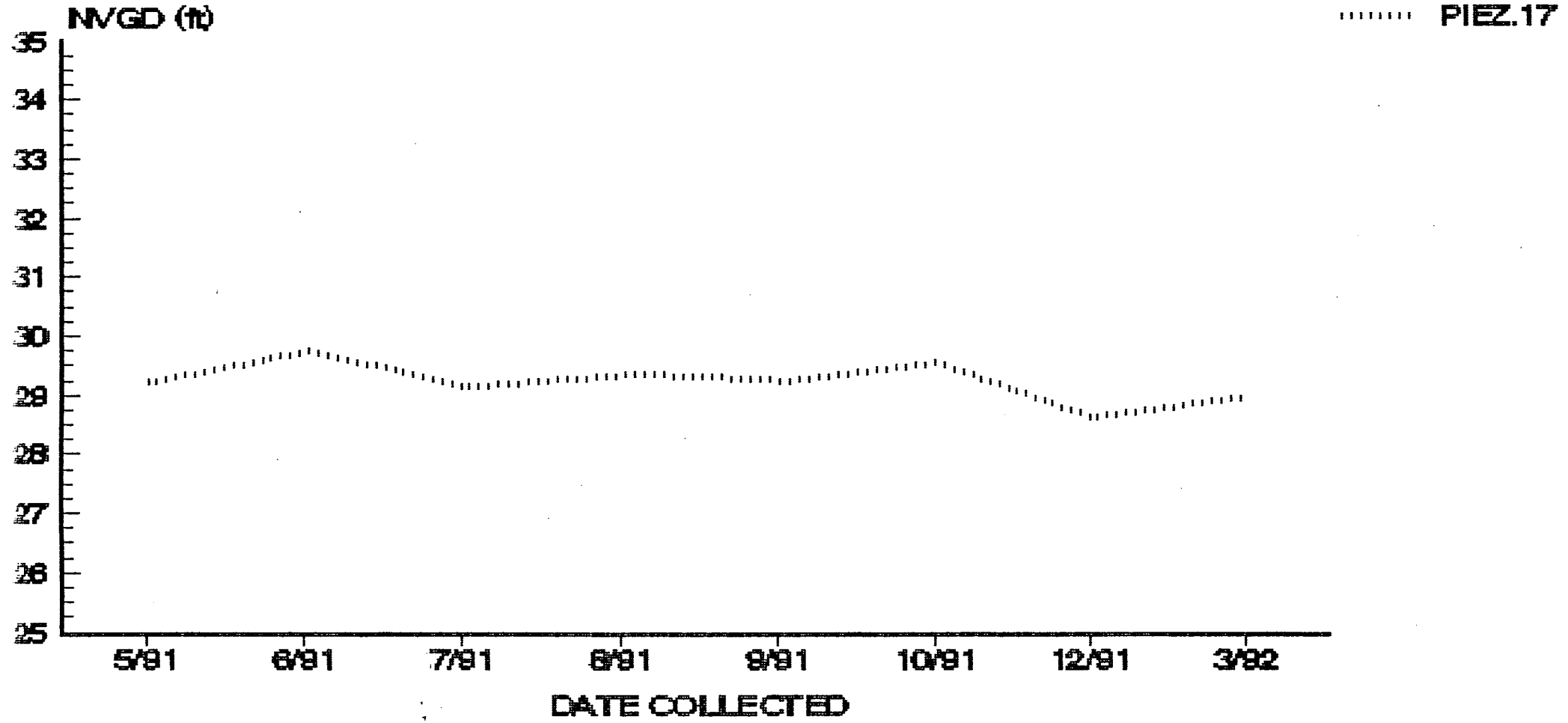
PIEZIOMETER NVGD



PIEZIOMETER NVGD



PIEZIOMETER NVGD



Groundwater
Comparison Table

TABLE EMPHASIZES THAT THE MEAN PIEZIOMETER NVGD IS LESS THAN THE MEAN WELL NVGD. SUGGESTING THAT FLOW INTO THE SLURRY WALL.

WELL	ASSOCIATED PIEZIOMETER**	WELL NVGD 2/92	12/91	8/91	5/91	WELL MEAN	PIEZIOMETER MEAN	DELTA NVGD*
MW 1	PZ 3	30.22 31.26	29.47 33.3	32.93 32.43	31.35 30.35	30.99	30.98	0.01
MW 2	PZ 2	32.61 30.28	30.60 33.28	31.10 30.28	31.10 30.15	31.35	31.17	0.18
CW 4	PZ 4	35.62 30.33	31.54 30.29	32.54 30.33	33.01 31.12	33.18	32.30	0.88
CW 5	PZ 5	37.25 30.56	35.42 30.25	38.00 30.38	36.50 30.38	36.79	36.23	0.56
MW 6	PZ 7	33.19 33.48	32.22 33.19	34.02 33.56	33.49 33.65	33.23	32.91	0.32
LRII 5	PZ 8	31.60	28.99	32.28	32.78	31.41	31.40	0.01
LRII 3	PZ 9	26.63	25.26 ?	28.09 ?	29.01 ?	27.25	26.64	0.61
SA 6	PZ 10	15.14 ?	18.74 ?	19.12 ?	13.79 ?	16.70	14.83	1.87
SA 5	PZ 11	16.42	19.32	21.84	15.00	18.15	15.60	2.55
Floridan SA 2	PZ 12	19.77 29.02	21.27 31.60	21.22 30.26	18.97 29.31	20.31	20.00	0.31
Floridan SA 3	PZ 13	13.12 27.51	13.66 24.05	18.62 28.26	14.54 27.84	14.98	13.32	1.66
GC 4	PZ 14	28.31 26.82	26.31 26.06	28.81 27.72	29.48 27.64	28.23	28.11	0.12
Floridan SA 4	PZ 15	9.78 27.76	14.61 26.66	19.03 28.2	12.53 28.28	13.99	13.49	0.5
GC 5	PZ 16	29.19 28.34	27.94 27.55	29.02 28.38	30.27 27.76	29.11	28.71	0.4
GC 6	PZ 17	31.56 28.99	30.77 28.61	31.35 29.36	32.85 29.24	31.63	31.31	0.32

installed April 1992

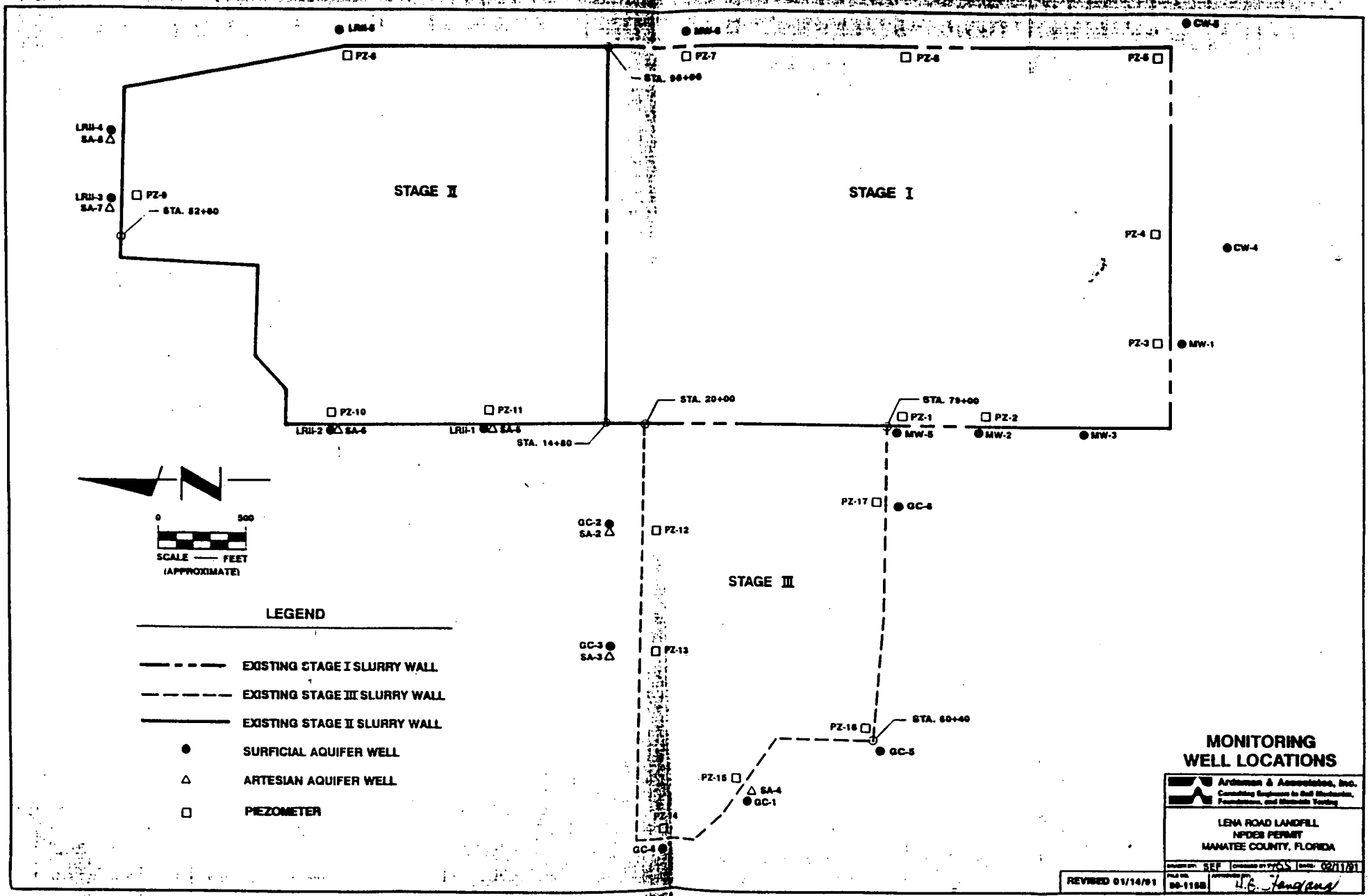
NOTES

* Defined as (Mean Well NVGD - Mean Pieziometer NVGD)

** See attached Monitoring Well Location map

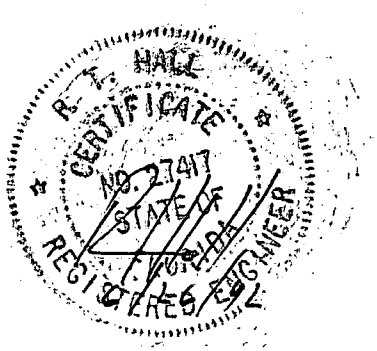
*** For those corresponding to similar dates for Landfill collections

↑ What does this mean?

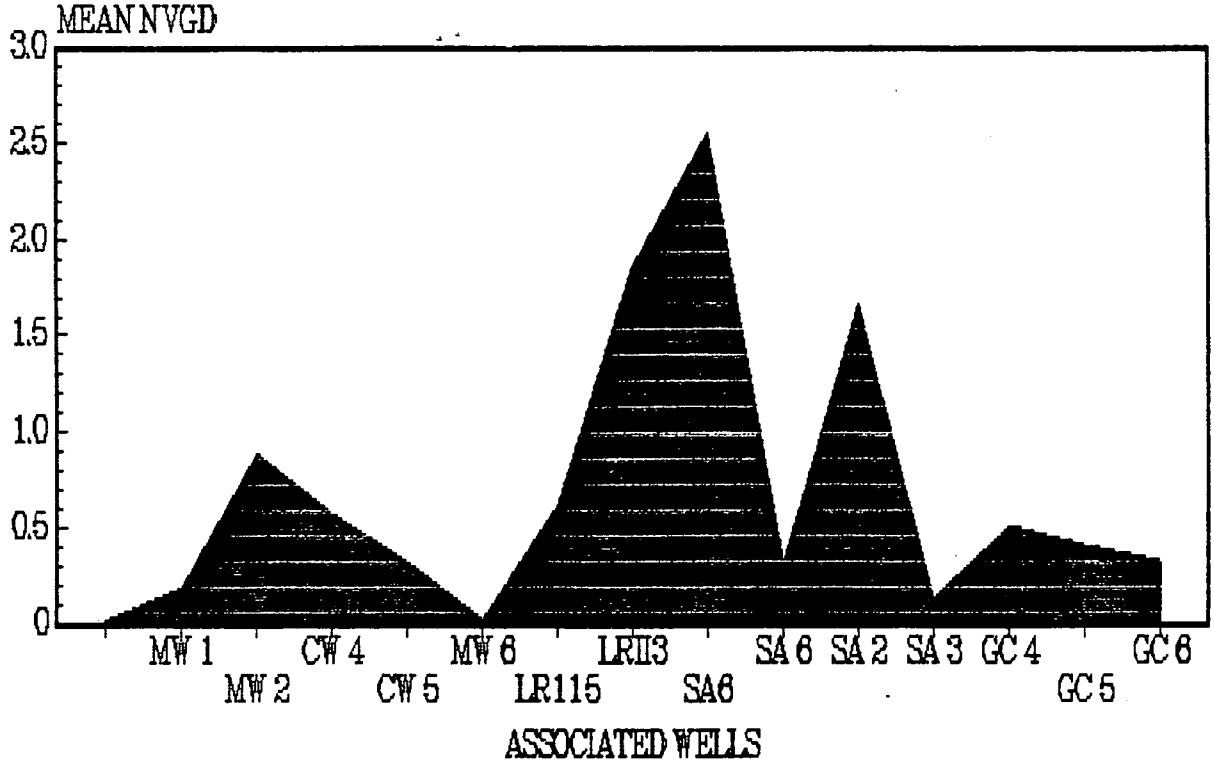

LRM-6
MW-6
CW-5
PZ-6
PZ-7
PZ-8
PZ-9
STA. 98+00
LRII-4
SA-6
LRII-3
SA-7
PZ-5
STA. 82+00
STAGE II
STAGE I
PZ-4
CW-4
PZ-3
MW-1
PZ-10
PZ-11
LRII-2
SA-5
LRII-1
SA-5
STA. 20+00
STA. 14+80
STA. 79+00
PZ-1
PZ-2
MW-5
MW-2
MW-3
PZ-17
GC-6
GC-2
SA-2
PZ-12
STAGE III
GC-3
SA-3
PZ-13
PZ-16
STA. 60+40
GC-5
PZ-15
SA-4
GC-1
PZ-14
GC-4
0
500
SCALE — FEET
(APPROXIMATE)
LEGEND
EXISTING STAGE I SLURRY WALL
EXISTING STAGE III SLURRY WALL
EXISTING STAGE II SLURRY WALL
SURFICIAL AQUIFER WELL
ARTESIAN AQUIFER WELL
PIEZOMETER
MONITORING
WELL LOCATIONS
Anderson & Associates, Inc.
Consulting Engineers in Soil Mechanics, Foundations, and Materials Testing
LENA ROAD LANDFILL
NPDES PERMIT
MANATEE COUNTY, FLORIDA
SEF
02/11/91
REVISED 01/14/91
88-115B
H.C. Jongeling

Groundwater
Comparison Graph

GRAPH OF THE SAME NVGD DIFFERENCE DEPICTING THE INCREASE IN NVGD OF EACH WELL OVER ITS ASSOCIATED PIEZIOMETER



DELTA NVGD
FOR ASSOCIATED WELLS AND PIEZIOMETERS



Detection of
Metals Table

ONLY TWO MEATLS, SODIUM AND IRON, HAD ANY SIGNIFICAL DATA. ALL REMAINING METALS WERE TYPICALLY REPORTED AT DETECTION LIMITS

LANDFILL MOPNITORING WELLS COMPOSITE METALS ANALYSES

	PARAMETER	MW 1	MW 2	MW 3	CW 4	CW 5	GC 1	GC 3	SA 2	SA 5
/92	Sodium	11.3	41.7	70.0	45.3	20.0	61.0	19.1	27.3	53.6
12/91	Sodium	7.28	55.7	67.2	43.8	19.5	52.9	23.0	27.4	52.4
/91	Sodium	8.79	24.2	98.0	38.3	18.5	108	21.2	22.9	56.2
/91	Sodium	8.23	71.4	68.4	55.8	22.1	23.7	21.3	34.6	55.3
3/91	Sodium	8.23	77.7	62.5	42.2	17.8		21.5	28.5	55.2
/90	Sodium	24.7	5.03	4.45	87.9	38.3		21.8	31.2	59.0

LANDFILL MONITORING WELLS COMPOSITE METALS ANALYSES

	PARAMETER	LRII-2	SA 6	MW 6	GC 5	SA 4	GC 4	SA 3
2/92	Sodium	4.96	48.4	17.2	20.3			
12/91	Sodium	4.96	44.6	17.2	14.1	60.4	19.7	35.7
8/91	Sodium	4.36	43.6	16.90	10.3	25.8	17.0	32.5
5/91	Sodium	4.09	46.1	14.10	19.2	65.1	21.8	26.7
3/91	Sodium	3.99	44.3	15.80	45.0		20.6	25.9
8/90	Sodium	5.03	47.1	8.05	19.7			32.5

LANDFILL MONITORING WELLS COMPOSITE METALS ANALYSES

	PARAMETER	GC 2	GC 6	LRII-1	SA 7	SA 8	LRII-3	LRII-4	LRII-5	SMR 1	SMR 2
2/92	Sodium	25.5	32.8	24.3	42.1	42.7	6.28	8.00	10.2	23.3	61.0
12/91	Sodium	27.1	33.5	25.2	39.3	40.9	5.83	7.57	10.4	23.0	59.4
8/91	Sodium	25.4	3.52	23.4	38.2	38.8	5.54	7.03	7.61	39.3	37.3
5/91	Sodium	27.9	26.9	26.4	41.0	42.4	5.72	6.89	11.5	23.7	62.1
3/91	Sodium	27.5	17.3	24.8	39.5	43.9	5.70	7.08	14.1	25.2	57.1
8/90	Sodium	33.1	61.8	24.7	40.1	40.8	4.45	8.05	13.7	23.4	58.9

		MW 1	MW 2	MW 3	CW 4	CW 5	GC 1	GC 3	SA 2	SA 5
2/92	Iron	4.56	2.63	3.22	4.40	2.17	29.0	7.35	0.330	(0.100
2/91	Iron	2.04	5.26	13.0	4.81	2.22	21.3	6.84	0.330	(0.100
3/91	Iron	4.10	4.53	13.60	5.32	2.87	21.4	6.62	0.758	(0.100
3/91	Iron	1.63	0.17	9.94	4.00	2.53	14.8	5.15	(0.100	(0.100
3/91	Iron	1.53	4.72	10.30	5.14	2.53	0.01	(0.100	(0.100	(0.100
3/90	Iron	1.85	2.67	13.20	9.52	4.42		5.79	(0.10	0.13

LANDFILL MONITORING WELLS COMPOSITE METALS ANALYSES

	PARAMETER	GC 2	GC 6	LRII-1	SA 7	SA 8	LRII-3	LRII-4	LRII-5	SMR 1	SMR 2
/92	Iron	36.6	9.56	27.3	(0.100	0.155	0.690	2.85	2.92	9.95	(0.100
2/91	Iron	30.9	6.97	23.7	(0.100	(0.100	0.759	2.49	2.38	7.10	(0.100
/91	Iron	37.1	6.61	28.60	(0.100	(0.100	0.71	2.91	1.88	10.6	(0.05
/91	Iron	8.26	5.54	16.9	(0.100	(0.100	0.57	2.23	2.79	6.54	(0.100
/91	Iron	(0.100	9.36	22.00	(0.100	(0.100	0.85	0.84	5.36	9.82	(0.100
/90	Iron	32.7	6.32	21.20	(0.05	0.3	0.76	2.99	5.29	10.6	(0.05

LANDFILL MONITORING WELLS COMPOSITE METALS ANALYSES

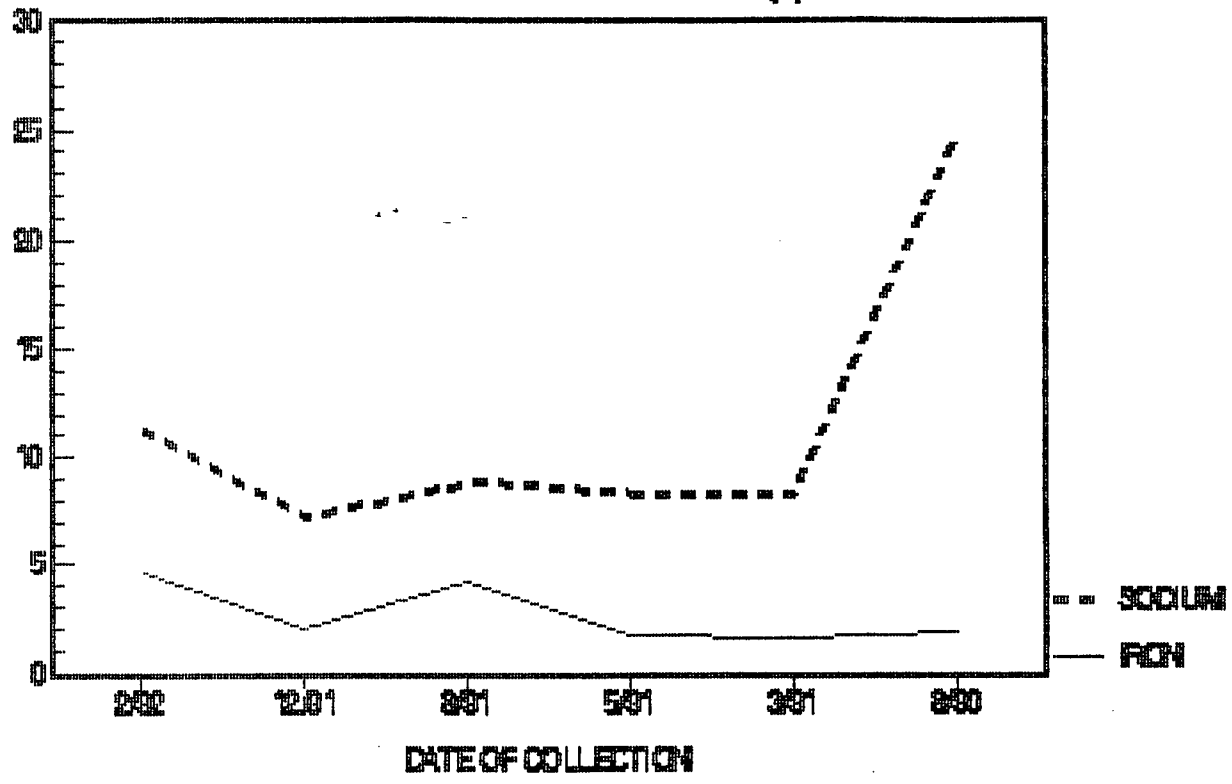
	PARAMETER	LRII-2	SA 6	MW 6	GC 5	SA 4	GC 4	SA 3
/92	Iron	4.83	(0.100	14.1	7.40			
2/91	Iron	3.39	(0.100	11.5	5.48	(0.100	14.4	0.108
/91	Iron	4.00	(0.100	9.94	1.81	(0.100	16.0	(0.100
/91	Iron	3.54	(0.100	5.95	3.39	(0.100	11.0	(0.100
/91	Iron	4.12	(0.100	7.39	7.63		12.3	(0.100
/90	Iron	3.31	(0.10	6.16	4.79	67.7		(0.10

Metal Concentration
Graphs

EACH WELL IS GRAPHICALLY DEPICTED FOR VARIATION IN EACH METAL. INDEPENDENT TREND ANALYSIS (BY LINEAR REGRESSION) WAS NOT FRUITFUL IN DEMONSTRATING A RELIABLE TRENDENCY. ALL REMAINING METALS WERE REPORTED AT THEIR DETECTION LIMITS.

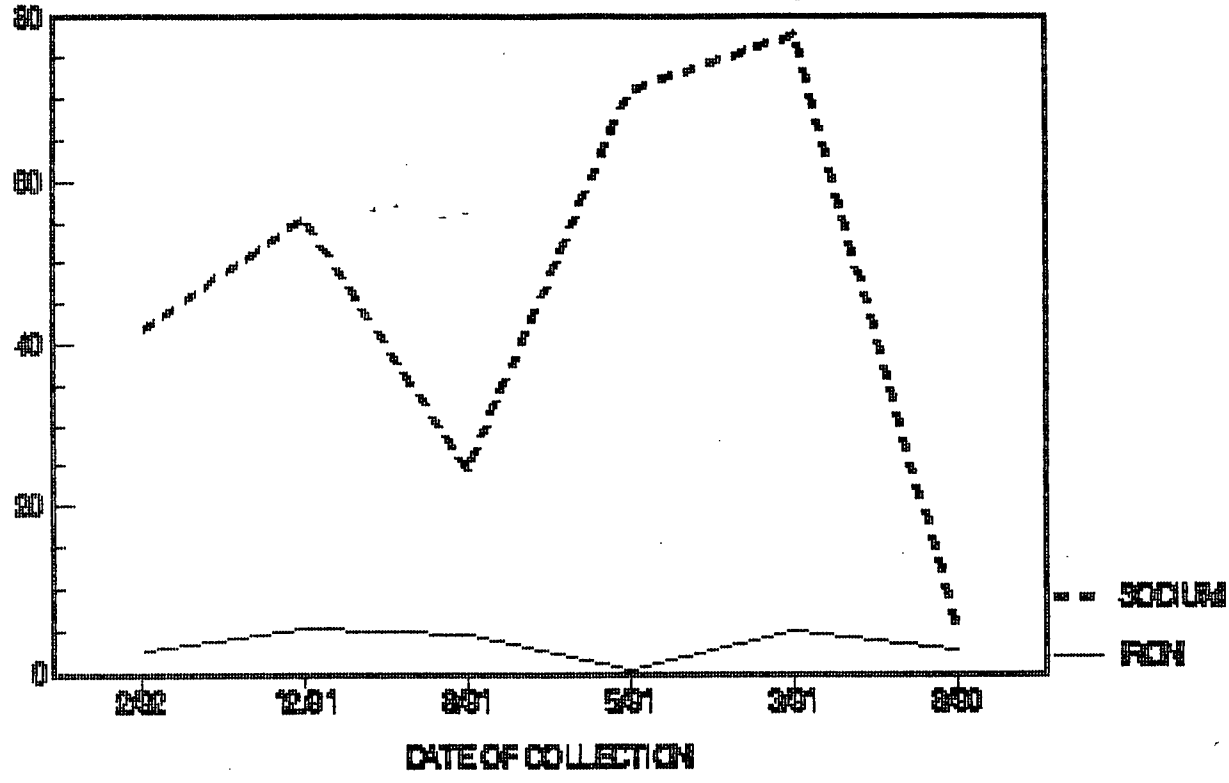
LENA ROAD LANDFILL WELL MW1

METALS CONCENTRATION (ppm)

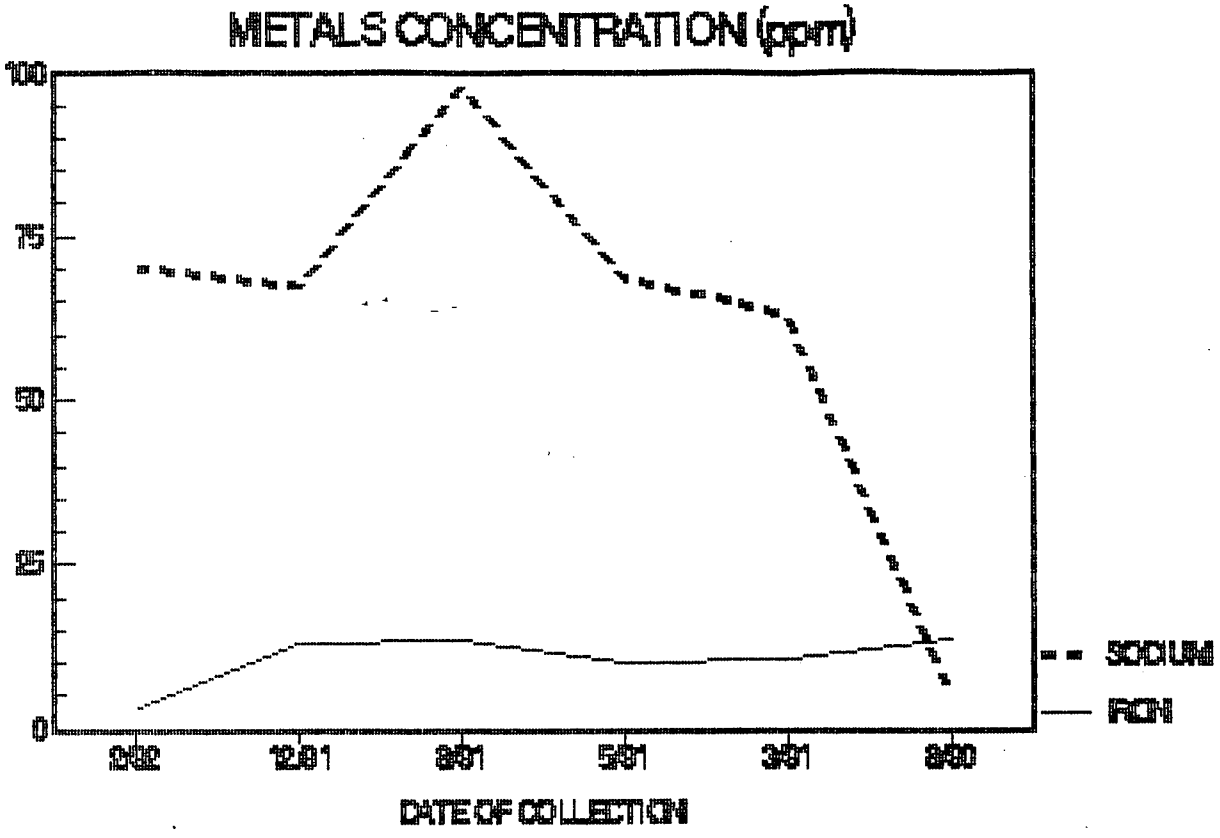


LENA ROAD LANDFILL WELL MW2

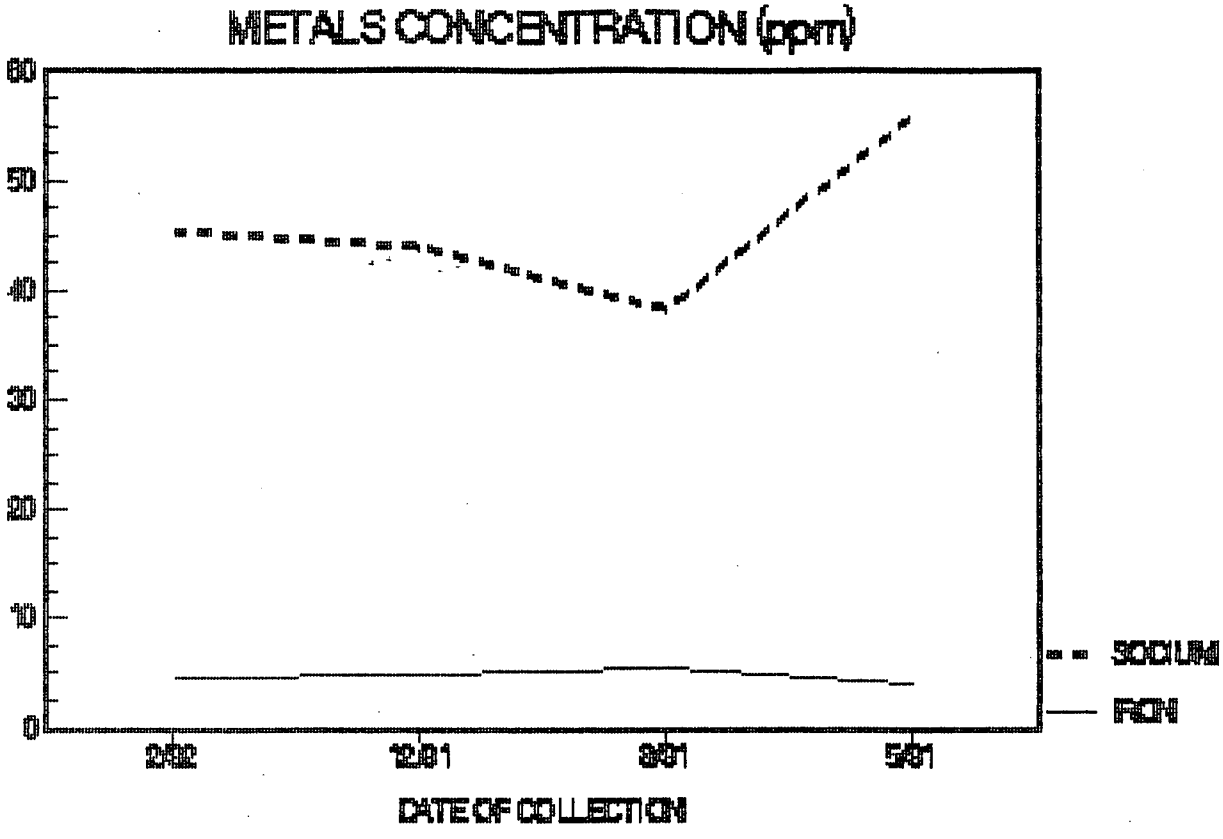
METALS CONCENTRATION (ppm)



LENA ROAD LANDFILL WELL MW3

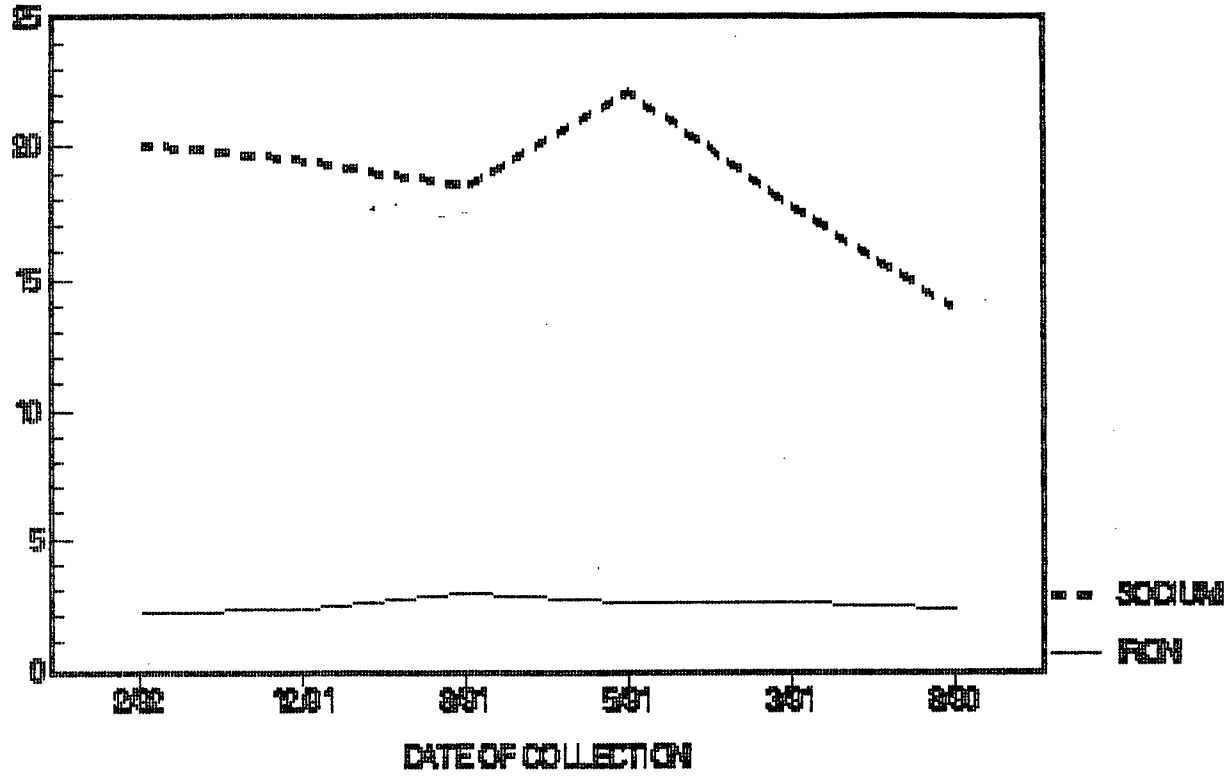


LENA ROAD LANDFILL WELL CW4



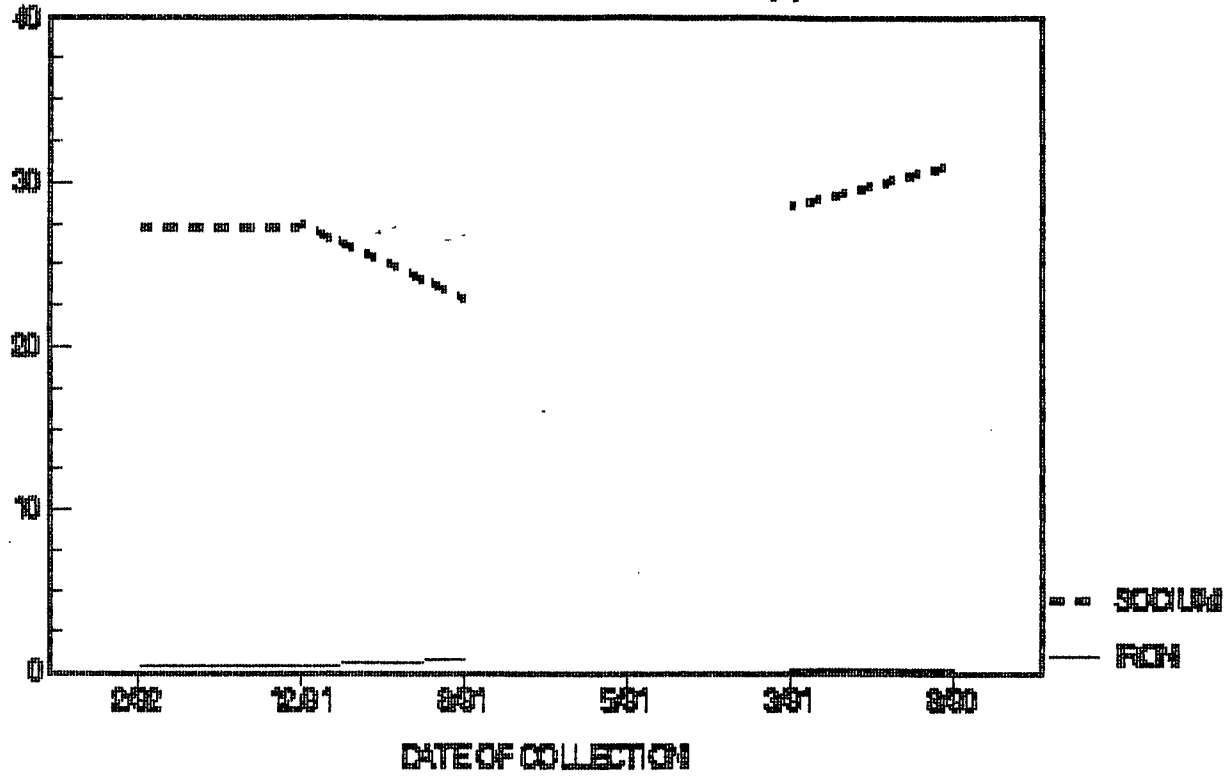
LENA ROAD LANDFILL WELL CW5

METALS CONCENTRATION (ppm)



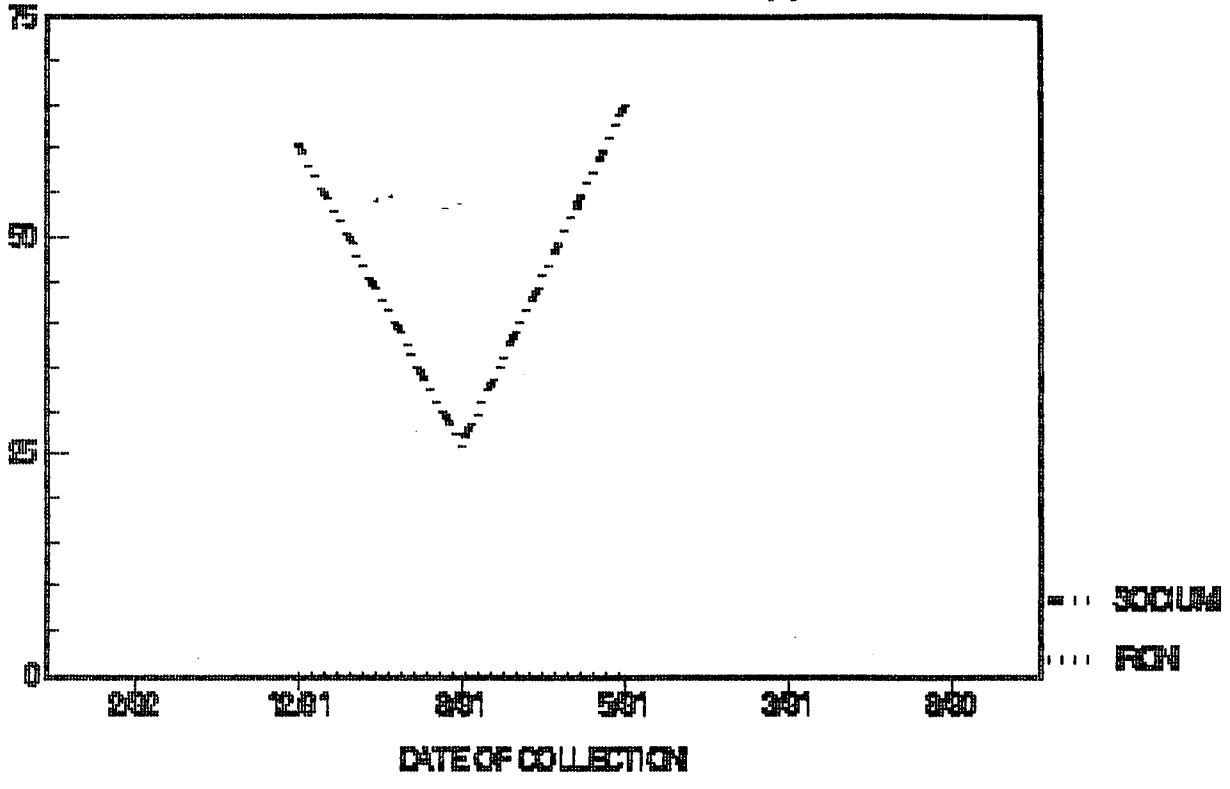
LENA ROAD LANDFILL WELL SA2

METALS CONCENTRATION (ppm)



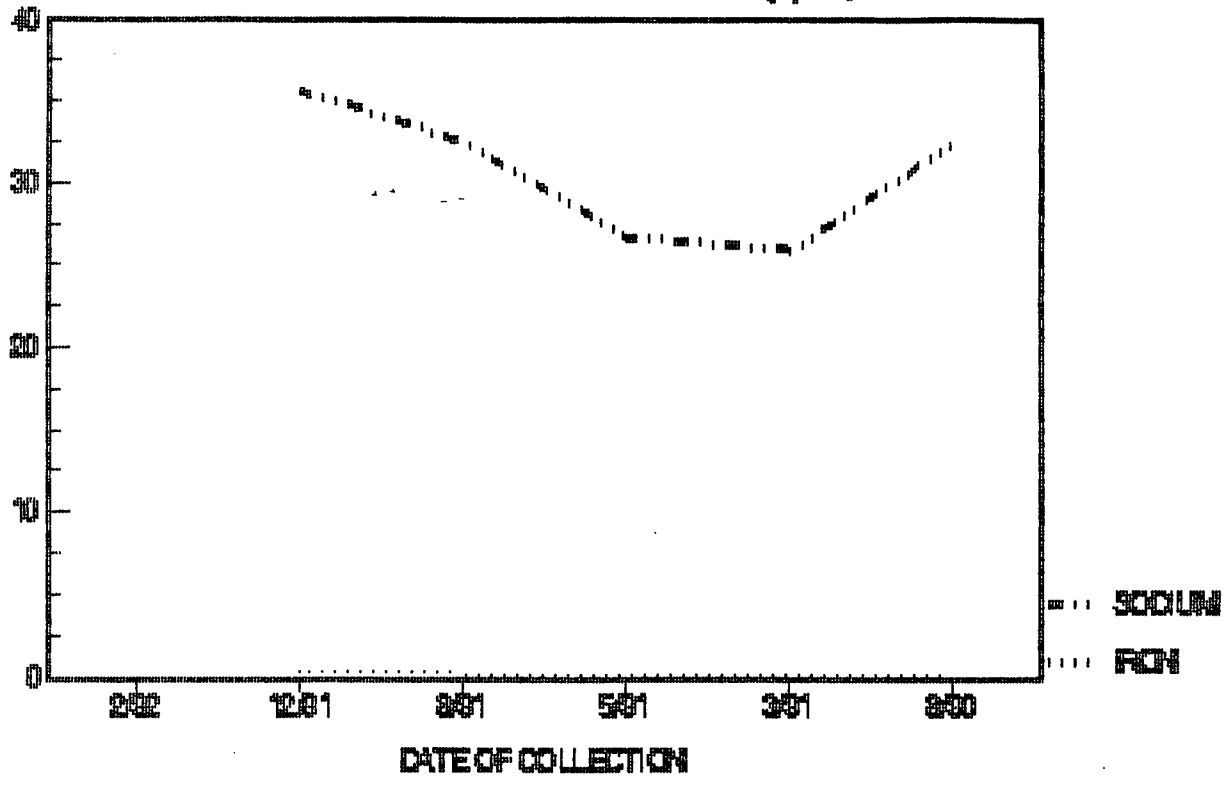
LENA ROAD LANDFILL WELL SA4

METALS CONCENTRATION (ppm)



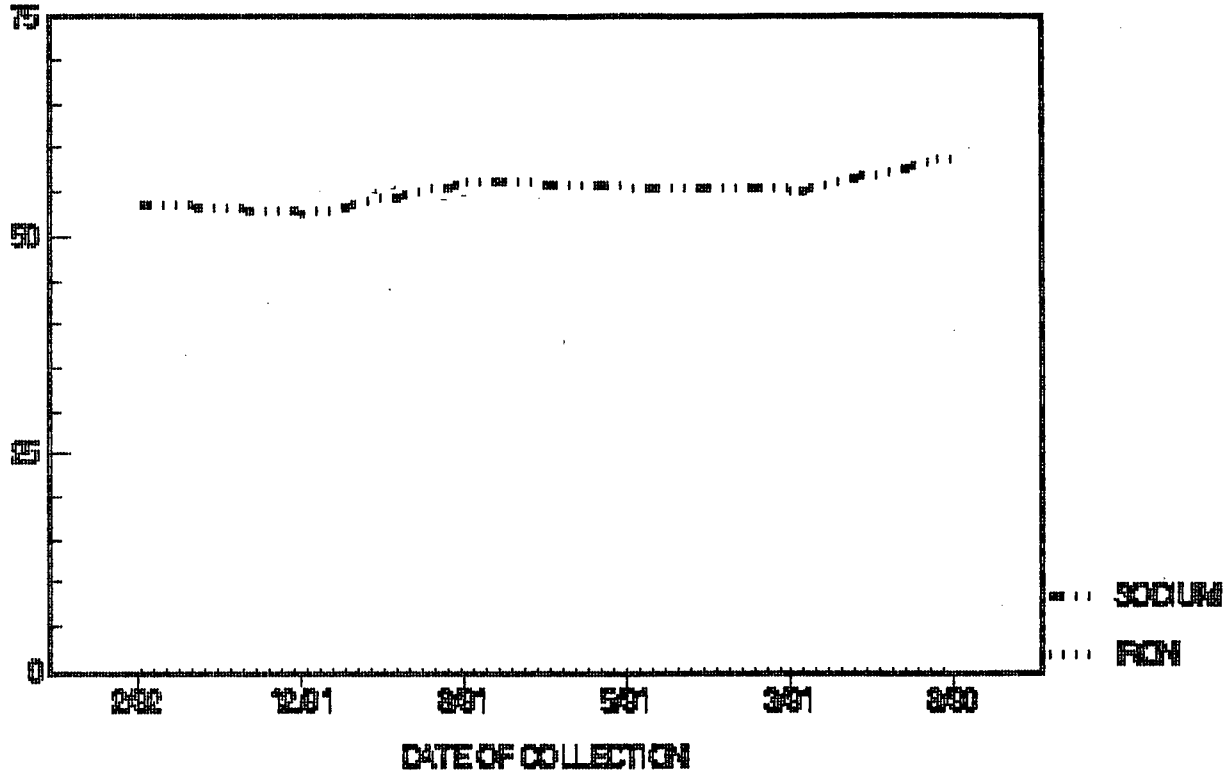
LENA ROAD LANDFILL WELL SA3

METALS CONCENTRATION (ppm)



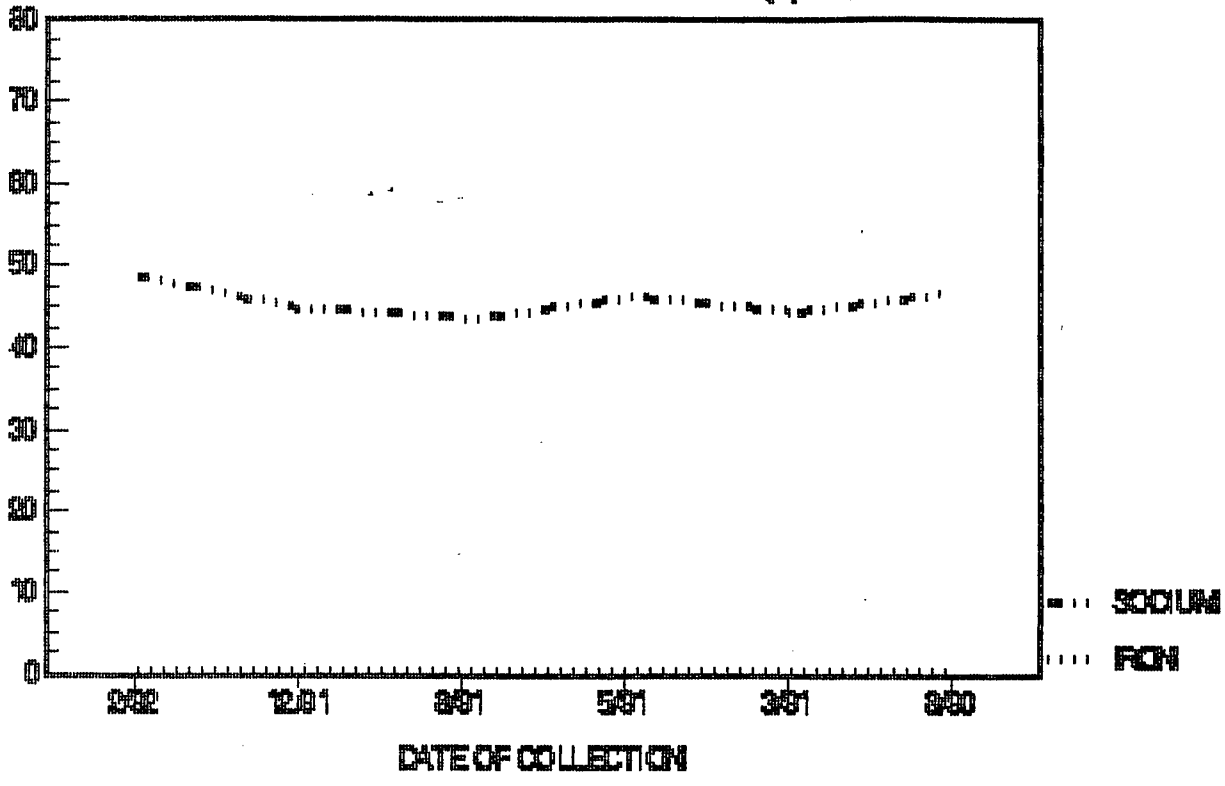
LENA ROAD LANDFILL WELL SA5

METALS CONCENTRATION (ppm)



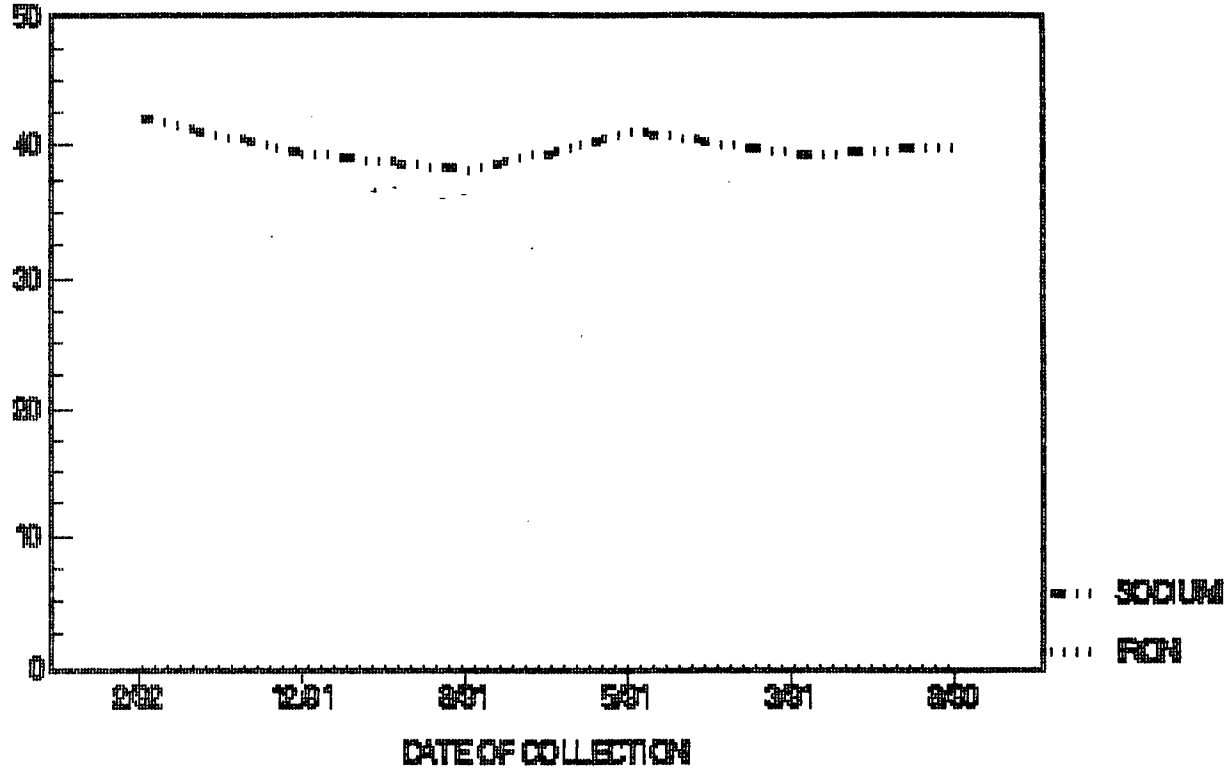
LENA ROAD LANDFILL WELL SA6

METALS CONCENTRATION (ppm)



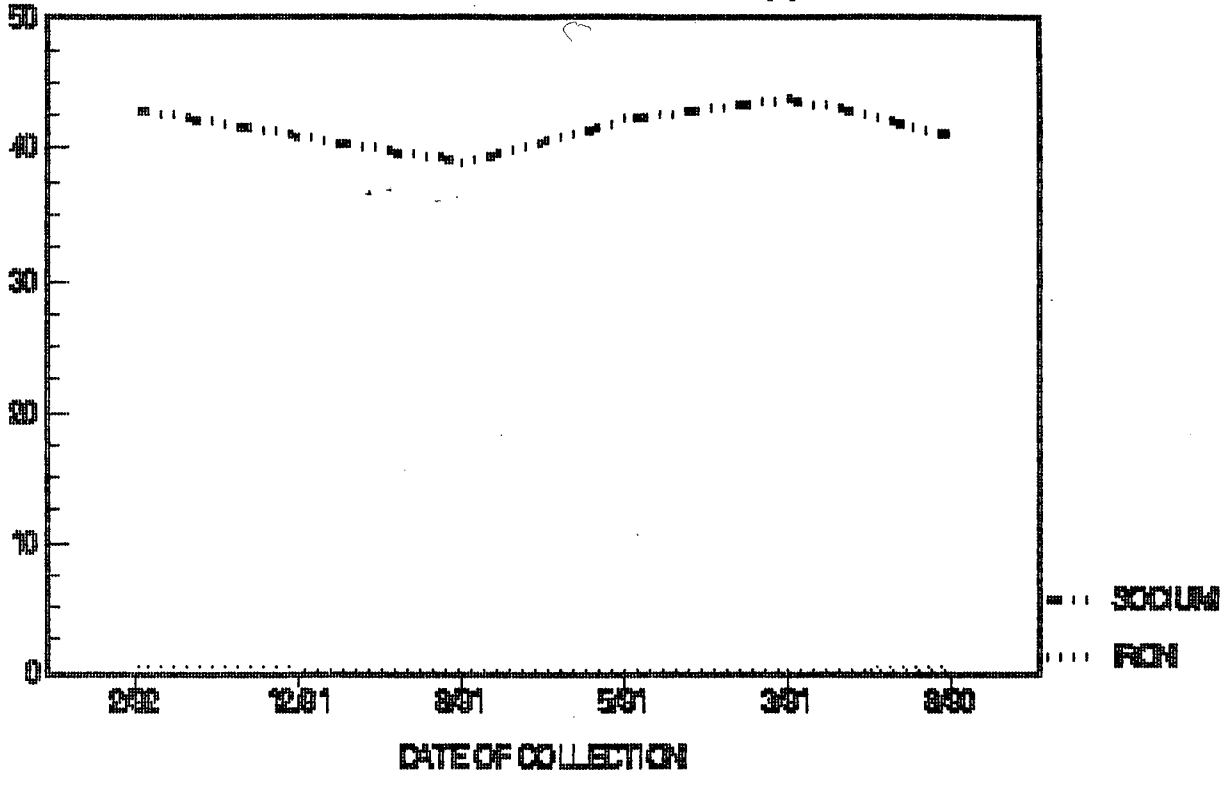
LENA ROAD LANDFILL WELL SA7

METALS CONCENTRATION (ppm)



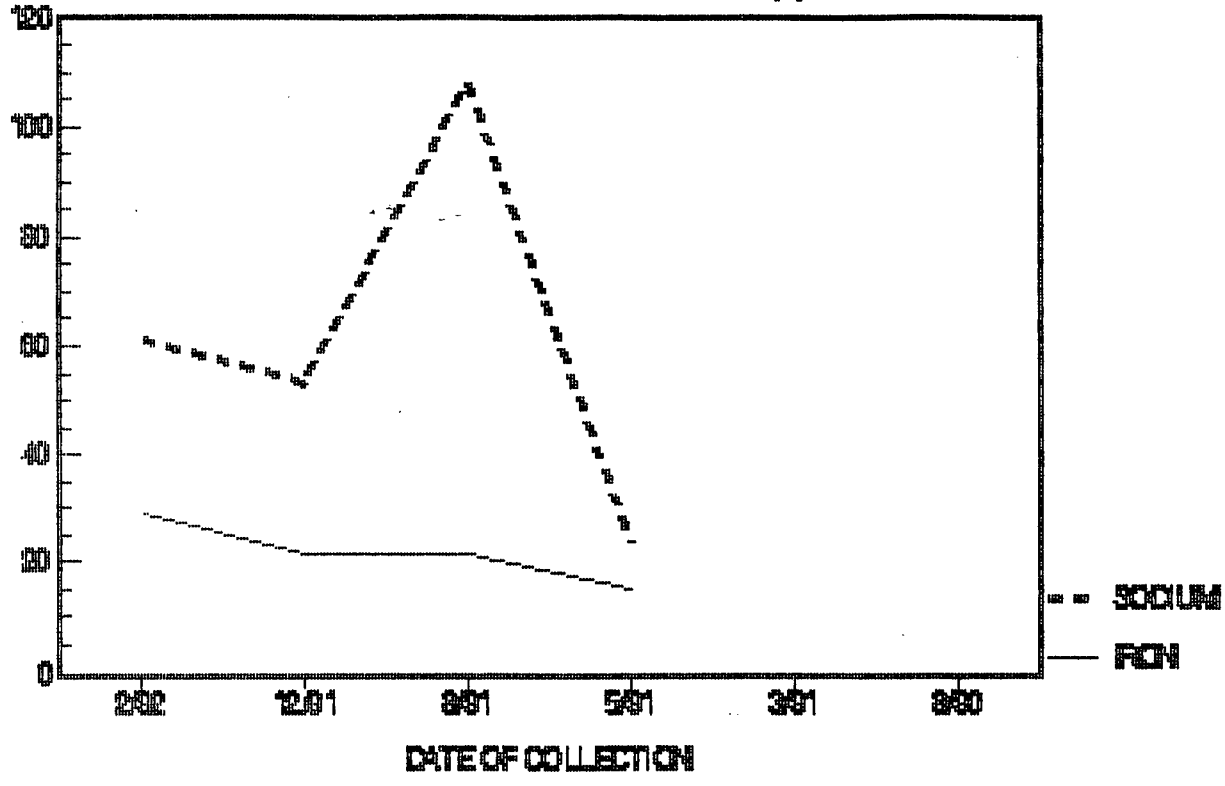
LENA ROAD LANDFILL WELL SA8

METALS CONCENTRATION (ppm)



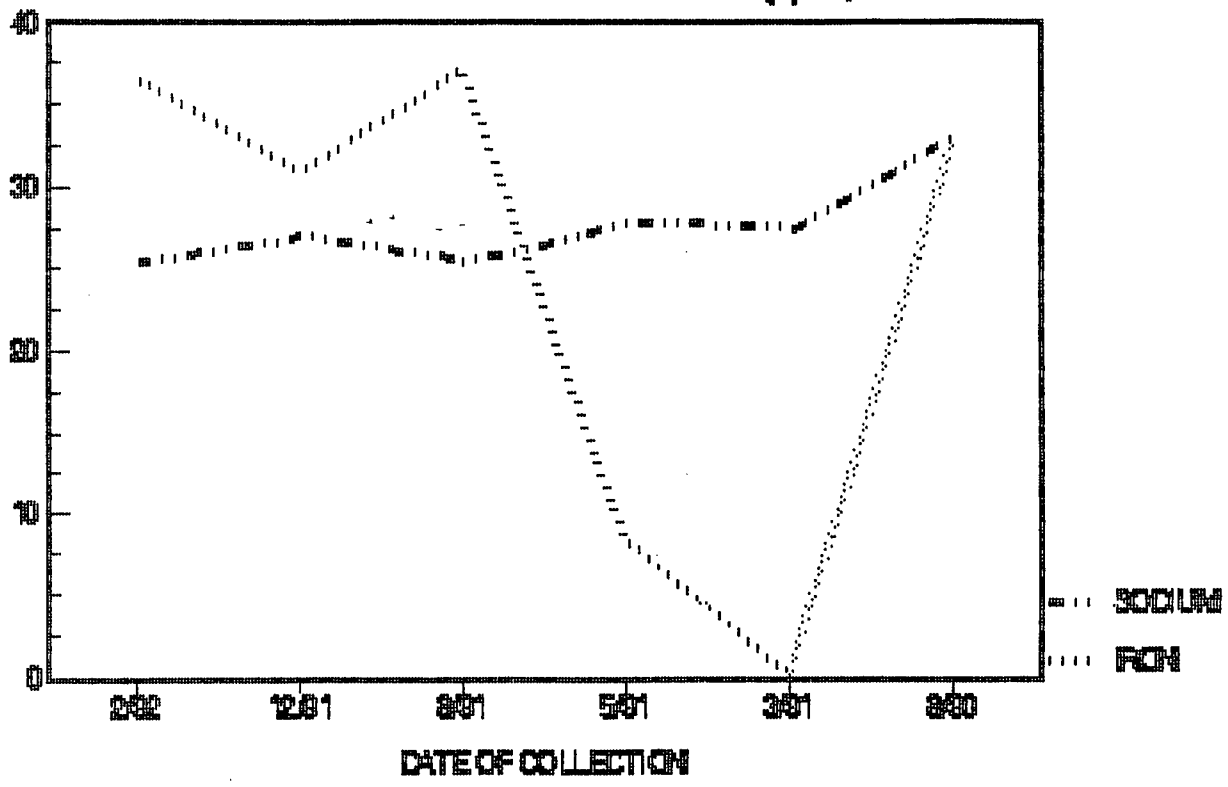
LENA ROAD LANDFILL WELL GC1

METALS CONCENTRATION (ppm)



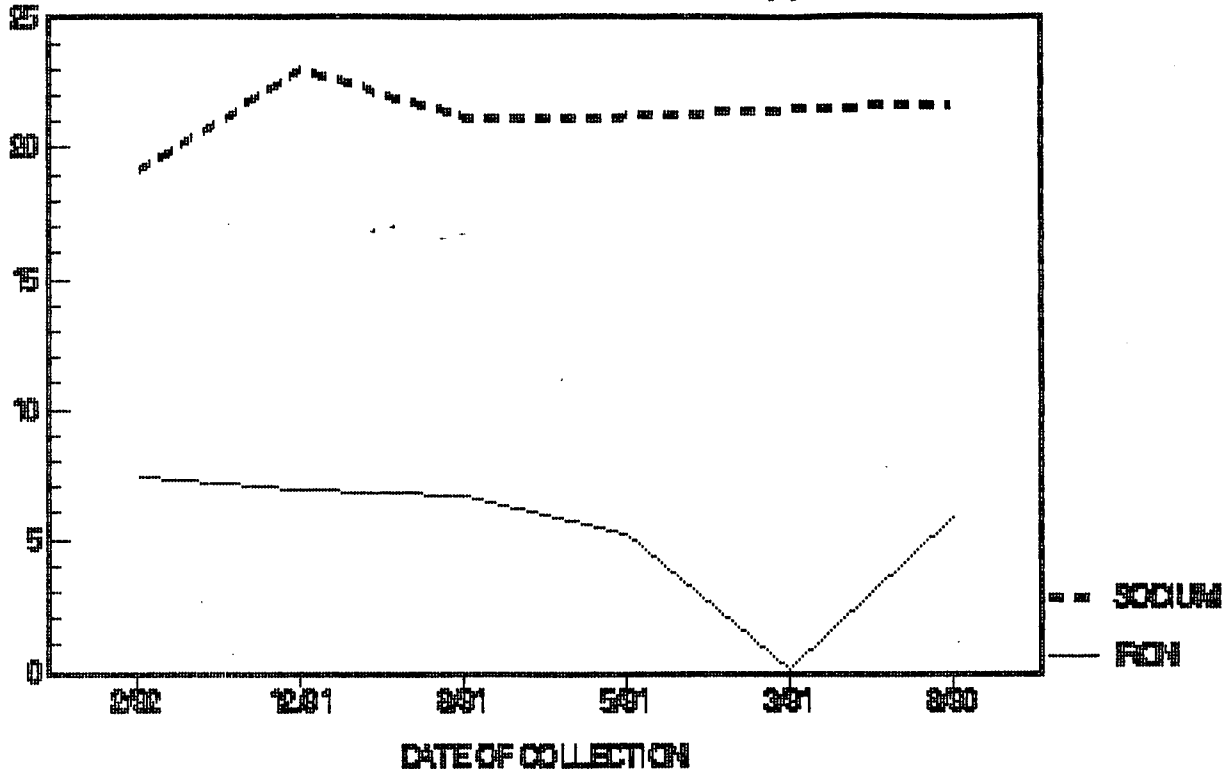
LENA ROAD LANDFILL WELL GC2

METALS CONCENTRATION (ppm)



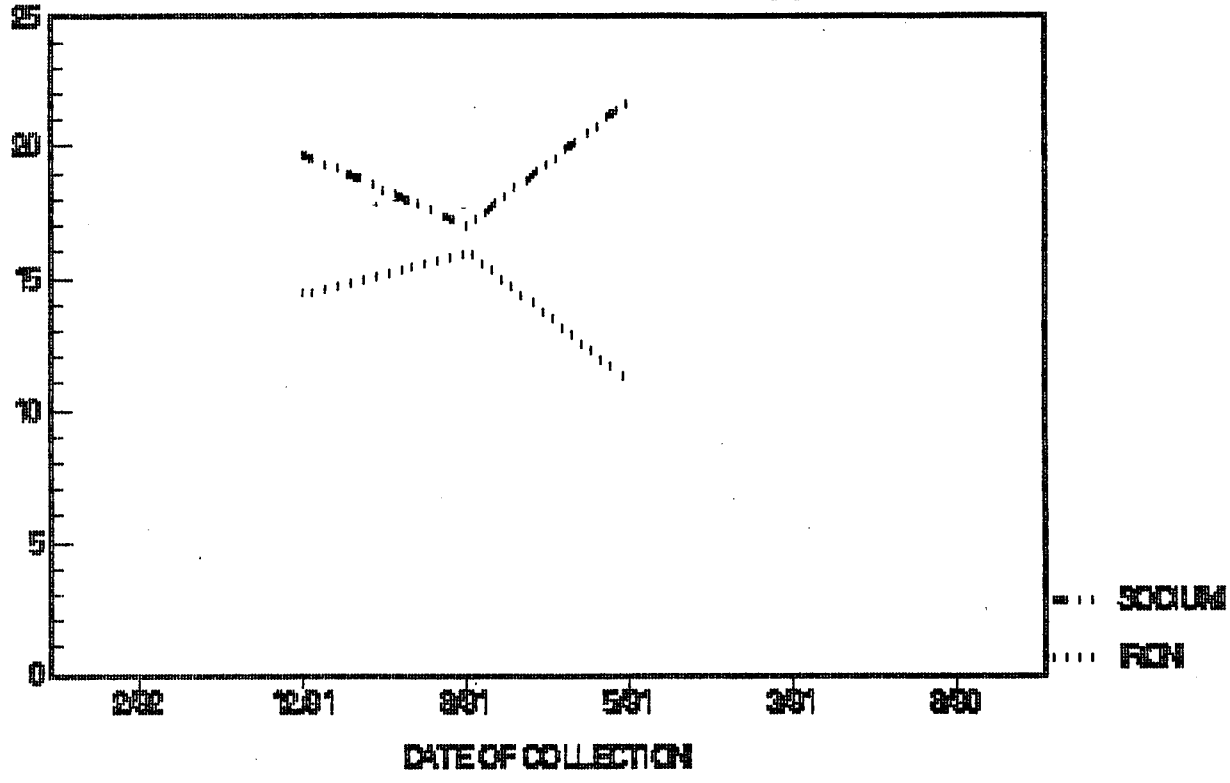
LENA ROAD LANDFILL WELL GC3

METALS CONCENTRATION (ppm)



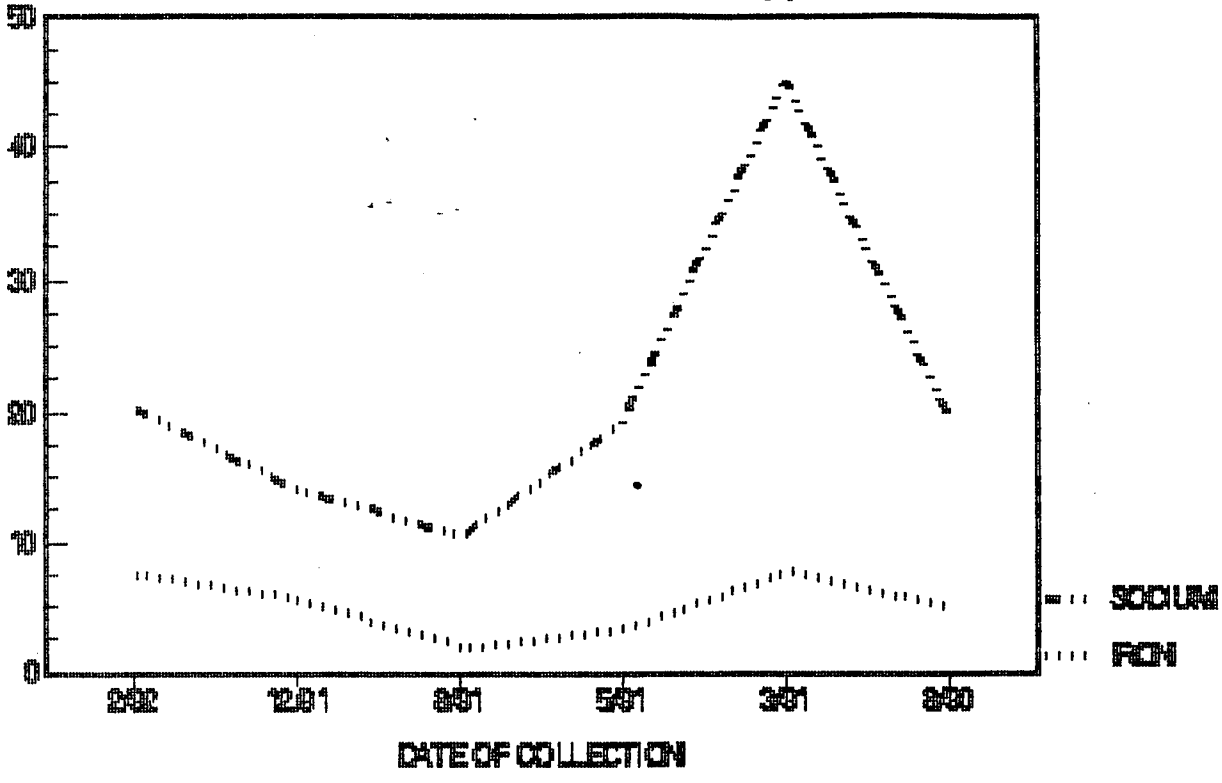
LENA ROAD LANDFILL WELL GC4

METALS CONCENTRATION (ppm)



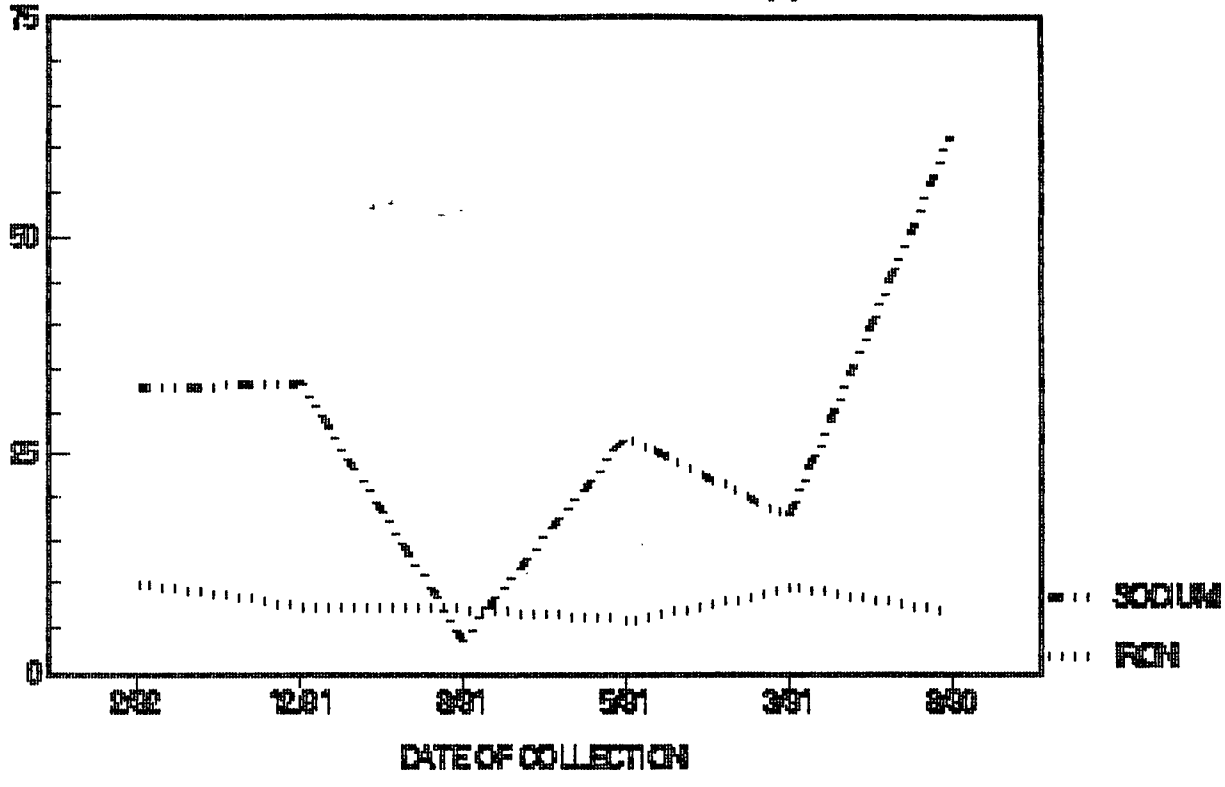
LENA ROAD LANDFILL WELL GC5

METALS CONCENTRATION (ppm)



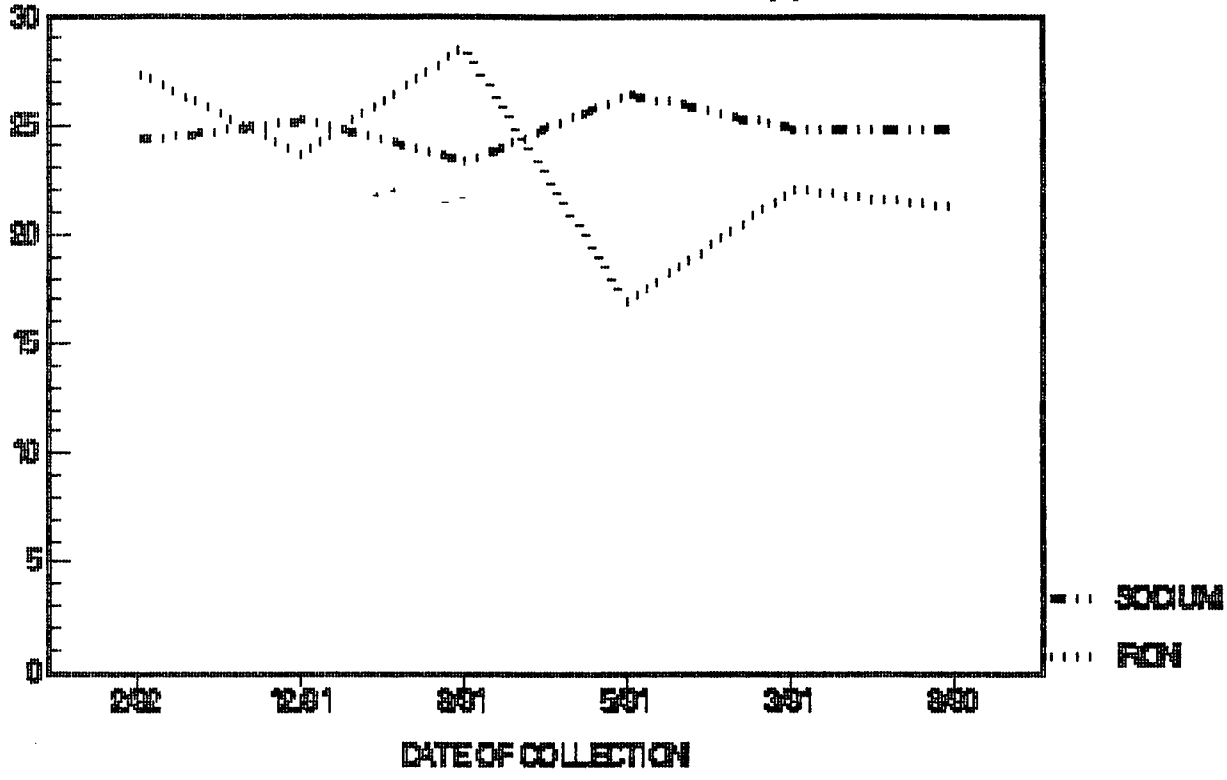
LENA ROAD LANDFILL WELL GC6

METALS CONCENTRATION (ppm)



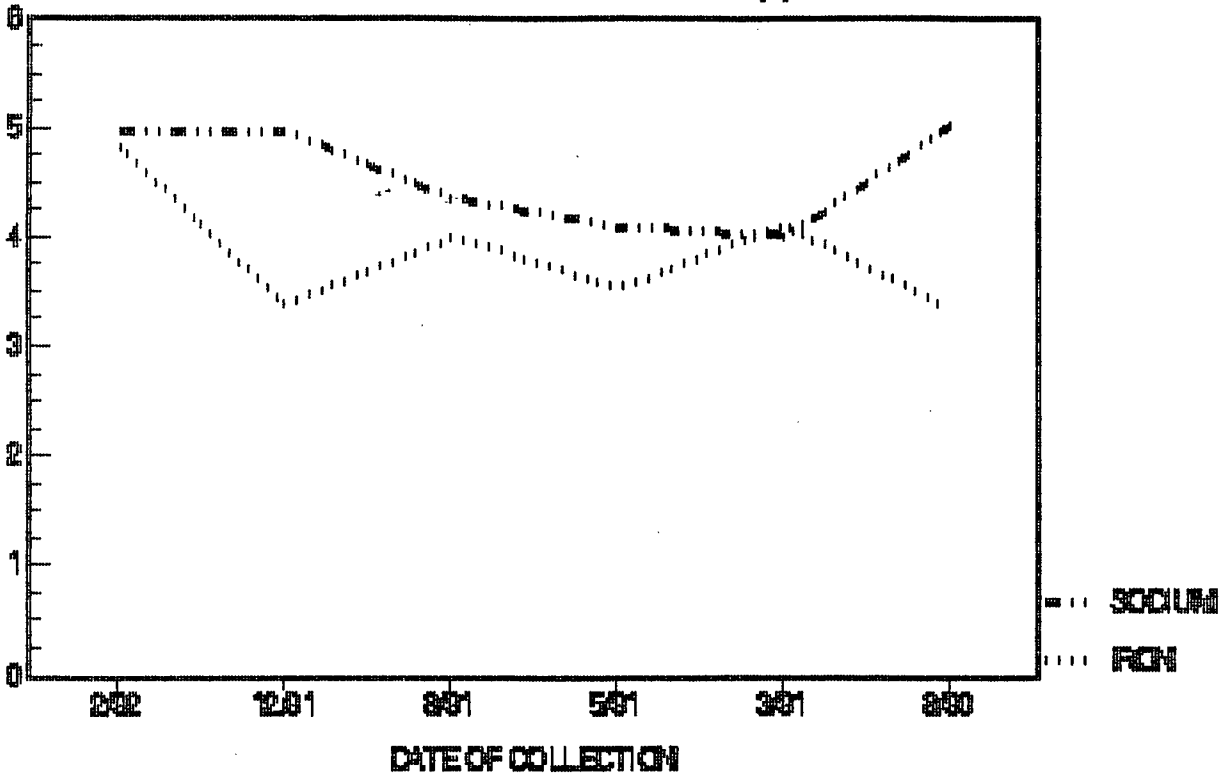
LENA ROAD LANDFILL WELL LRII-1

METALS CONCENTRATION (ppm)



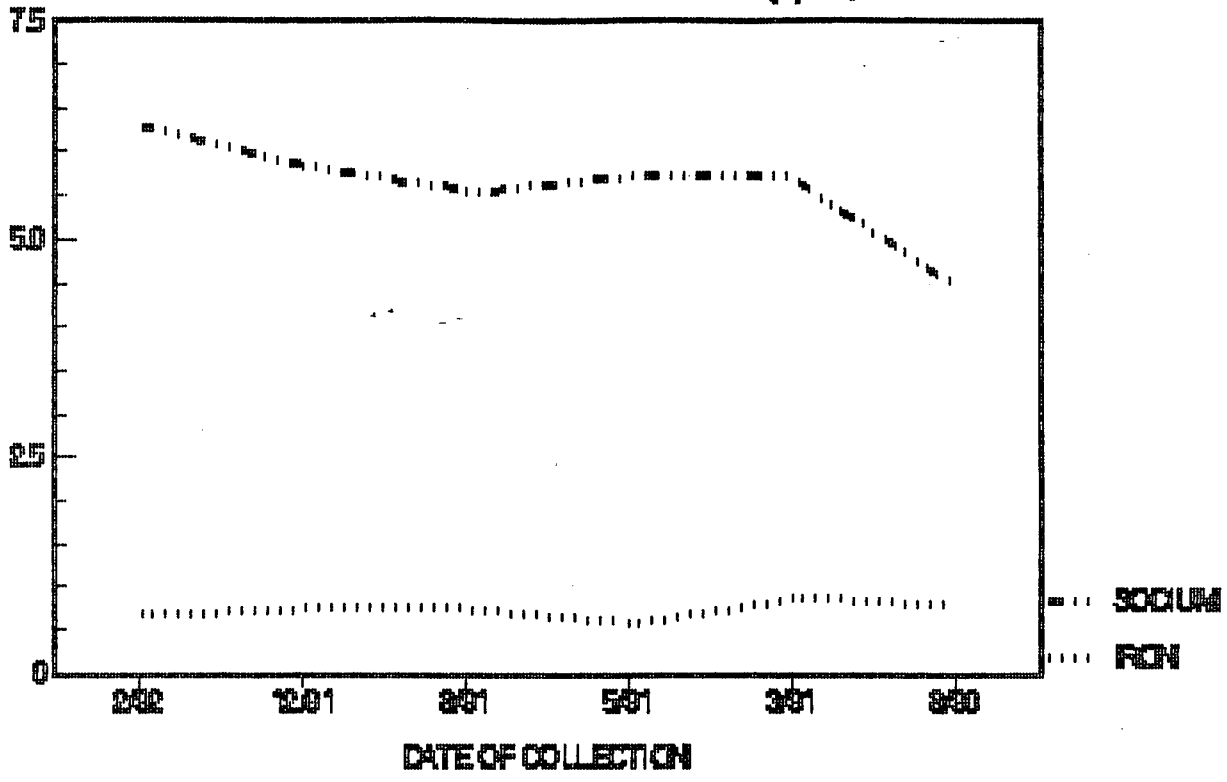
LENA ROAD LANDFILL WELL LRII-2

METALS CONCENTRATION (ppm)



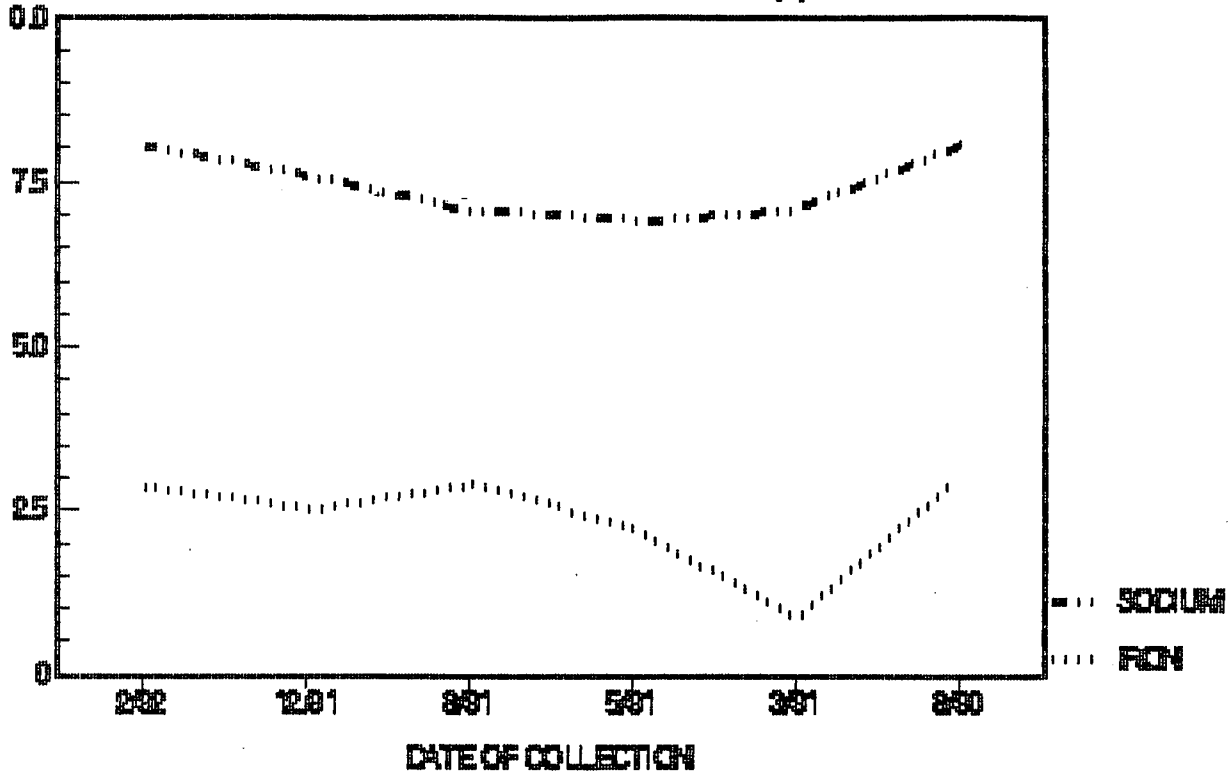
LENA ROAD LANDFILL WELL LRII-3

METALS CONCENTRATION (ppm)



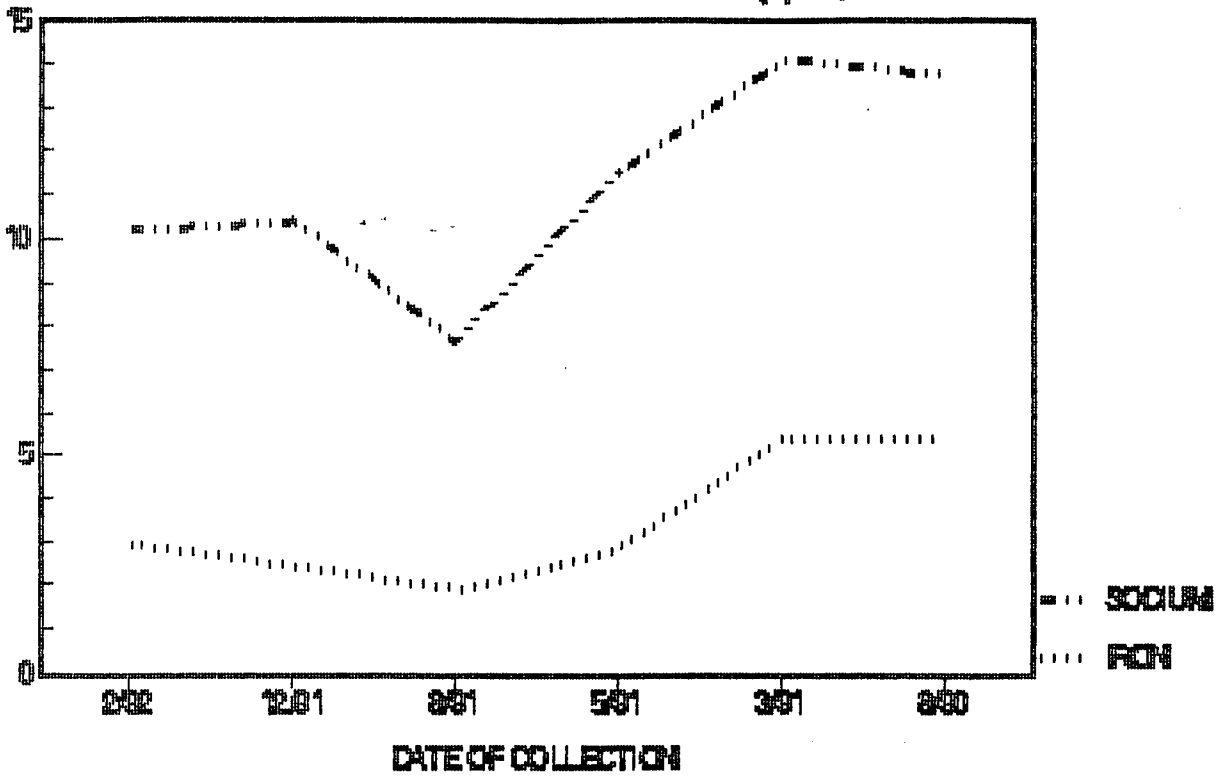
LENA ROAD LANDFILL WELL LRII-4

METALS CONCENTRATION (ppm)



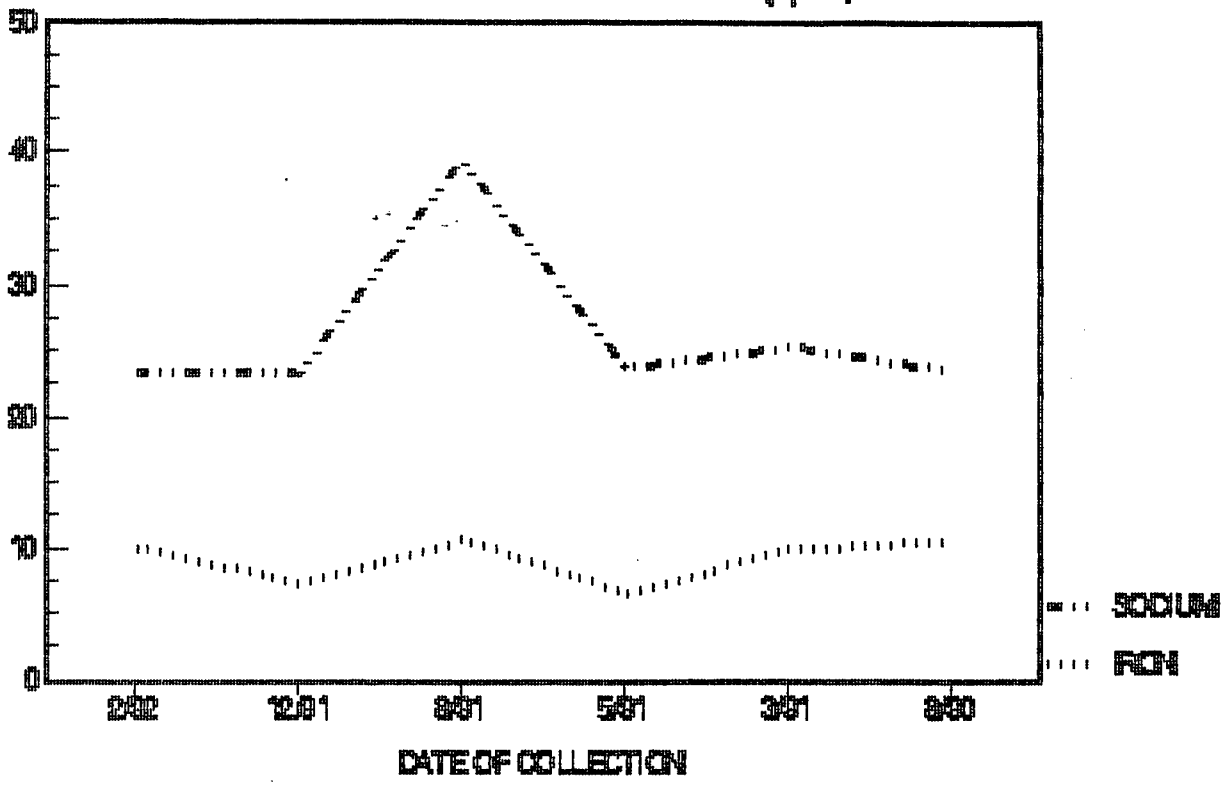
LENA ROAD LANDFILL WELL LRII-5

METALS CONCENTRATION (ppm)



LENA ROAD LANDFILL WELL SMR1

METALS CONCENTRATION (ppm)



LENA ROAD LANDFILL WELL SMR2

METALS CONCENTRATION (ppm)