April 1990

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MORGAN CITY WASH
FLOOD DELINEATION STUDY
FCD 89-15

Prepared for

Flood Control District
of
Maricopa County
D.E. Sagramoso,
Chief Engineer and General Manager

Registered Professional Engineer (Civil)
CERTIFICATE NO. 11597
TIMOTHY E. KELLY
Date signed 4/12/90
ARIZONA, U.S.A.

Submitted by

Baker Engineers 50 YEARS OF SERVICE

Michael Baker, Jr., Inc.
Phoenix, Arizona

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Flood Delineation Study

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TABLE OF CONTENTS

		PAGE
1.0	INTRODUCTION	1
	1.1 Purpose of the Study	1
	1.2 Authority and Acknowledgments	1
	1.3 Coordination	1
2.0	AREA STUDIED	2
	2.1 Scope of Study	2
	2.2 Study Area Description	2
	2.3 Principal Flood Problems	3
	2.4 Flood Protection Measures	4
3.0	ENGINEERING METHODS	6
	3.1 Hydrologic Analyses	6
	3.2 Hydraulic Analyses	7
	3.3 Procedure for Setting Encroachment Limits	8
4.0	FLOODPLAIN MANAGEMENT APPLICATIONS	9
	4.1 Floodplain Boundaries	9
	4.2 Floodways	10
	4.3 Considerations for Review of Encroachment Requests	11
5.0	INSURANCE APPLICATION	18
6.0	ELEVATION REFERENCE MARKS	18
7.0	OTHER STUDIES	22

TABLE OF CONTENTS (CONTINUED)

8.0 LOCATION OF DATA 22

9.0 BIBLIOGRAPHY AND REFERENCES 23

FIGURES

Figure 1 - Vicinity Map 5
Figure 2 - Floodway Schematic 11

TABLES

Table 1 - Summary of Discharges 6
Table 2 - Floodway Data 12
Table 3 - Elevation Reference Marks 19

EXHIBITS

Exhibit 1 - Hydrology Report Morgan City Wash Watershed ..... separate cover
Exhibit 2 - Flood Profiles, Morgan City Wash ..... attached
Exhibit 3 - Morgan City Wash Flood Delineation ..... accompanying maps
Exhibit 4 - Summary of Field Inspection Morgan City Wash ..... attached
Exhibit 5 - HEC-2 Computer Output for Morgan City Wash FLoodway Calculation, "MC-FLDWY" ..... separate cover

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
MORGAN CITY WASH FLOOD DELINEATION STUDY
AGUA FRIA RIVER TO YAVAPAI COUNTY BOUNDARY

1.0 INTRODUCTION

1.1 Purpose of Study

The purpose of this Flood Delineation is to investigate the existence and severity of flood hazards along Morgan City Wash from its confluence with the Agua Fria River to River Mile 12.02 (approximately the Maricopa/Yavapai County Line). The area studied lies entirely within the unincorporated area of Maricopa County, Arizona.

1.2 Authority and Acknowledgements

The Flood Control District of Maricopa County serves as the floodplain administration agency for the unincorporated areas of Maricopa County and performs necessary floodplain studies pursuant to the National Flood Insurance Program (NFIP). The hydraulic and hydrologic analyses for this study were performed by Michael Baker, Jr., Inc for the Flood Control District of Maricopa County under contract No. FCD-89-15. This work was completed in March 1989.

1.3 Coordination

The Flood Control District of Maricopa County provided technical direction throughout the study including the following data: copies of the effective Flood Boundary and Floodway Maps for the Agua Fria River to which Morgan City Wash is tributary, time distribution of precipitation for several storm durations, areal reduction of precipitation tables, and precipitation loss rates based on soil textures. In addition, values of Manning's roughness factor "n" for the hydraulic analysis were determined in a field review by personnel from the Flood Control District of Maricopa County and Michael Baker, Jr., Inc..

2.0 AREA STUDIED

2.1 Scope of Study

This flood delineation study covers approximately 12 miles of Morgan City Wash above its confluence with the Agua Fria River within the unincorporated area of Maricopa County, Arizona. The entire reach was studied for the 100-year flood using detailed methods. The study area is shown in the Vicinity Map (Figure 1).

2.2 Study Area Description

Maricopa County lies in the Sonoran Desert of south central Arizona. The terrain varies from desert valleys to mountainous terrain. The Morgan City Wash watershed is comprised of approximately 23.0 square miles of land in the Heiroglyphic Mountains within the unincorporated area of northern Maricopa County and southern Yavapai County. The Heiroglyphic Mountains are a complex series of low hills and ridges, generally between 1500 and 3500 feet in elevation. The watershed is very highly eroded rock outcrop. Because of steep slopes throughout the watershed, the drainage is comprised of an intricate pattern of deep washes and sharp divides. Direction of flow is generally east-southeast. The main stem of Morgan City Wash and its major tributaries are steep with one to five percent longitudinal slopes. These streams flow on gravel beds and have near-vertical banks in many reaches.

Vegetation is desert brush of light to moderate density. Stream channels contain moderate to very dense riparian vegetation in some reaches, although the well-defined gravel low-flow channel exists throughout almost all of Morgan City Wash.

The climate is typical of the high desert with mild winters and hot summers. Temperatures average 5 to 10 degrees lower than official readings for Phoenix. Annual precipitation is approximately 12 inches.

Like much of the "sun-belt", Maricopa County has experienced periods of rapid population growth within the last 20 years. Although much of this increase has been within urban areas, the influence has extended to outlying areas as acre - lot residential subdivisions or individual large acreage homesites. The Morgan City Wash watershed has not experienced development to date.

Human habitation is extremely sparse. Scattered mining efforts and ranching represent the only significant permanent activity. There are no residential subdivisions present, although some development may result from enlargement of Lake Pleasant and the associated recreational improvements.

The only drainage structures within the watershed are road crossings of the wash. The Lower Lake Pleasant Road crossing is a (4) 10' x 10' concrete box culvert. The Castle Hot Springs Road crossing is a (3) 13'x13' concrete box culvert.

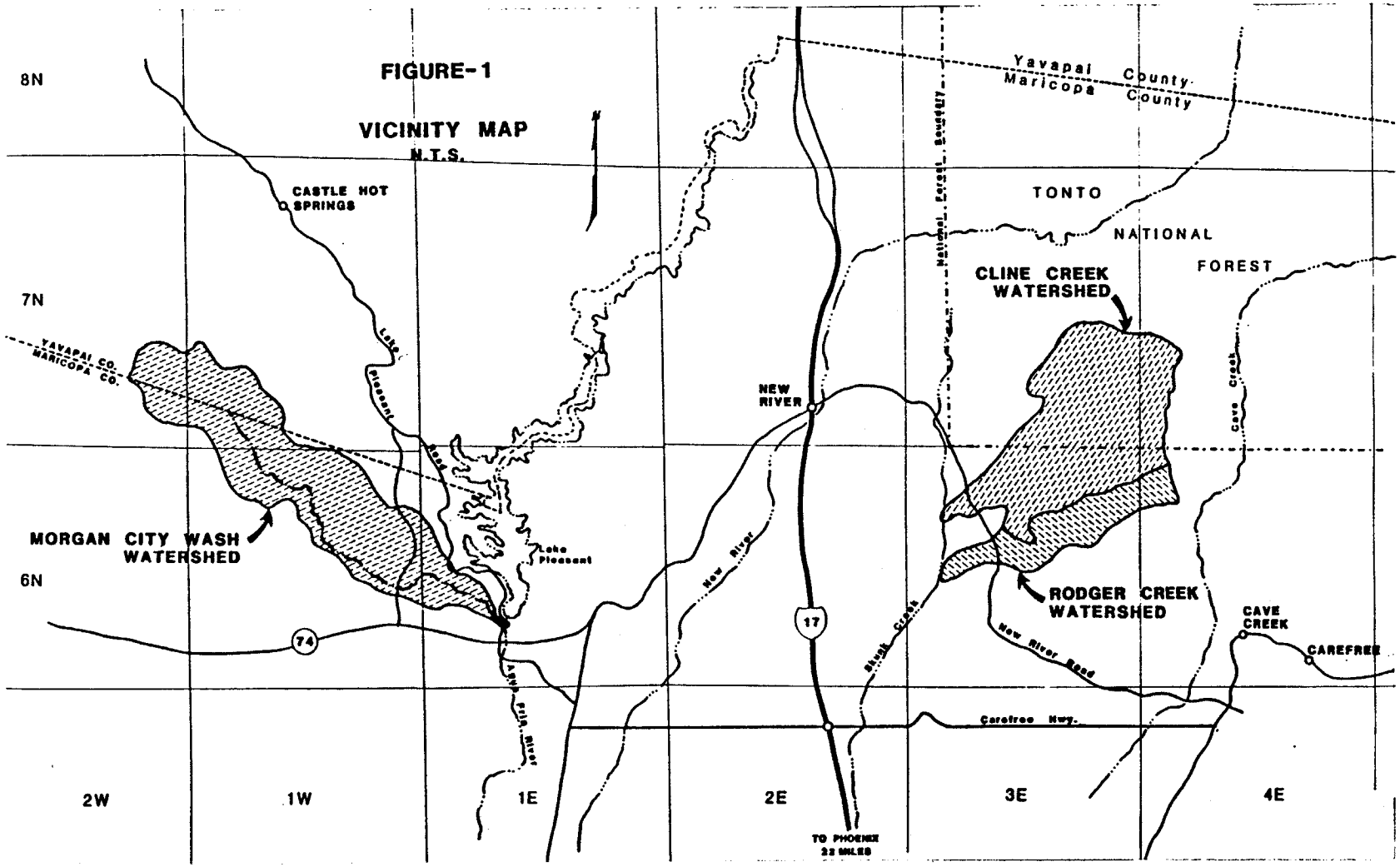
2.3 Principal Flood Problems

There are no existing flood problems of note on Morgan City Wash. In the future if the area develops, there will be a tendency to develop along the wash where the few level areas in the watershed exist. Also, the wash bed itself serves as the main access road to the upper half of the watershed. This study will provide a basis to regulate encroachments, but also to indicate usable areas near Morgan City Wash.

Because of the steep stream slope, Morgan City Wash has mixed flow regimes for a 100-year flood, alternating between subcritical and supercritical flow, with high velocities predominant throughout the reach. In addition, the alignment is characterized by abrupt changes in direction. The crooked alignment and high velocities represent a potential hazard to any fill encroachment into the floodplain.

2.4 Flood Protection Measures

No structural flood protection measures exist or are planned for Morgan City Wash. The adoption of this study by Maricopa County will provide a tool to manage future development encroachments into the 100-year floodway and to assure that approved encroachments into the flood fringe will be adequately protected from flood damage.



Baker Engineers

Michael Baker, Jr., Inc.

3.0 ENGINEERING METHODS

3.1 Hydrologic Analysis

Hydrologic analysis of the Morgan City Wash Watershed was performed using a computerized watershed model to establish 100-year peak flow rates for Morgan City Wash. The U.S. Army Corps of Engineers (COE) HEC-1 computer program (Reference 1) was the basis of model. The development of the model and results are contained in Exhibit-1 Hydrology Report, Morgan City Wash Floodplain Delineation Study, FCD 89-15, dated December 1989. The hydrologic analysis was reviewed and approved for use in the hydraulic analysis report by the Flood Control District of Maricopa County.

Peak 100-year flood flows are shown in Table 1.

TABLE 1
Summary of Discharges
Morgan City Wash

Flooding Source and Location Morgan City Wash:			Discharge (cfs)
Agua Fria River	to	TributaryM12 Confluence	14,400
TributaryM12 Confluence	to	TributaryM10 Confluence	14,200
TributaryM10 Confluence	to	TributaryM8 Confluence	13,900
TributaryM8 Confluence	to	TributaryM7 Confluence	12,300
TributaryM7 Confluence	to	TributaryM4 Confluence	12,000
TributaryM4 Confluence	to	TributaryM3 Confluence	8,130
TributaryM3 Confluence	to	TributaryM1 Confluence	4,820

3.2 Hydraulic Analysis

Standard hydraulic methods were used to determine 100-year flood elevations and hazard zones for Morgan City Wash from the Agua Fria River to the Yavapai County boundary (River Mile 12.02).

Cross-sections for water-surface profiles were digitized stereoscopically from aerial photographs obtained as a part of this study (Reference 2). Topographic mapping at 1" = 200' scale and with 4' contour intervals was also produced for this study. The geometries of the Lake Pleasant Road and Castle Hot Springs Road culverts were obtained by field survey.

Locations of selected cross-sections used in the hydraulic analysis are shown in the flood profiles (Exhibit 2). Cross-section locations are also shown on the Morgan City Wash Flood Delineation Study Maps (Exhibit 3).

Water-surface elevations for the 100-year flood were computed through use of the COE HEC-2 step water-surface profile computer program (Reference 3). The starting water-surface elevation for Morgan City Wash at the confluence with the Agua Fria River was interpolated from base flood elevations shown on the the Agua Fria River Maps for the Maricopa County FIS (Reference 4). The HEC-2 printout of the floodway calculation, input file name MC-FLDWY, is contained in Exhibit 5.

Channel and overbank roughness factors (Manning's "n") used in the hydraulic computations were chosen by engineering judgment and were based on field observations of channel and overbank areas by personnel of the Flood Control District of Maricopa County and Michael Baker, Jr., Inc. Photographs of typical conditions and corresponding "n" values are shown in the Summary of Field Review (Exhibit 4). The channel "n" values for Morgan City Wash ranged from 0.035 to 0.100, and overbank "n" values ranged from 0.055 to 0.100. Values of contraction

and expansion coefficient were estimated at 0.4 and 0.8 respectively by engineering judgment. These relatively high values of coefficients of contraction and expansion reflect the rapid changes in cross-section shape along Morgan City Wash.

3.3 Procedure For Setting Encroachment Limits

A natural (existing conditions) HEC-2 water surface profile was calculated. Using the cross-section output data from the natural profile, Type 4 encroachments were selected for each cross-section using a target increase in water surface elevation between 0.1' and 1.0' for each cross-section. Channel velocity and top width were considered in selecting each target. The target selected was smaller for cross-sections with a high channel velocity or which had a narrow water surface top width compared to other cross-sections in the reach. A two profile HEC-2 run was made using the Type 4 encroachments as a first approximation of the floodway. The Type 4 results were reviewed to determine where encroachments should be adjusted to eliminate large increases in channel velocity or where encroachments would cause a "pinched" section of the floodway. The Type 4 encroachments were adjusted to produce a Type 4 floodway run with reasonable results. Because of high velocities throughout much of Morgan City Wash, encroachments at number of cross-sections in the Type 4 run were eliminated during the adjustment runs. Type 4 encroachments were checked using a plot of each cross-section and the HEC-2 velocity distribution to determine if excessive fill depths or velocities would occur. Generally, local velocities over 6 feet per second or fills of 8 feet below water surface were eliminated. Bank slopes were also reviewed to determine where untenable fill slopes would result.

The floodplain and encroachments were plotted on the topographic plan sheets. This plot was used to establish a smooth floodway boundary while converting the HEC-2 model to Type 1 encroachments. Decisions were made where to eliminate

"pocket" encroachments which were isolated by side canyons or encroachments in an incised canyon with very steep walls.

The "final" Type 1 two profile HEC-2 run became the "Floodway Run".

4.0 FLOODPLAIN MANAGEMENT APPLICATIONS

The NFIP encourages State and local governments to adopt sound floodplain management programs. The Flood Control District of Maricopa County has required in the Scope of Work that this study meet the requirements of NFIP guidelines (Reference 5), and the study has been performed to meet these guidelines. To provide for management of the Morgan City Wash floodplain, this study has provided mapping of the 100-year floodplain and floodway boundaries (Exhibit 3).

4.1 Floodplain Boundaries

To provide a national standard without regional discrimination, the Federal Emergency Management Agency (FEMA) has adopted the 1 percent annual chance (100-year) flood as the base flood for floodplain management purposes. The 100-year floodplain boundaries for Morgan City Wash have been delineated by detailed methods using the flood elevations determined at each cross-section. Between cross-sections, the boundaries were interpolated using topographic maps at a scale of 1:2400, with a contour interval of 4 feet (Reference 2).

The 100-year floodplain boundaries are shown on the Morgan City Wash Flood Delineation Study Maps (Exhibit 3). On this map, the 100-year floodplain boundary corresponds to the boundary of the areas of special flood hazard (Zone AE). Small areas within the floodplain boundaries may lie above the flood elevations but cannot be shown due to limitations of the map scale and/or lack of detailed topographic data.

4.2 Floodways

Encroachment on floodplains, such as structures and fill, reduces flood-carrying capacity, increases flood heights and velocities, and increases flood hazards in areas beyond the encroachment itself. One aspect of floodplain management involves balancing the economic gain from floodplain development against the resulting increase in flood hazard. For purposes of the NFIP, a floodway is used as a tool to assist local communities in this aspect of floodplain management. Under this concept, the area of the 100-year floodplain is divided into a floodway and a floodway fringe. The floodway is the channel of a stream, plus any adjacent floodplain areas, that must be kept free of encroachment so that the 100-year flood can be carried without substantial increases in flood heights. Minimum Federal standards limit such increases to 1.0 foot, provided that hazardous velocities are not produced.

Floodway widths for this study were computed at cross-sections. Between cross-sections, the floodway boundaries were interpolated. The results of the floodway computations have been tabulated for selected cross-sections (Table 2). In cases where the floodway and 100-year floodplain boundaries are either close together or collinear, only the floodway boundary has been shown.

The area between the floodway and 100-year floodplain boundaries is termed the floodway fringe. The floodway fringe encompasses the portion of the floodplain that could be completely obstructed without increasing the water-surface elevation of the 100-year flood more than 1.0 foot at any point. Typical relationships between the floodway and the floodway fringe and their significance to floodplain development are shown in Figure 3.

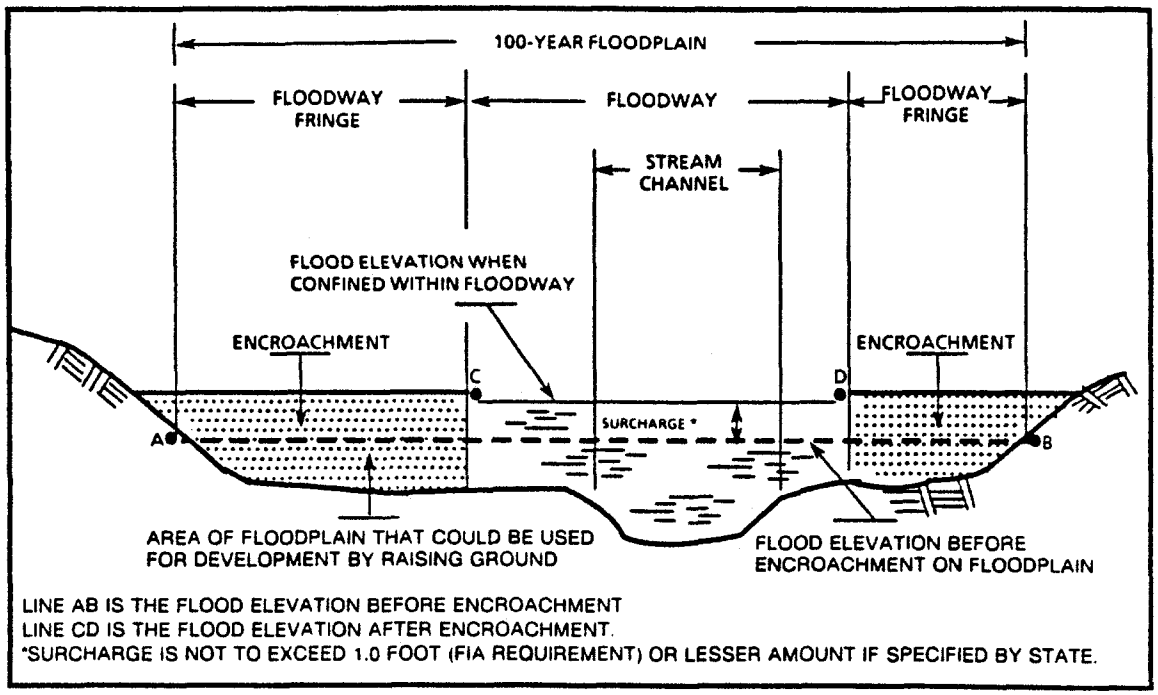


Figure 2. Floodway Schematic
(After FEMA, Reference 5)

4.3 Considerations for Review of Encroachment Requests

Any future encroachment into Morgan City Wash flood fringe should be carefully analyzed. It is recommended that analysis for supercritical flow be required in addition to subcritical flow analysis for any encroachment where the hydraulic analysis for this study shows an "assumed critical" message in the output. Cross-sections should be spaced at 100 feet or less for accurate analysis. It is further recommended that calculations for design of bank protection be required and specific attention be directed to protection where impinging flows would occur.

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
A	.141	244.	3045.	4.7	1420.1	1420.1	0.0
B	.161	293.	2638.	5.5	1421.4	1421.4	0.0
C	.177	281.	3052.	4.7	1426.5	1426.5	0.0
D	.187	229.	3328.	4.3	1426.6	1426.6	0.0
E	.278	114.	1350.	10.7	1427.5	1427.5	0.0
F	.375	115.	991.	14.5	1440.0	1440.0	0.0
G	.460	306.	3260.	4.4	1448.2	1448.2	0.0
H	.548	186.	1373.	10.5	1451.7	1451.7	0.0
J	.643	192.	1874.	7.7	1462.1	1462.1	0.0
K	.711	238.	1891.	7.6	1466.6	1466.6	0.0
L	.806	175.	1672.	8.6	1473.3	1473.3	0.0
M	.950	285.	1559.	9.2	1479.0	1479.0	0.0
N	1.010	221.	1111.	13.0	1483.4	1483.4	0.0
P	1.110	129.	994.	14.5	1491.8	1491.8	0.0
R	1.210	104.	958.	15.0	1498.2	1498.2	0.0
S	1.300	137.	1232.	11.7	1505.3	1505.3	0.0
T	1.384	208.	1808.	8.0	1511.5	1511.5	0.0
U	1.477	113.	1027.	14.0	1515.6	1515.6	0.0
V	1.574	154.	1221.	11.8	1522.0	1522.0	0.0
W	1.658	147.	1062.	13.6	1525.7	1525.7	0.0
X	1.750	208.	1392.	10.3	1532.7	1532.7	0.0
Y	1.831	123.	1013.	14.2	1542.0	1542.0	0.0
Z	1.926	110.	996.	14.5	1551.3	1551.3	0.0
AA	2.014	105.	1029.	14.0	1557.3	1557.3	0.0
AB	2.114	146.	1340.	10.7	1564.1	1564.1	0.0

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
AC	2.209	147.	1082.	13.3	1567.9	1567.9	0.0
AD	2.287	152.	1165.	12.4	1573.1	1573.1	0.0
AE	2.391	243.	1353.	10.6	1579.3	1579.3	0.0
AF	2.476	161.	1164.	12.4	1586.9	1586.9	0.0
AG	2.577	109.	915.	15.7	1593.5	1593.4	0.1
AH	2.679	245.	1831.	7.9	1602.8	1602.8	0.0
AJ	2.764	157.	1056.	13.4	1607.7	1607.7	0.0
AK	2.882	185.	1164.	12.2	1618.0	1618.0	0.0
AL	2.963	156.	1047.	13.6	1624.8	1624.8	0.0
AM	3.058	155.	1167.	12.2	1631.2	1631.2	0.0
AN	3.127	190.	1188.	12.0	1637.7	1637.7	0.0
AP	3.219	253.	1828.	7.8	1644.0	1644.0	0.0
AR	3.303	262.	1389.	10.2	1647.7	1647.7	0.0
AS	3.400	168.	1097.	12.9	1657.2	1657.2	0.0
AT	3.473	185.	1692.	8.4	1662.4	1662.2	0.2
AU	3.492	129.	1001.	14.2	1670.5	1670.4	0.1
AV	3.520	370.	7625.	1.9	1686.4	1686.4	0.0
AW	3.537	275.	5075.	2.8	1686.4	1686.4	0.0
AX	3.569	305.	6296.	2.3	1686.6	1686.6	0.0
AY	3.673	734.	10350.	1.3	1686.7	1686.7	0.0
AZ	3.764	535.	3428.	4.1	1686.8	1686.8	0.0
BA	3.862	368.	1452.	9.6	1691.1	1691.1	0.0
BB	3.946	388.	1828.	7.6	1699.5	1699.4	0.1
BC	4.049	351.	1431.	9.7	1707.1	1707.1	0.0
BD	4.149	260.	1437.	9.7	1715.8	1715.8	0.0

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
BE	4.254	328.	1407.	9.9	1723.3	1723.3	0.0
BF	4.344	251.	1339.	10.4	1730.1	1730.0	0.1
BG	4.437	185.	1146.	12.1	1737.8	1737.8	0.0
BH	4.540	239.	1251.	11.1	1748.1	1748.1	0.0
BJ	4.634	289.	1233.	11.3	1754.6	1754.6	0.0
BK	4.727	181.	1141.	12.2	1763.6	1763.6	0.0
BL	4.825	230.	1286.	10.8	1772.3	1772.3	0.0
BM	4.918	204.	1269.	11.0	1780.0	1780.0	0.0
BN	5.044	261.	1440.	9.7	1788.3	1788.3	0.0
BP	5.156	210.	1199.	11.6	1797.7	1797.7	0.0
BR	5.250	228.	1384.	10.0	1806.0	1806.0	0.0
BS	5.334	126.	1015.	13.7	1814.2	1814.2	0.0
BT	5.434	146.	1065.	13.1	1822.2	1822.2	0.0
BU	5.529	152.	1139.	12.2	1829.7	1829.7	0.0
BV	5.625	256.	1528.	9.1	1837.3	1837.3	0.0
BW	5.726	295.	1490.	9.3	1843.4	1843.4	0.0
BX	5.808	155.	1146.	12.1	1852.3	1852.3	0.0
BY	5.905	123.	845.	14.6	1858.7	1858.7	0.0
BZ	6.010	413.	2239.	5.5	1866.9	1866.9	0.0
CA	6.094	165.	980.	12.5	1873.7	1873.7	0.0
CB	6.143	127.	888.	13.9	1878.9	1878.9	0.0
CC	6.231	334.	2262.	5.3	1886.4	1886.4	0.0
CD	6.323	189.	1019.	11.8	1892.4	1892.4	0.0
CE	6.391	96.	798.	15.0	1900.4	1900.4	0.0
CF	6.450	239.	2310.	5.2	1907.5	1907.4	0.1

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
CG	6.514	184.	1082.	11.1	1909.8	1909.8	0.0
CH	6.616	272.	1602.	7.5	1917.4	1917.2	0.2
CJ	6.707	366.	1474.	8.1	1922.5	1922.5	0.0
CK	6.798	301.	1313.	9.1	1930.7	1930.7	0.0
CL	6.901	304.	1279.	9.4	1939.1	1939.1	0.0
CM	6.987	143.	949.	12.7	1949.8	1949.8	0.0
CN	7.111	467.	2238.	5.4	1958.7	1958.7	0.0
CP	7.199	247.	1080.	11.1	1966.1	1966.1	0.0
CR	7.297	291.	1537.	7.8	1974.4	1974.4	0.0
CS	7.396	287.	1188.	10.1	1981.6	1981.6	0.0
CT	7.494	175.	976.	12.3	1991.4	1991.4	0.0
CU	7.577	231.	1340.	9.0	1999.3	1999.3	0.0
CV	7.670	156.	913.	13.1	2006.7	2006.7	0.0
CW	7.752	104.	806.	14.9	2015.8	2015.8	0.0
CX	7.798	228.	1872.	6.4	2022.6	2022.6	0.0
CY	7.892	209.	1049.	11.4	2028.7	2028.7	0.0
CZ	8.003	284.	1412.	8.5	2040.6	2040.6	0.0
DA	8.095	309.	1319.	9.1	2049.2	2049.2	0.0
DB	8.190	369.	1629.	7.4	2058.6	2058.6	0.0
DC	8.283	282	1202.	10.0	2067.6	2067.5	0.1
DD	8.380	431.	1713.	7.0	2077.1	2076.9	0.2
DE	8.473	305.	1236.	9.7	2085.9	2085.8	0.1
DF	8.567	290.	1314.	9.1	2095.7	2095.7	0.0
DG	8.667	271.	1257.	9.5	2104.7	2104.7	0.0
DH	8.745	477.	2045.	5.9	2111.3	2111.1	0.2

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
DJ	8.859	369.	1216.	9.9	2122.2	2122.2	0.0
DK	8.958	378.	1383.	5.9	2133.2	2133.2	0.0
DL	9.050	287.	857.	9.5	2142.2	2142.2	0.0
DM	9.146	225.	939.	8.7	2153.7	2153.7	0.0
DN	9.244	317.	1057.	7.7	2164.2	2164.2	0.0
DP	9.327	191.	803.	10.1	2173.4	2173.4	0.0
DR	9.403	246.	958.	8.5	2182.1	2182.1	0.0
DS	9.502	302.	902.	9.0	2194.8	2194.7	0.1
DT	9.592	353.	1131.	7.2	2205.7	2205.7	0.0
DU	9.661	271.	910.	8.9	2213.8	2213.8	0.0
DV	9.760	312.	879.	9.2	2225.9	2225.9	0.0
DW	9.868	369.	1234.	6.6	2237.9	2237.8	0.1
DX	9.970	376.	1054.	7.7	2249.5	2249.4	0.1
DY	10.064	216.	788.	10.3	2261.0	2261.0	0.0
DZ	10.165	233.	937.	8.7	2272.7	2272.7	0.0
EA	10.266	215.	853.	9.5	2282.4	2282.4	0.0
EB	10.355	187.	778.	10.4	2292.7	2292.7	0.0
EC	10.445	185.	627.	7.7	2303.6	2303.6	0.0
ED	10.573	182.	555.	8.7	2320.2	2320.2	0.0
EE	10.666	190.	582.	8.3	2333.2	2333.2	0.0
EF	10.752	132.	475.	10.2	2342.7	2342.7	0.0
EG	10.850	96.	424.	11.4	2354.6	2354.6	0.0
EH	10.949	117.	535.	9.0	2369.1	2368.9	0.2
EJ	11.045	78.	414.	11.6	2379.9	2379.9	0.0
EK	11.147	99.	429.	11.2	2395.0	2395.0	0.0

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

FLOODING SOURCE		FLOODWAY			BASE FLOOD WATER SURFACE ELEVATION		
CROSS-SECTION	DISTANCE [1]	WIDTH (FEET)	SECTION AREA (SQUARE FEET)	MEAN VELOCITY (FEET PER SECOND)	WITH FLOODWAY	WITHOUT FLOODWAY	INCREASE
MORGAN CITY WASH							
EL	11.266	88.	485.	9.9	2412.4	2412.4	0.0
EM	11.352	87.	410.	11.8	2425.2	2425.2	0.0
EN	11.431	85.	422.	11.4	2439.2	2439.2	0.0
EP	11.527	110.	445.	10.8	2451.5	2451.5	0.0
ER	11.636	84.	414.	11.7	2467.1	2467.1	0.0
ES	11.712	123.	508.	9.5	2476.5	2476.5	0.0
ET	11.813	72.	384.	12.5	2492.1	2492.1	0.0
EU	11.914	99.	447.	10.8	2505.3	2505.3	0.0
EV	12.018	127.	486.	9.9	2519.9	2519.9	0.0

1 River Miles Above Confluence With the Agua Fria River

TABLE 2

FLOOD CONTROL DISTRICT OF MARICOPA COUNTY

MARICOPA COUNTY, AZ

MICHAEL BAKER, JR., INC.

FLOODWAY DATA

MORGAN CITY WASH

5.0 INSURANCE APPLICATION

For flood insurance rating purposes, flood insurance zone designations are assigned to a community based on the results of the engineering analyses. These zones are as follows:

Zone A is the flood insurance rate zone that corresponds to the 100-year floodplains that are determined in the Flood Insurance Study by approximate methods. Because detailed hydraulic analyses are not performed for such areas, no base flood elevations or depths are shown within this zone.

Zone AE is the flood insurance rate zone that corresponds to the 100-year floodplains that are determined in the Flood Insurance Study by detailed methods. In most instances, whole-foot based flood elevations derived from the detailed hydraulic analyses are shown at selected intervals within this zone.

Zone X is the flood insurance rate zone that corresponds to areas outside the 500-year floodplain, areas within the 500-year floodplain, areas of 100-year flooding where average depths are less than 1 foot, areas of 100-year flooding where the contributing drainage area is less than 1 square mile, and areas protected from the 100-year flood by levees. No base flood elevations or depths are shown within this zone.

6.0 ELEVATION REFERENCE MARKS

As a part of this study, permanent elevation reference were established along Morgan City Wash. Their purpose is to serve future developers in establishing base flood elevation on site and to assist Maricopa County in floodplain administration. Descriptions of Elevation Reference Mark locations are contained in Table 3.

TABLE 3

Elevation Reference Marks

Reference Mark	Elevation (Feet NGVD)	Description of Location
ERM 11	1662.677	From the intersection of Lake Pleasant Road and Castle Hot Springs Road. Thence 1.23 mi. south on Castle Hot Springs Road to ERM-11, A U.S. B.R. BC at centerline station Castle Hot Springs Road 71 + 20.09 at 150 ft. right (east) at 4 ft. barbed wire fence corner running northerly and southerly marked ERM-11.
		TO FIND ERM-12 THROUGH ERM-19, START AT THE INTERSECTION OF INTERSTATE 17 AND CAREFREE HIGHWAY - "HIGHWAY 74" AND PROCEED 6.40 MI. W. TO HIGHWAY 74 AND LAKE PLEASANT ROAD INTERSECTION, THENCE 7.30 MI. N. ON LAKE PLEASANT ROAD TO A COARSE ASPHALT ROAD, THENCE 1.21 MI. NO.ON ASPHALT - DIRT ROAD TO MORGAN CITY WASH STREAMBED, THIS POINT IDENTIFIED AS; MORGAN WEST.
ERM 12	1732.120	Beginning at point Morgan West, thence 0.05 mi. N.W. in Morgan City Wash to ERM #12, A 5/8" rebar set in concrete approx. 111 ft S.W. of centerline of Morgan City Wash and 88 ft. S.E. from abandoned (well) and 1.5 ft. S.E. OF S.E. face of abandoned concrete water trough; marked "ERM 12".
ERM 13	1806.195	Beginning at point; Morgan West, thence 1.05 mi. N.W. in Morgan City Wash to ERM-13, A 5/8" rebar set in concrete; approx. 29' N.E. of centerline of Morgan City Wash in an alluvial deposit. Marked ERM-13.
ERM 14	1891.945	Beginning at point; Morgan West, Thence 2.10 mi. N.W. in Morgan City Wash to ERM-14, A 5/8" rebar set in concrete; approx. 73' N.E. of centerline of Morgan City Wash and approx. 20' south of edge of rock wall marked "ERM-14".
ERM 15	1976.50	Beginning at point; Morgan West, thence 3.15 mi. N.W. in Morgan City Wash To ERM-15, a 5/8" rebar set in concrete approx. 28' N.E. of centerline of Morgan City Wash, and approx. 0.15 mi. N.W. of Tule Spring in Morgan City Wash, marked "ERM-15".
ERM-16	2055.85	Beginning at point; Morgan West, thence 4.00 mi. N.W. in Morgan City Wash to ERM-16, a 5/8" rebar set in concrete, approx. 40' N.E. of centerline of Morgan City Wash, and approx. 6' south of south face of concrete well pad and approx. 26' S.E. of east side driveway entrance to Bog Ranch property, marked "ERM-16".

TABLE 3

Elevation Reference Marks

Reference Mark	Elevation (Feet NGVD)	Description of Location
ERM-17	2155.02	Beginning at point; Morgan West thence 5.04 mi. N.W. in Morgan City Wash to ERM#17, a 5/8" rebar set in concrete approx. 48 ft. southwest of centerline of Morgan City Wash, marked ERM-17.
ERM-18	2268.18	Begin at point Morgan West, thence 6.05 mi. N.W. in Morgan City Wash to ERM#18, a 5/8" rebar set in concrete approx. 56 ft. southwest of centerline of Morgan City Wash, and approx. 0.10 mi. N.W. of 4 ft. barbed wire fence gate in Morgan City Wash, marked ERM-18.
ERM-19	2450.86	Begin at point Morgan West thence 7.75 mi. N.W. in Morgan City Wash to ERM#19, a 5/8" rebar set in concrete (at 6.25 mi., bear to the right where Morgan City Wash streambed forks in two directions) approx. 24 ft. southwest of centerline of Morgan City Wash, and approx. 0.60 mi. southwest of well in northern region of Morgan City Wash, marked ERM-19.
		TO FIND ERM-20 & ERM-21, START AT THE INTERSECTION OF INTERSTATE 17 AND CAREFREE HIGHWAY, - "HIGHWAY 74" AND PROCEED 6.40 MI. W. TO HIGHWAY 74 AND LAKE PLEASANT ROAD INTERSECTION, THENCE 3.75 MI. N. ON LAKE PLEASANT ROAD TO NEW WADDELL DAM ROAD, THENCE 2.25 MI. N. ON NEW WADDELL DAM ROAD TO AN ACCESS DIRT ROAD ON SOUTHWEST SIDE OF NEW WADDELL DAM ROAD (AT 2.10 MI., WILL PASS OVERLOOK ROAD INTERSECTION) THENCE,0.56 MI. S.W. ON ACCESS DIRT ROAD DOWN THE MOUNTAIN TO THE INTERSECTION OF MORGAN CITY WASH, THIS POINT IDENTIFIED AS; MORGAN EAST.
ERM-20	1590.715	Beginning at point; Morgan East thence 1.44 mi. N.W. in Morgan City Wash to ERM#20, a 5/8" rebar set in concrete approx. 26 ft. N.E. of centerline of northern Fork of Morgan City Wash, and near N.E., junction of Chalky Spring at North Fork of Morgan City Wash, marked "ERM-20".
ERM-21	1497.435	Beginning at point; Morgan East thence 0.08 mi. S.E. in Morgan City Wash to ERM#21 a 5/8" rebar set in concrete approx. 37 ft. N.E. of centerline of Morgan City Wash at northern edge of bend in wash, and at toe dirt embankment by rock wall marked - ERM#21.

TABLE 3

Elevation Reference Marks

Reference Mark	Elevation (Feet NGVD)	Description of Location
ERM-22	1412.28	A 5/8" rebar set in concrete approx. 105 ft. south of centerline of Morgan City Wash, and approx. 50 ft. east of centerline of New Waddell Dam Road, and at the southeast corner of New Waddell Dam Road bridge marked ERM#22.

7.0 OTHER STUDIES

A Flood Insurance Study has been published for Maricopa County and Incorporated Areas (Reference 4). This study includes the delineation of the reach of the Agua Fria River to which Morgan City Wash is tributary. The results of this study are in exact agreement with the results of that study.

8.0 LOCATION OF DATA

Information concerning the pertinent data used in the preparation of this study may be obtained from the Flood Control District of Maricopa County, 3335 West Durango Street, Phoenix, Arizona 85009.

9.0 BIBLIOGRAPHY AND REFERENCES

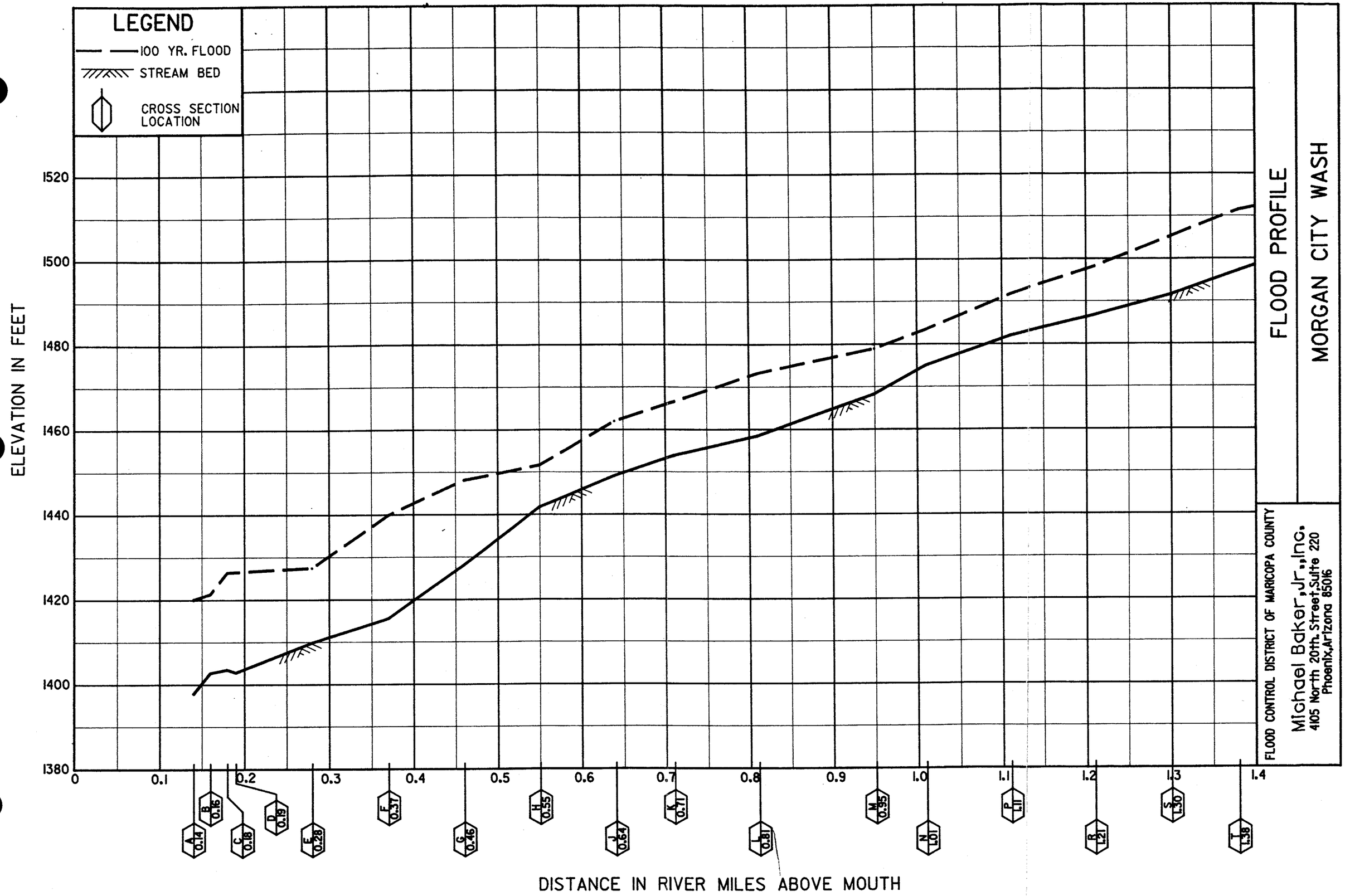
1. United States Army Corps of Engineers, Hydrologic Engineering Center, "HEC-1 Flood Hydrograph Package Users Manual," March, 1987 and "Flood Hydrograph Package HEC-1" (IBM XT 512k Version) February 1, 1985.

2. McLain-Harbers Co, Inc., Digitized Topographic Mapping, Original Scale 1:2400, Contour Interval 4 feet, Rodger Creek, 1989.

3. U.S. Army Corps of Engineers, Hydrologic Engineering Center, "HEC-2 Water Surface Profile Users Manual", September 1982 and "Water Surface Profiles", November 1976, Updated May 1984, IBM-PC-XT Version, August 1985.

4. Flood Insurance Study for Maricopa County, Arizona and Incorporated Areas, Federal Emergency Management Agency, Effective date - April 15, 1988.

5. "Guidelines and Specifications for Technical Elevation Contractors", Federal Emergency Management Agency, Flood Insurance Administration.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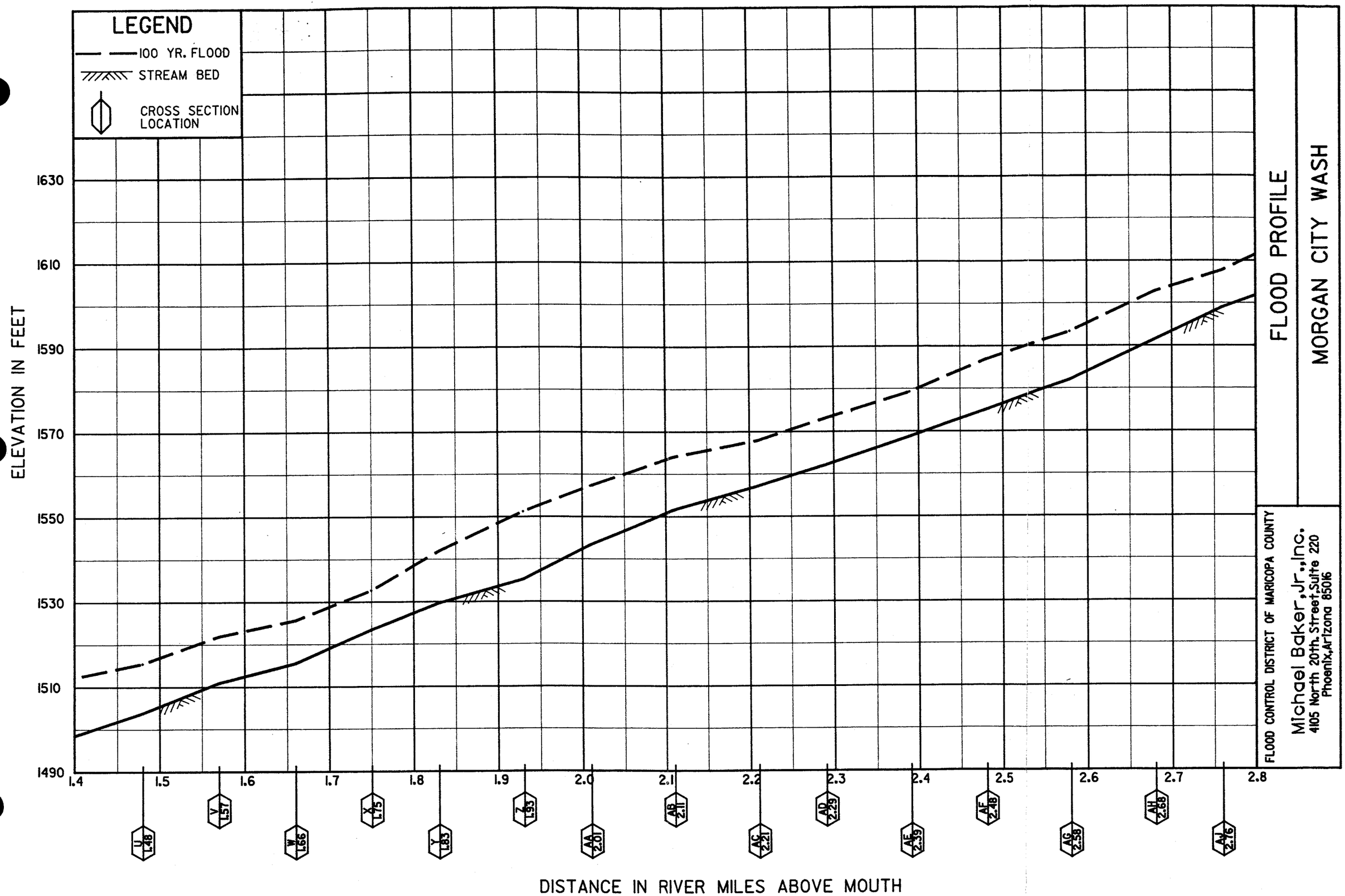
100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
ELEVATION IN FEET
1520
1500
1480
1460
1440
1420
1400
1380
0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
1.1
1.2
1.3
1.4
A 0.14
B 0.16
C 0.18
D 0.19
E 0.28
F 0.37
G 0.46
H 0.55
J 0.64
K 0.71
L 0.81
M 0.95
N 1.01
P 1.11
R 1.21
S 1.30
T 1.38
DISTANCE IN RIVER MILES ABOVE MOUTH
FLOOD PROFILE
MORGAN CITY WASH
FLOOD CONTROL DISTRICT OF MARICOPA COUNTY
Michael Baker, Jr., Inc.
4105 North 20th Street, Suite 220
Phoenix, Arizona 85016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STREAM BED
CROSS SECTION LOCATION
ELEVATION IN FEET
1630
1610
1590
1570
1550
1530
1510
1490
1.4
1.5
1.6
1.7
1.8
1.9
2.0
2.1
2.2
2.3
2.4
2.5
2.6
2.7
2.8
U 1.48
V 1.57
W 1.66
X 1.75
Y 1.83
Z 1.93
AA 2.01
AB 2.11
AC 2.21
AD 2.29
AE 2.39
AF 2.48
AG 2.58
AH 2.68
AJ 2.76
DISTANCE IN RIVER MILES ABOVE MOUTH
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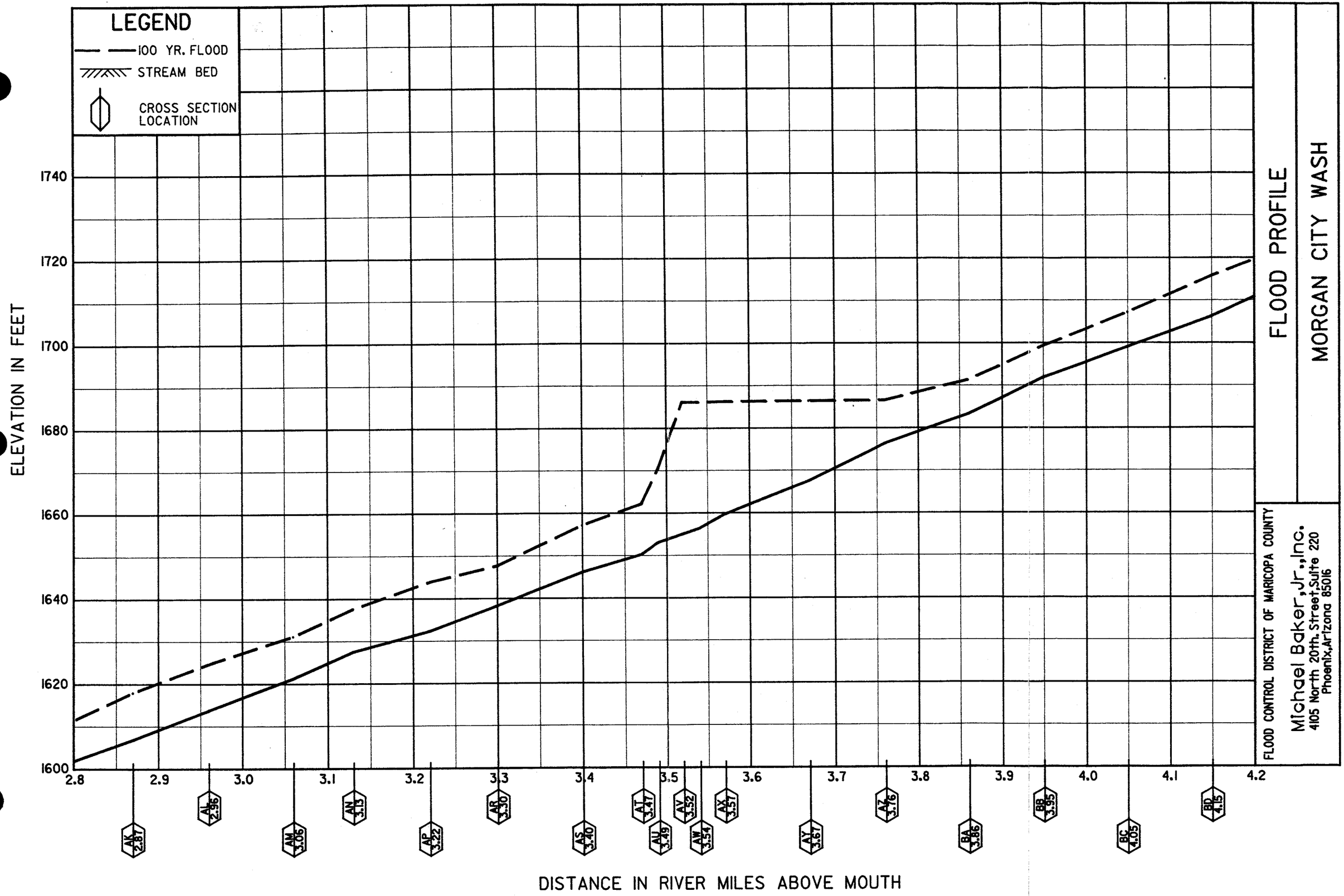
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STREAM BED
CROSS SECTION LOCATION
ELEVATION IN FEET
1740
1720
1700
1680
1660
1640
1620
1600
2.8
2.9
3.0
3.1
3.2
3.3
3.4
3.5
3.6
3.7
3.8
3.9
4.0
4.1
4.2
AK 2.87
AL 2.96
AM 3.06
AN 3.15
AP 3.22
AR 3.30
AS 3.40
AT 3.47
AU 3.49
AV 3.52
AW 3.54
AX 3.57
AY 3.67
AZ 3.76
BA 3.86
BB 3.95
BC 4.05
BD 4.15
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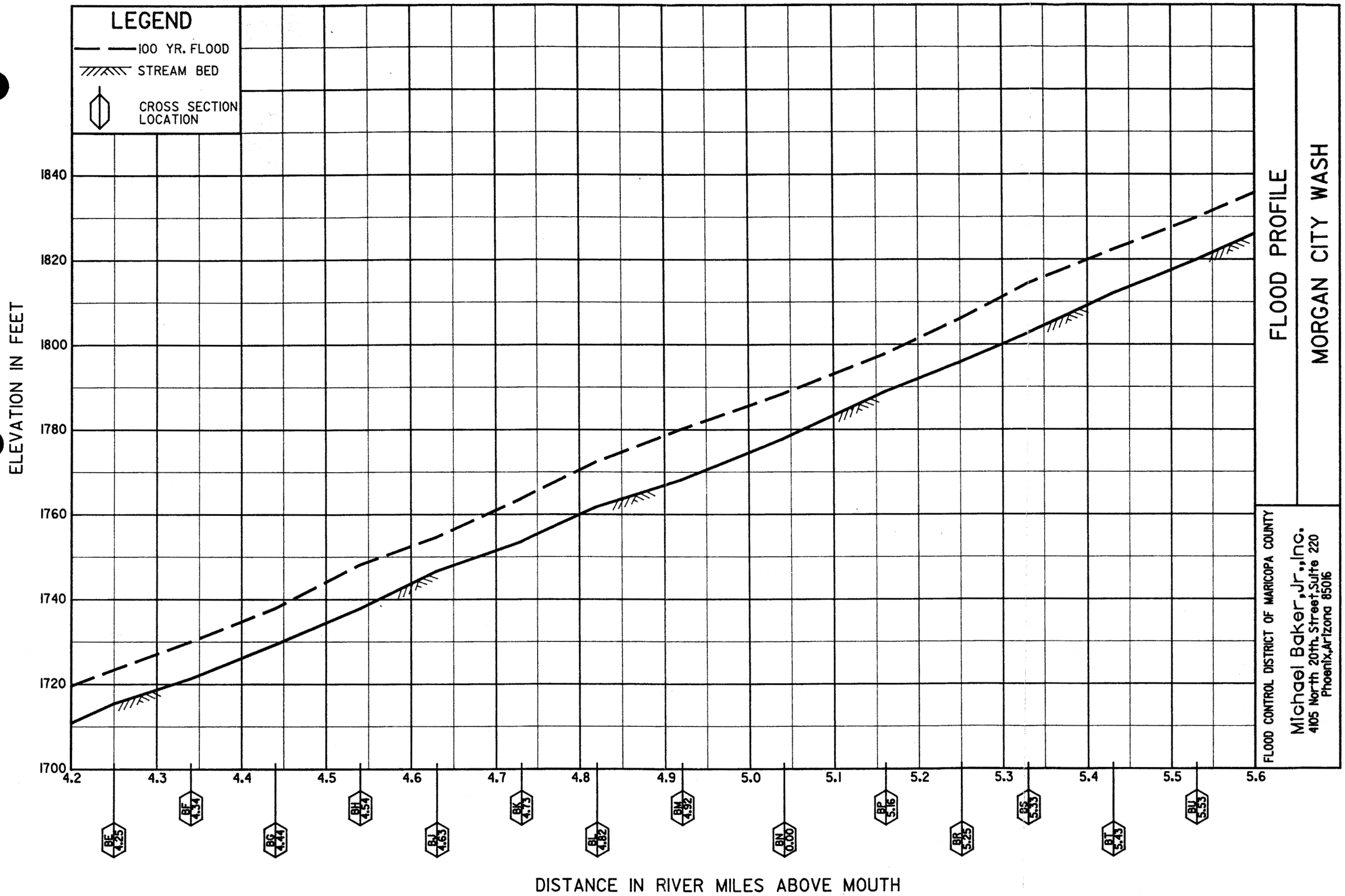
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100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
ELEVATION IN FEET
1840
1820
1800
1780
1760
1740
1720
1700
4.2
4.3
4.4
4.5
4.6
4.7
4.8
4.9
5.0
5.1
5.2
5.3
5.4
5.5
5.6
BE 4.25
BF 4.34
BG 4.44
BH 4.54
BJ 4.63
BK 4.73
BL 4.82
BM 4.92
BN 0.00
BP 5.16
BR 5.25
BS 5.33
BT 5.43
BU 5.53
DISTANCE IN RIVER MILES ABOVE MOUTH
FLOOD PROFILE
MORGAN CITY WASH
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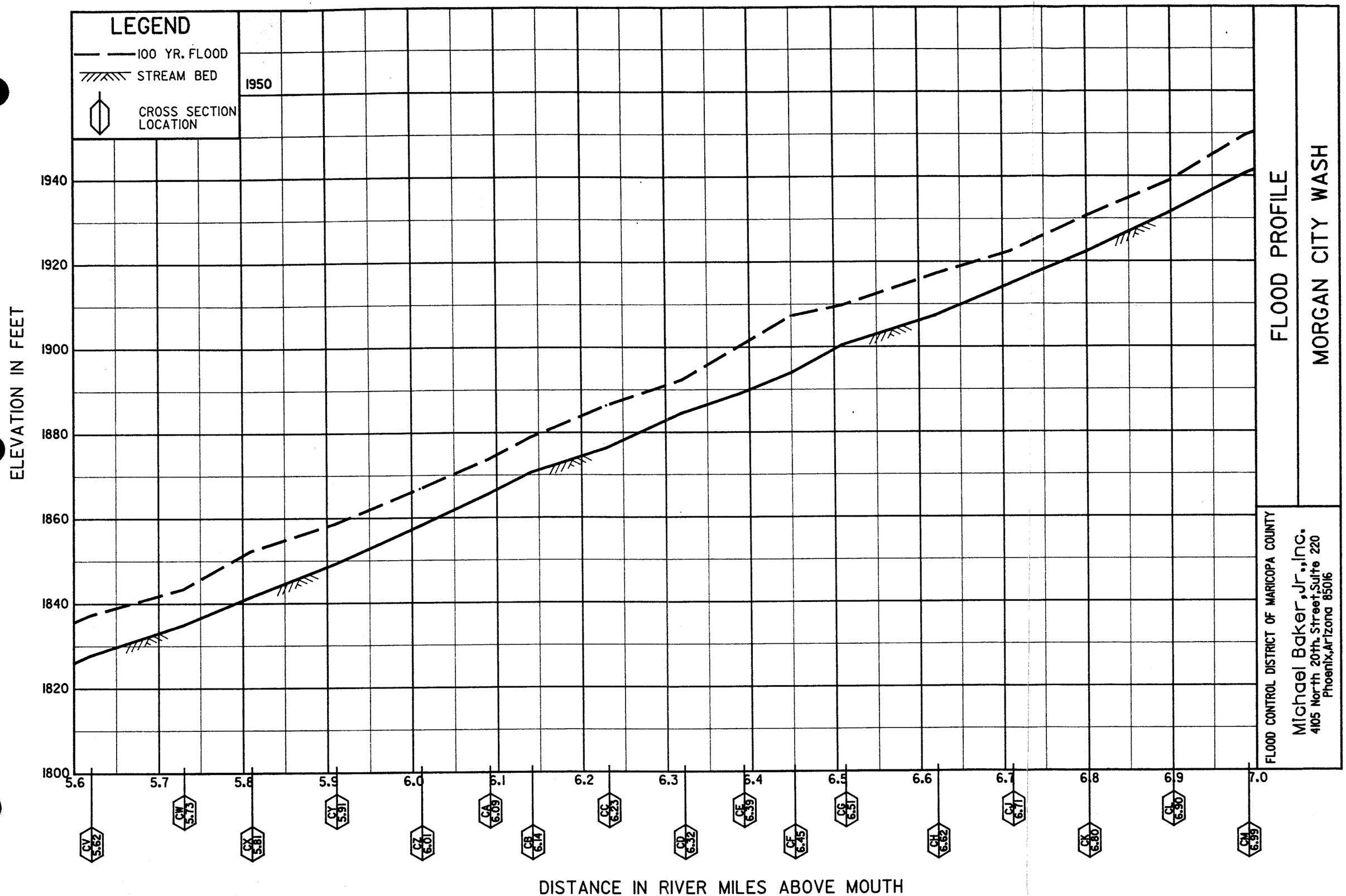
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100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
1950
ELEVATION IN FEET
1940
1920
1900
1880
1860
1840
1820
1800
5.6
5.7
5.8
5.9
6.0
6.1
6.2
6.3
6.4
6.5
6.6
6.7
6.8
6.9
7.0
CV 5.62
CW 5.73
CX 5.81
CY 5.91
CZ 6.01
CA 6.09
CB 6.14
CC 6.23
CD 6.32
CE 6.39
CF 6.45
CG 6.51
CH 6.62
CJ 6.71
CK 6.80
CL 6.90
CM 6.99
DISTANCE IN RIVER MILES ABOVE MOUTH
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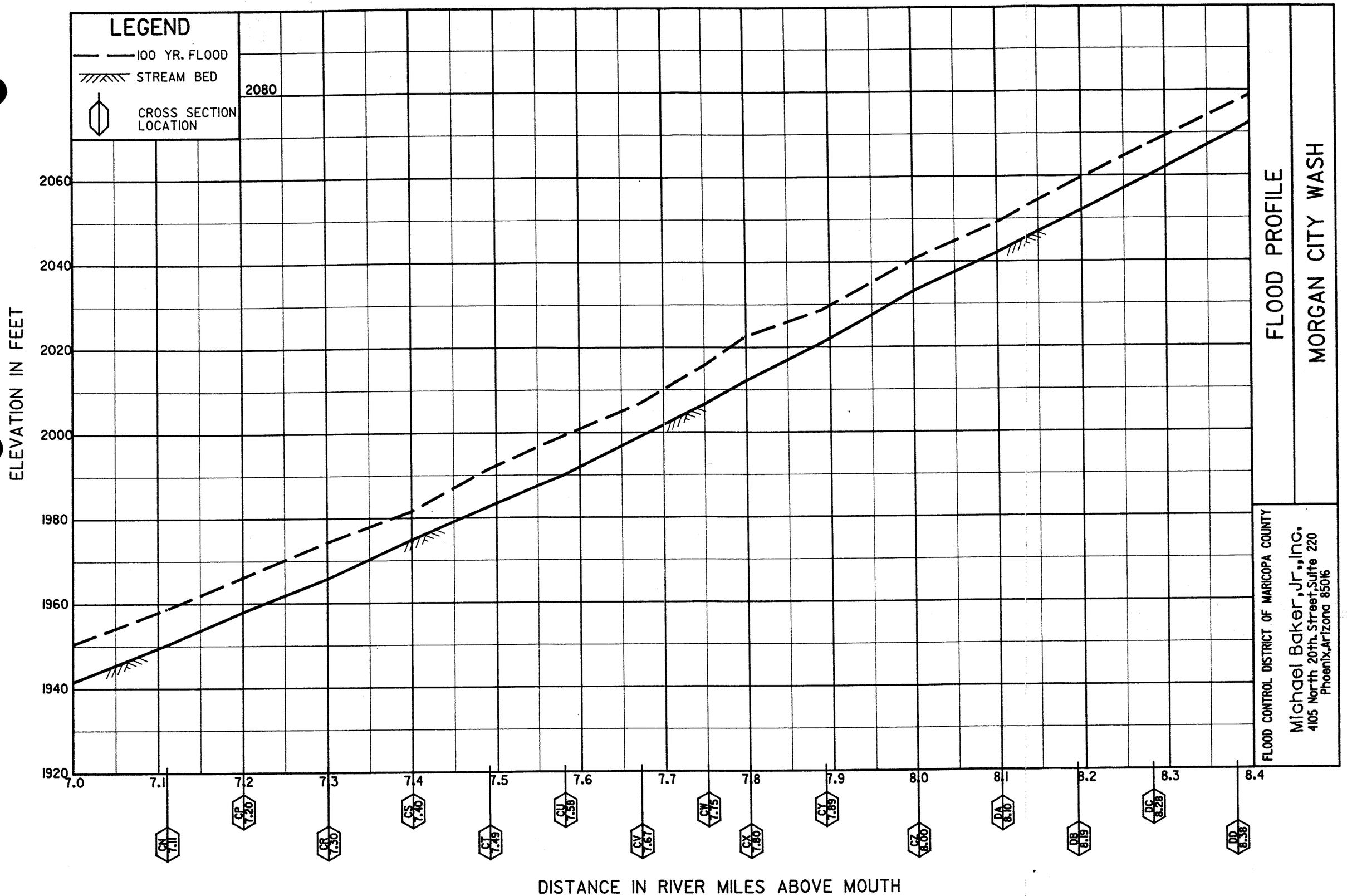
LEGEND
100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
2080
2060
2040
2020
2000
1980
1960
1940
1920
ELEVATION IN FEET
7.0
7.1
7.2
7.3
7.4
7.5
7.6
7.7
7.8
7.9
8.0
8.1
8.2
8.3
8.4
CN 7.11
CP 7.20
CR 7.30
CS 7.40
CT 7.49
CU 7.58
CV 7.67
CW 7.75
CX 7.80
CY 7.89
CZ 8.00
DA 8.10
DB 8.19
DC 8.28
DD 8.38
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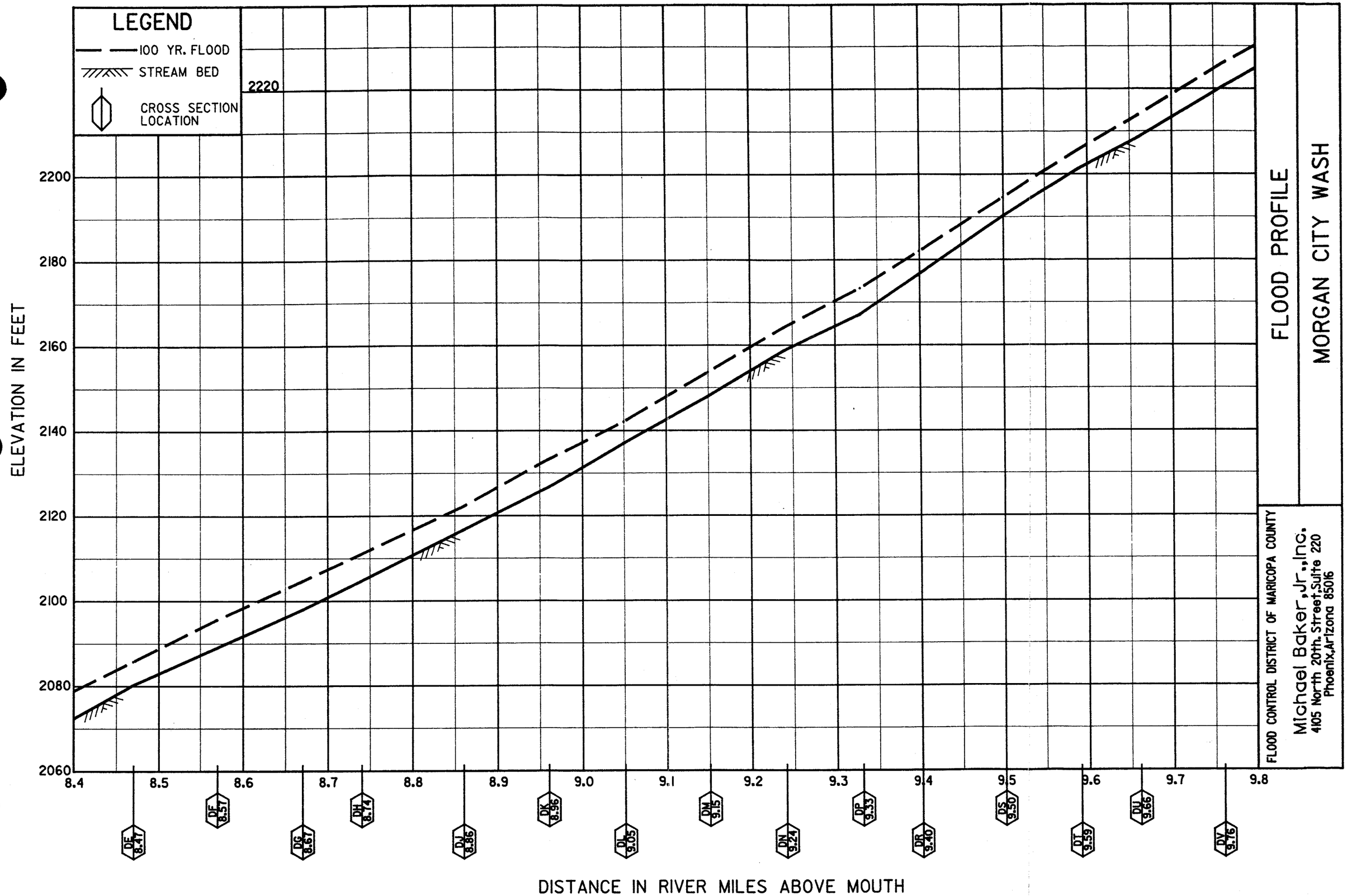
LEGEND
100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
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2200
2180
2160
2140
2120
2100
2080
2060
ELEVATION IN FEET
8.4
8.5
8.6
8.7
8.8
8.9
9.0
9.1
9.2
9.3
9.4
9.5
9.6
9.7
9.8
DE 8.41
DF 8.57
DG 8.67
DH 8.74
DJ 8.86
DK 8.96
DL 9.05
DM 9.15
DN 9.24
DP 9.33
DR 9.40
DS 9.50
DT 9.59
DU 9.66
DV 9.76
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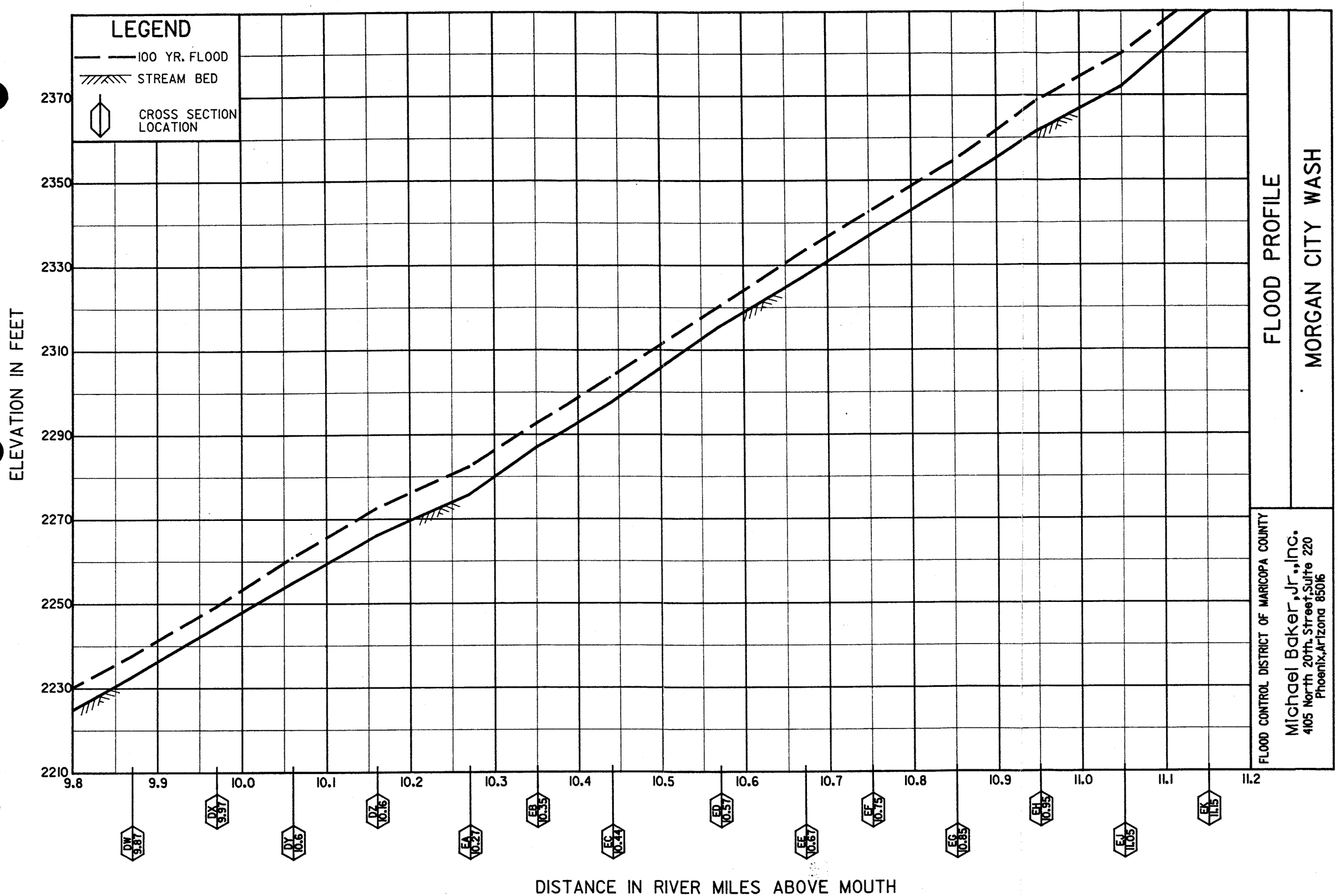
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STREAM BED
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2310
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2270
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9.8
9.9
10.0
10.1
10.2
10.3
10.4
10.5
10.6
10.7
10.8
10.9
11.0
11.1
11.2
DW 9.87
DX 9.97
DY 10.6
DZ 10.16
EA 10.21
EB 10.35
EC 10.44
ED 10.57
EE 10.67
EF 10.75
EG 10.85
EH 10.95
EJ 11.05
EK 11.15
DISTANCE IN RIVER MILES ABOVE MOUTH
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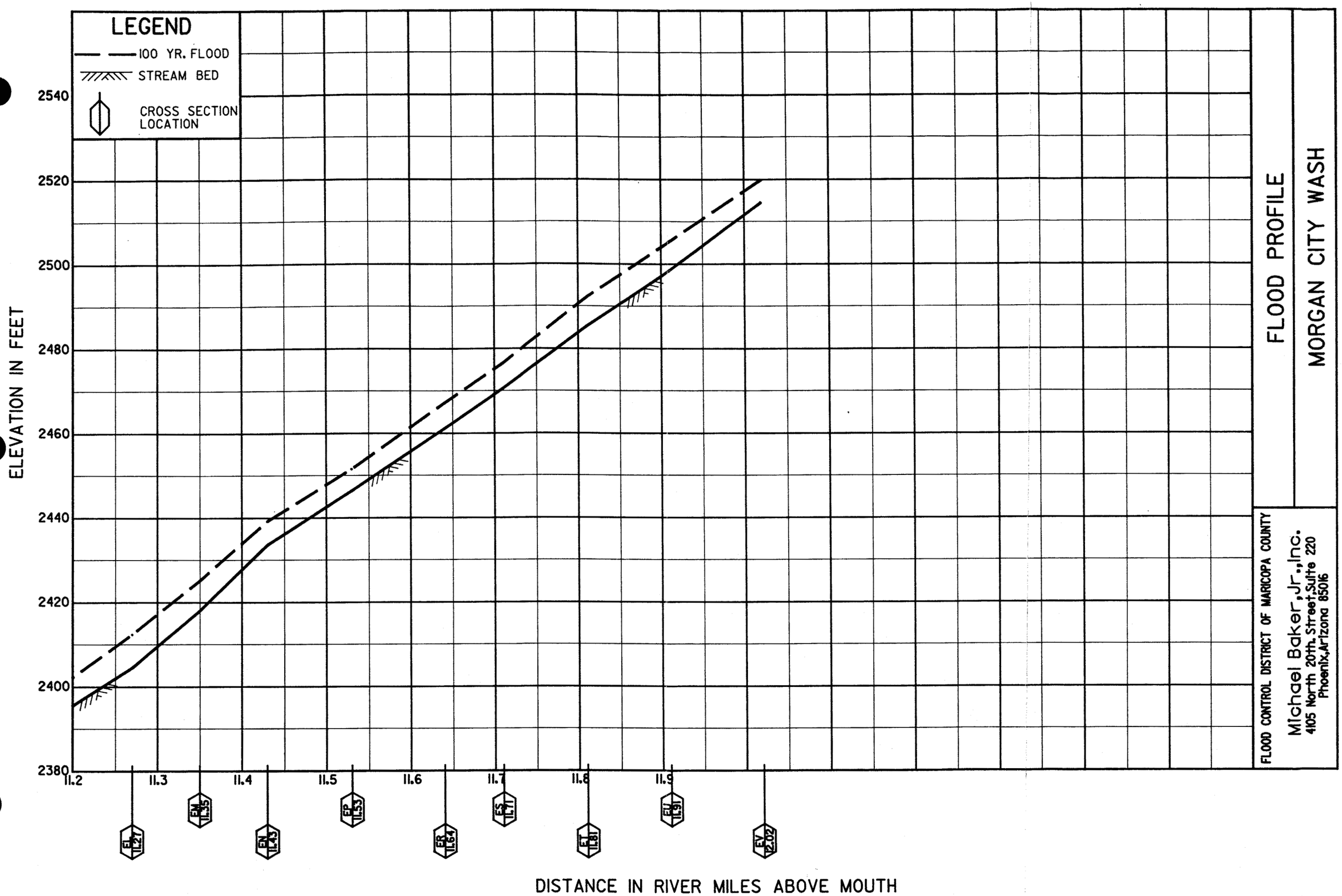
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100 YR. FLOOD
STREAM BED
CROSS SECTION LOCATION
ELEVATION IN FEET
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2520
2500
2480
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2440
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2400
2380
11.2
11.3
11.4
11.5
11.6
11.7
11.8
11.9
EL 11.27
EM 11.35
EN 11.43
EP 11.53
ER 11.64
ES 11.71
ET 11.81
EU 11.91
EV 12.02
DISTANCE IN RIVER MILES ABOVE MOUTH
FLOOD PROFILE
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Summary of Field Inspection

November 1989

16923-HPH

MORGAN CITY WASH
FCD 89-15

Prepared for

Flood Control District
of
Maricopa County

Submitted by

Michael Baker, Jr., Inc
Phoenix, Arizona

Introduction

The required field inspection was performed for Morgan City Wash on October 31, 1989. The Flood Control District of Maricopa County (FCD) was represented by Pedro Calza and Russ Cruff. Bill Jolly and Sil Obertello represented Michael Baker, Jr., Inc.

Purpose

The purpose of this report is to document field reconnaissance of the study reaches of Morgan City Wash.

Scope

The field observations included are: estimates of Manning's "n" values, determination of the methods for assignment of channel bank stations in various locations, location of suspected overflow or split flow areas. Task 3 of the Scope of Work also includes inspection of flood control facilities, of which none exist within the Morgan City Wash study reach. Bridge measurements, also required in Task 3, were made by survey crew and will be included with the submittal of survey notes.

Discussion

Field observation of Morgan City Wash is made simple because the wash bed serves as a natural gravel road for an 8 mile reach west of the New Lake Pleasant Access Road. The downstream (easterly) 2 miles of the wash is not as readily accessible by vehicle. However, the ground observations and aerial photography for the project provide an excellent basis for defining hydraulic parameters. Channel and overbank roughness and channel limits were determined at five locations along Morgan City Wash to represent various reach characteristics. Captioned photographs showing representative cross-sections and selected "n" values are included in the Appendix.

Morgan City Wash generally consists of a floodplain of varying width confined between bluffs and/or hillslopes. The surface roughness elements are fairly constant throughout the study reach. The exception is the last mile of the reach above the discharge to the Agua Fria River. This segment will be discussed last.

Study Reach From Upstream End to One Mile Above Agua Fria River

- Manning's "n" Values

  Within the low flow channel, the bed is clean coarse gravel with some cobble-sized materials. Generally, there are no boulders and very little sand present. In a clean straight channel, this material would produce a Manning's "n" of 0.30 to 0.35.

  Overbank areas consist of moderate to dense desert riparian vegetation growing on slightly elevated silty bar deposits. The density of brush would generally produce "n" values of 0.065 to 0.080 in straight prismatic overbanks. The variation in Manning's "n" along the wash is generated by the serpentine alignment of the floodplain through the hilly terrain and the "meander" of the low flow channel within the floodplain. Meander here is defined as the deflection of the channel from wall to wall along the canyon. Channel location, direction of flow and overbank configuration can change drastically in the 500 foot interval between cross-sections. These all increase resistance to flow.

  For the HEC-2 cross-section definitions, the main channel will include the primary low-flow channel and confining slopes on each side, i.e. to the top of the 2' to 4' high silt bars or slightly up the side of a canyon wall where the primary flow impinges on the wall. Manning's "n" will be increased appropriately for locations where vegetation occupies the channel and/or confining slopes, where the width varies significantly between cross-sections or where abrupt alignment changes would hinder the flow.

Overbank values for Manning's "n" will be determined by density of vegetation and effectiveness of the overbank in transporting flows from one cross-section to another. In some areas, the change in alignment of the floodplain may make some overbanks mere ponding areas. Overbank "n" values will be increased where flows are shallow. "N" values will be appropriately lowered where secondary channels occur in the overbank.

- Channel Bank Station
  The main channel will be defined as the main low flow channel and adjacent banks. Top of bank may be at the top of slope of the silt bar or "part way" up the canyon wall or hillslope. In order to keep channel banks below the calculated water-surface elevation, many of these bank stations will have to be manually interpolated because of extremely steep slopes. In some cases the main channel may extend from canyon wall to canyon wall in "narrows" where no definable overbank areas exist.

Downstream Mile of Reach

The last mile of the study reach is fed by a small perennial spring. The flow rate is not significant for 100-year flood peaks, but the constant trickle of water supports a very dense riparian thicket. This thicket is confined within a narrow canyon and occupies the full width of the canyon floor. The height and bore of trees and the undergrowth in the thicket represent a significant resistance to flow of any conceivable depth in a 100-year flood.

- Manning's "n" Values
  The dense thicket will be given an "n" value of 0.10. Where vegetation thins out toward the edges of the canyon or a clear channel is indicated on the aerial photos, "n" values will be adjusted appropriately.

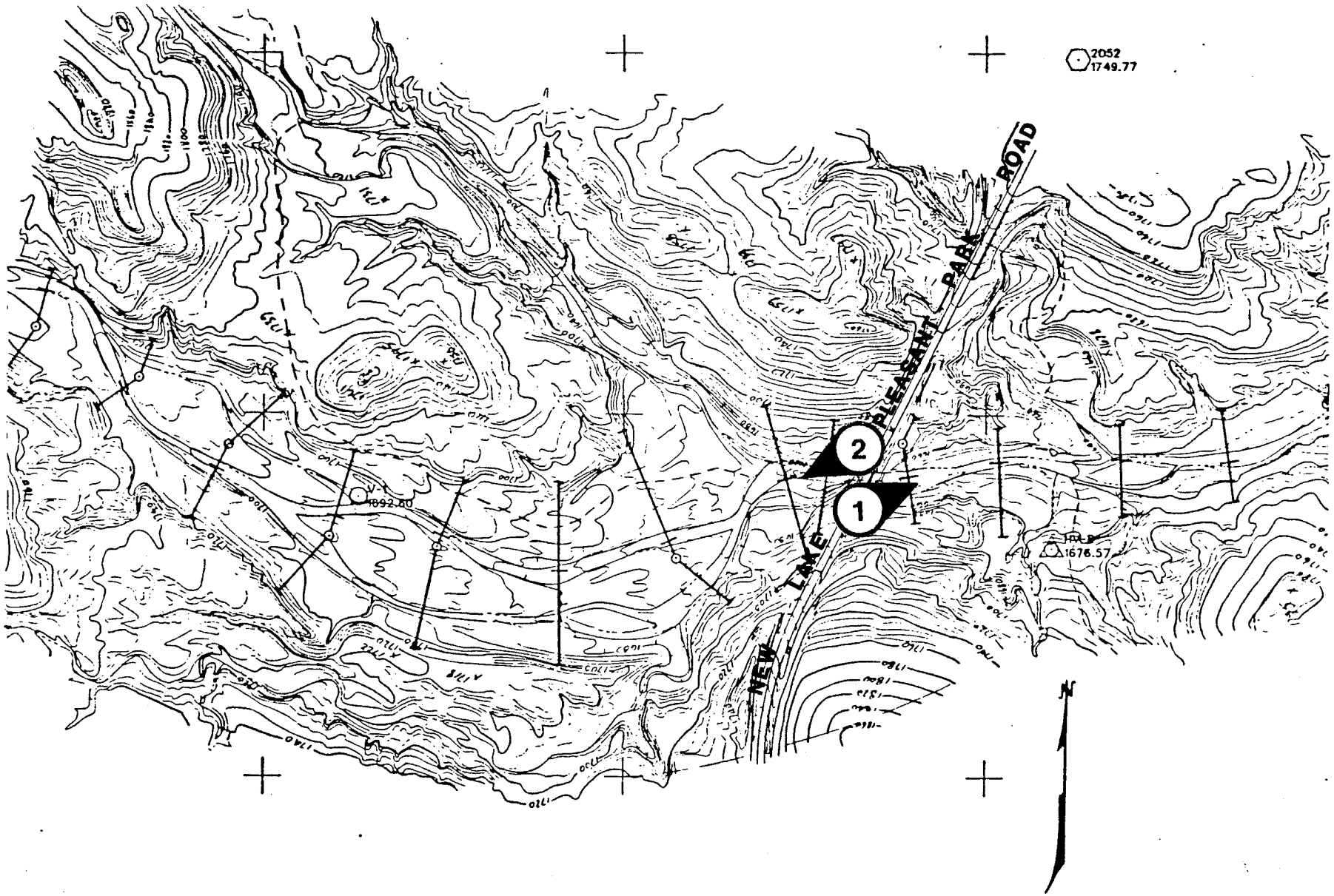
- Channel Bank Station
  Where a cleared low-flow channel is located, the bank stations will be set at the margin of the clearing. For most of this thicket reach, channel banks will be set slightly up each canyon wall from the bed.

- <u>Overflow and Split Flow Areas</u>

  Overflow - It is expected that the Old Lake Pleasant Park Access Road culvert adjacent to the Agua Fria River will be over-topped in a 100-year Morgan City Wash Flood. It is possible that the New Park Access Road could be overtopped, but culvert area and potential headwater depth are both greater than at the Old Park Access Road.

  Split flows may be fairly common in areas where the wash is wide. However, the flow will be confined within the canyon throughout the study reach. There will be no permanent flow splits, and no major "islands" are likely to be defined by the delineation.

Appendix



Approximate Scale 1" - 600'

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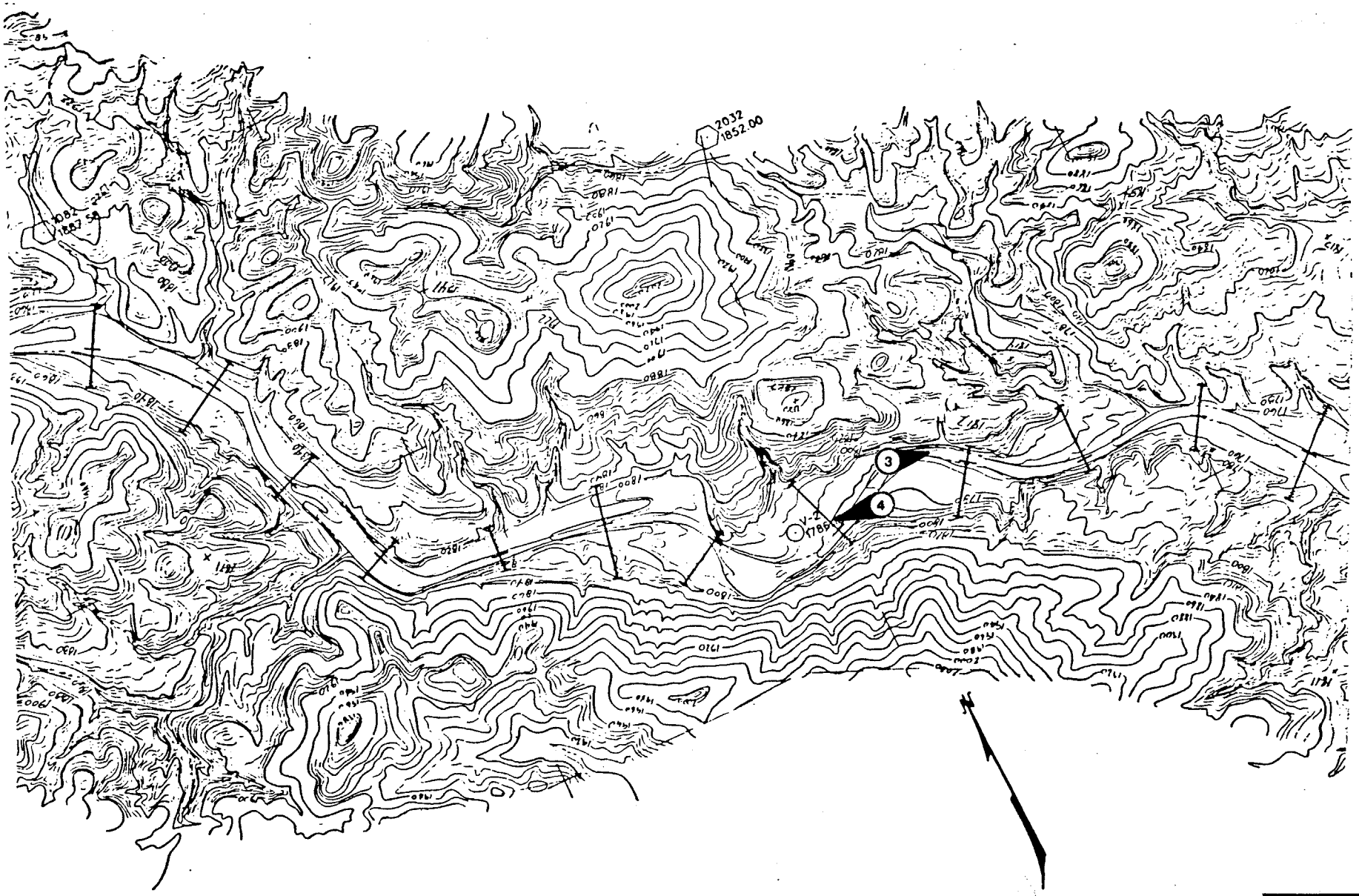

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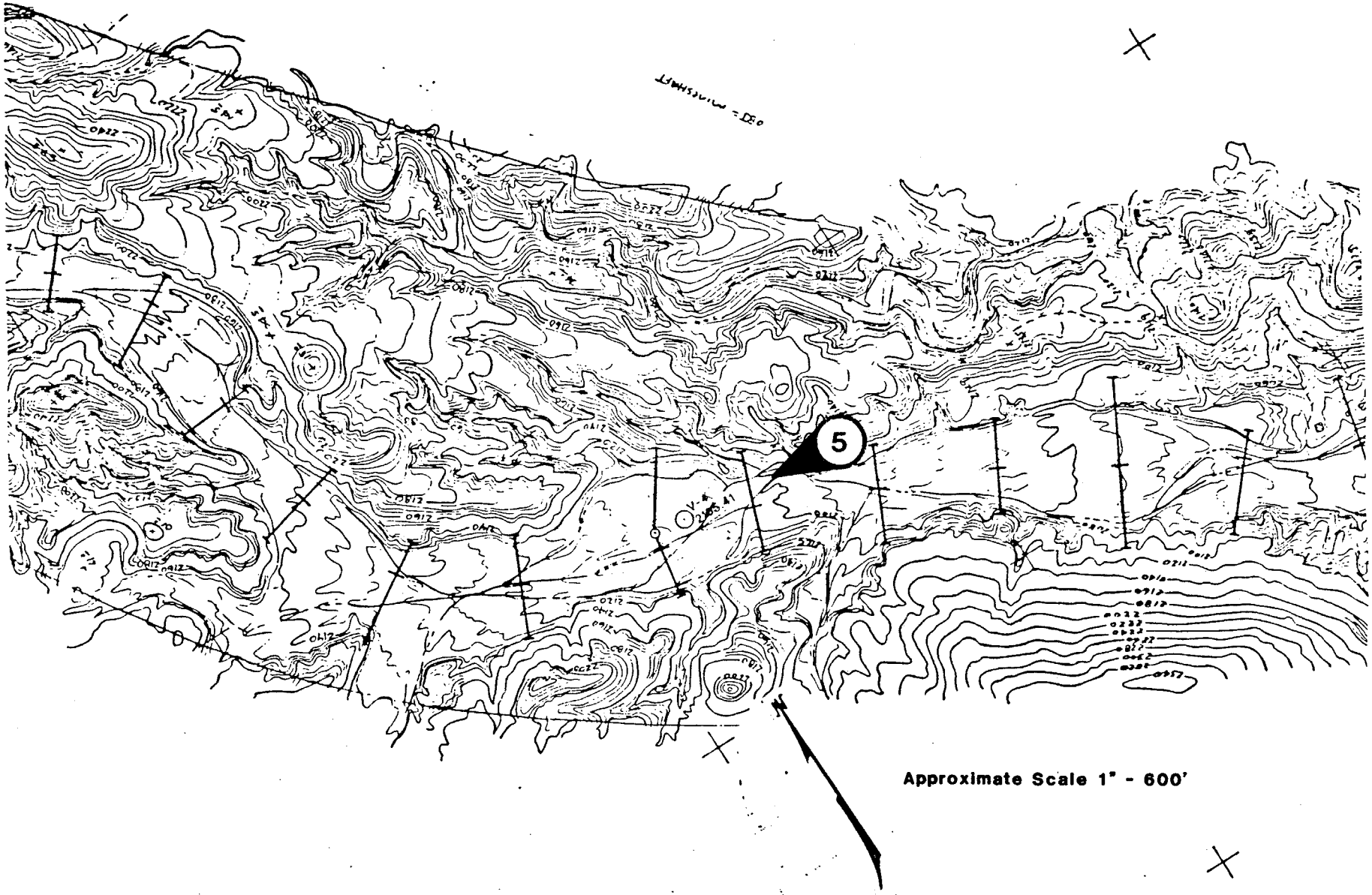
Baker Engineers

Michael Baker, Jr., Inc.



Baker Engineers

Michael Baker, Jr., Inc.

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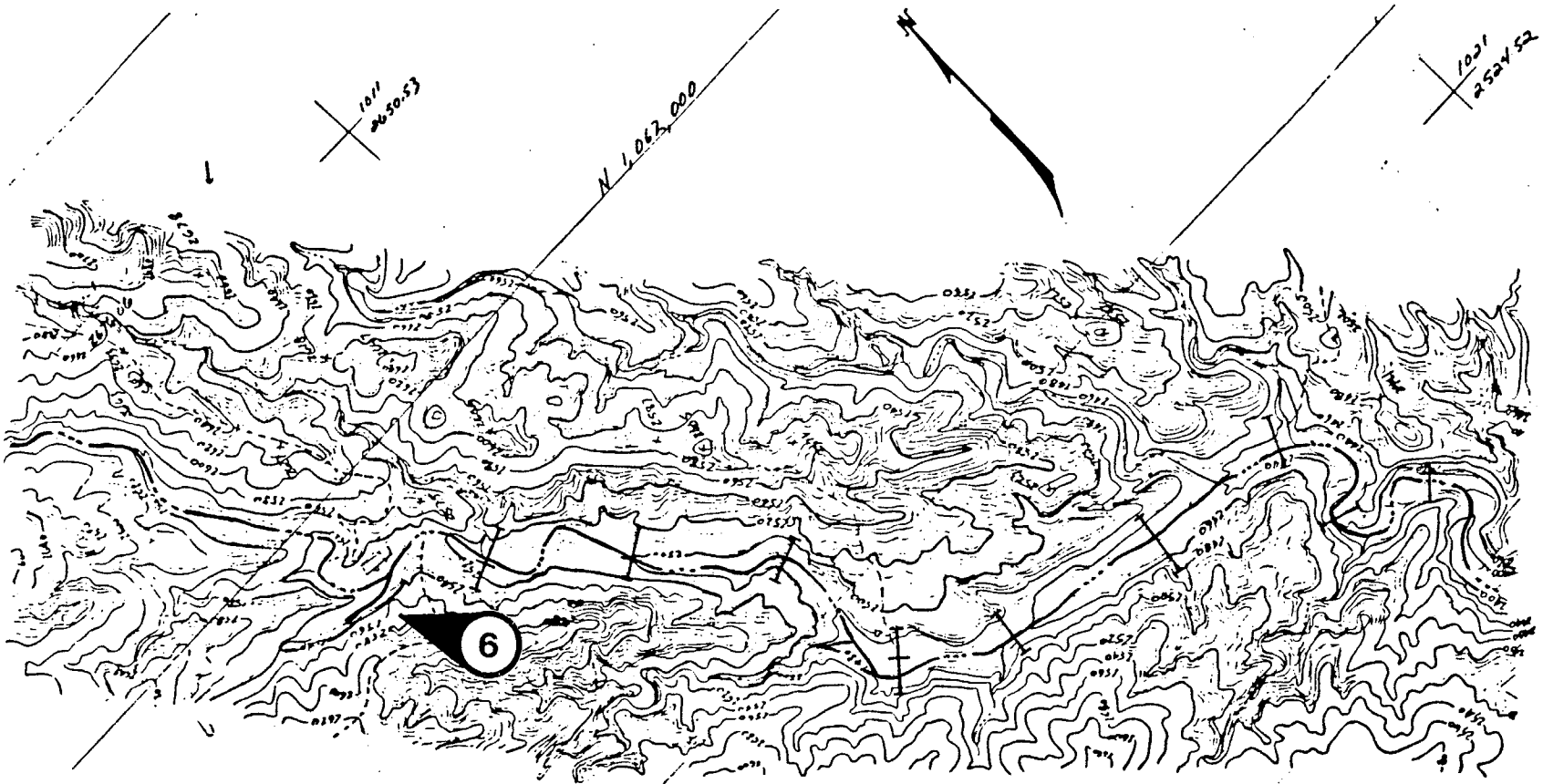

UP-STREAM END OF STUDY REACH

Baker Engineers

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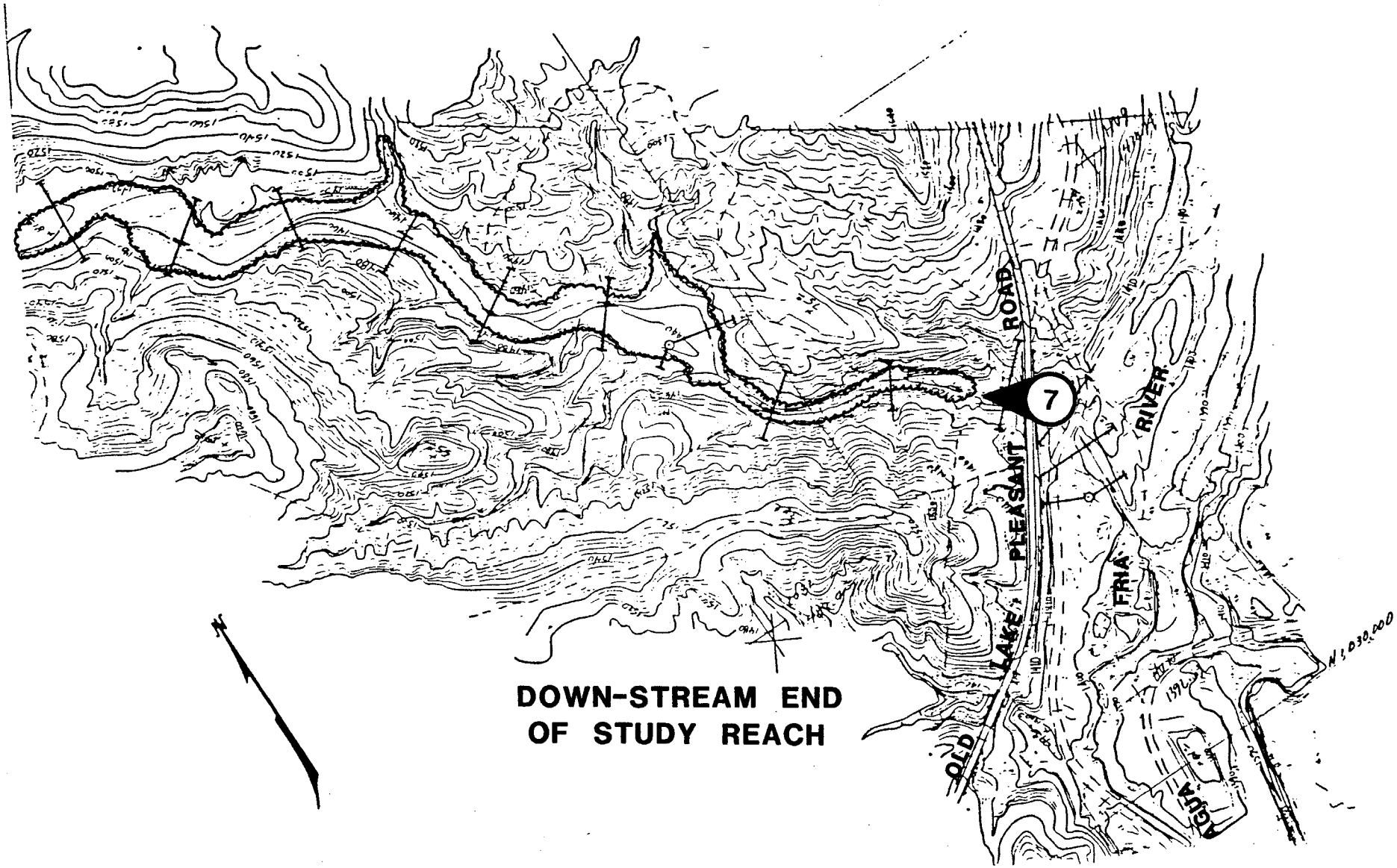

DOWN-STREAM END OF STUDY REACH

Approximate Scale 1" - 600'

Baker Engineers

Michael Baker, Jr., Inc.

SUMMARY OF FIELD INSPECTION
MORGAN CITY WASH

PHOTO 1: MORGAN CITY WASH LOOKING DOWNSTREAM FROM NEW LAKE PLEASANT PARK ACCESS ROAD, CHANNEL WIDTH VARIES 40' TO 150'. MAIN CHANNEL INCLUDES GRAVEL BED AND 2' TO 5' HIGH SLOPES OF ADJACENT RAISED BAR AREAS. SLOPE VEGETATION VARIES FROM SPARSE GRASSES TO DENSE MESQUITE. OVERBANK HERE IS FAIRLY UNIFORM MODERATELY DENSE MESQUITE.

CHANNEL N = 0.040 TO 0.045 DEPENDS ON VARIABILITY OF ALIGNMENT AND SLOPE VEGETATION

OVERBANK N = 0.070

PHOTO 2: MORGAN CITY WASH LOOKING UPSTREAM FROM NEW LAKE PLEASANT PARK ACCESS ROAD, CHANNEL WIDTH VARIES 100' TO 150' INCLUDING BOTH CLEAR AND LIGHTLY VEGETATED GRAVEL BED. MAIN CHANNEL BANKS ARE AT THE TOP OF THE 2 TO 5' SLOPES ADJACENT TO CHANNEL. TOTAL FLOODPLAIN WIDTH AVERAGES 700' FOR OVER 1/2 MILE UPSTREAM. DENSE MESQUITE OCCUPIES MOST OF THE OVERBANK, BUT SECONDARY CHANNELS MAY BE SIGNIFICANT PROPORTION OF THE TOTAL WIDTH AT SOME SECTIONS.

CHANNEL N = 0.035 TO 0.040

OVERBANK N = 0.080 FOR DENSE MESQUITE, WITH APPROPRIATE REDUCTION WHERE SECONDARY CHANNELS ARE SIGNIFICANT.

PHOTO 3: MORGAN CITY WASH NEAR MID-POINT OF STUDY REACH LOOKING DOWNSTREAM.

PHOTO 4: MORGAN CITY WASH NEAR MID-POINT OF STUDY REACH LOOKING UPSTREAM.

CHANNEL WIDTH VARIES 50' TO 100'. MUCH OF THE REACH THE CANYON WALL ACTS AS ONE CHANNEL BANK OR THE OTHER AND CHANNEL ALIGNMENT IS HIGHLY VARIABLE. OVERBANK AREAS CHANGE RADICALLY FROM SECTION TO SECTION. USUALLY, ONLY ONE OVERBANK EXISTS AT A CROSS-SECTION, AND FREQUENTLY THE OVERBANK EXISTS ONLY ON THE OPPOSITE SIDE OF THE CHANNEL AT THE SUCCEEDING CROSS-SECTION. THE CHANNEL BANKS ARE DEFINED AS A POINT 4' UP THE CANYON WALL OR AT THE TOP OF THE VEGETATED SILT BAR. BASE VALUES OF MANNING'S N WHICH ALLOW FOR SURFACE ROUGHNESS MUST BE ADJUSTED FOR THE IMPACT OF THE ALIGNMENT.

CHANNEL N = 0.035 TO 0.045 DEPENDING ON ROUGHNESS ALONG EDGES OF THE MAIN CHANNEL. ADJUSTMENTS UPWARD BY AS MUCH AS 0.010 WHERE CHANNEL FLOWS ARE FORCED THROUGH AN ABRUPT CHANGE IN DIRECTION.

OVERBANK N = 0.070 TO 0.080 DEPENDING ON DENSITY OF VEGETATION AND DEPTH OF FLOW. ADJUSTMENTS TO N MAY RANGE FROM NIL TO DESIGNATION OF SOME AREAS WHICH ONLY POND WATER AS INEFFECTIVE.

PHOTO 5: MORGAN CITY WASH NEAR UPSTREAM 1/3 POINT, LOOKING UPSTREAM. REACH OF WIDE FLOODPLAIN WITH VERY LITTLE ELEVATION RELIEF. THE VEGETATION IS MODERATE TO SPARSE ACROSS MOST OF THE FLOODPLAIN WITH NUMEROUS SMALL CHANNELS INTERSPERSED. THE CHANNEL WILL BE DEFINED FROM AERIAL PHOTOGRAPHY AS THE PRINCIPAL FLOWAGE AREA COMPRISING 10% TO 30% OF THE FLOODPLAIN WIDTH.

CHANNEL N = 0.035 TO 0.055 DEPENDING ON AMOUNT OF VEGETATION, NUMBER AND ALIGNMENT OF SMALL CHANNELS.

OVERBANK N = 0.050 TO 0.080 DEPENDING ON SAME FACTORS AS CHANNEL N.

PHOTO 1: MORGAN CITY WASH LOOKING DOWNSTREAM FROM NEW LAKE PLEASANT PARK ACCESS ROAD, CHANNEL WIDTH VARIES 40' TO 150'. MAIN CHANNEL INCLUDES GRAVEL BED AND 2' TO 5' HIGH SLOPES OF ADJACENT RAISED BAR AREAS. SLOPE VEGETATION VARIES FROM SPARSE GRASSES TO DENSE MESQUITE. OVERBANK HERE IS FAIRLY UNIFORM MODERATELY DENSE MESQUITE.

CHANNEL N = 0.040 TO 0.045 DEPENDS ON VARIABILITY OF ALIGNMENT AND SLOPE VEGETATION

OVERBANK N = 0.070

PHOTO 2: MORGAN CITY WASH LOOKING UPSTREAM FROM NEW LAKE PLEASANT PARK ACCESS ROAD, CHANNEL WIDTH VARIES 100' TO 150' INCLUDING BOTH CLEAR AND LIGHTLY VEGETATED GRAVEL BED. MAIN CHANNEL BANKS ARE AT THE TOP OF THE 2 TO 5' SLOPES ADJACENT TO CHANNEL. TOTAL FLOODPLAIN WIDTH AVERAGES 700' FOR OVER 1/2 MILE UPSTREAM. DENSE MESQUITE OCCUPIES MOST OF THE OVERBANK, BUT SECONDARY CHANNELS MAY BE SIGNIFICANT PROPORTION OF THE TOTAL WIDTH AT SOME SECTIONS.

CHANNEL N = 0.035 TO 0.040

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PHOTO 5: MORGAN CITY WASH NEAR UPSTREAM 1/3 POINT, LOOKING UPSTREAM. REACH OF WIDE FLOODPLAIN WITH VERY LITTLE ELEVATION RELIEF. THE VEGETATION IS MODERATE TO SPARSE ACROSS MOST OF THE FLOODPLAIN WITH NUMEROUS SMALL CHANNELS INTERSPERSED. THE CHANNEL WILL BE DEFINED FROM AERIAL PHOTOGRAPHY AS THE PRINCIPAL FLOWAGE AREA COMPRISING 10% TO 30% OF THE FLOODPLAIN WIDTH.

CHANNEL N = 0.035 TO 0.055 DEPENDING ON AMOUNT OF VEGETATION, NUMBER AND ALIGNMENT OF SMALL CHANNELS.

OVERBANK N = 0.050 TO 0.080 DEPENDING ON SAME FACTORS AS CHANNEL N.

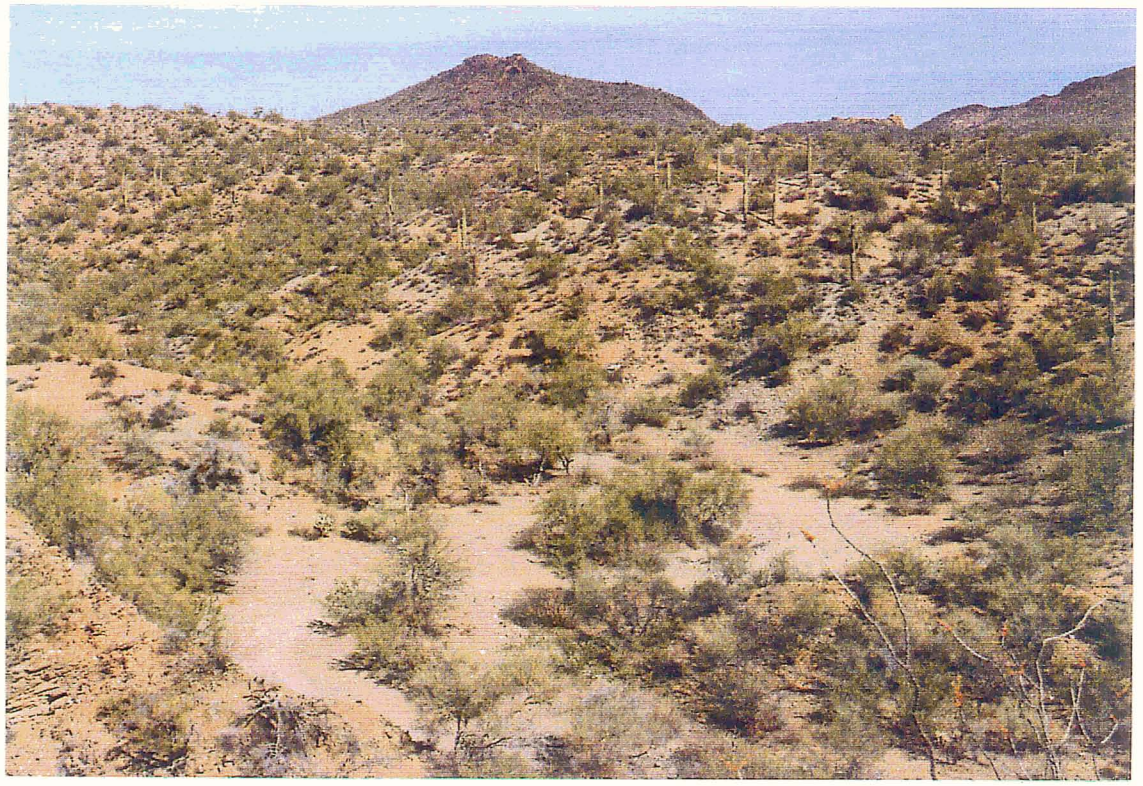

PHOTO 6: MORGAN CITY WASH AT UPSTREAM LIMIT OF STUDY REACH, LOOKING UPSTREAM. TYPICAL OF REACH WHERE FLOODPLAIN IS NARROWLY CONFINED. CHANNEL MAY OCCUPY MOST OF CANYON FLOOR WITH OVERBANK AREAS ON SIDE- HILL OR AS INEFFECTIVE PONDING AREAS DEFINED BY INTERSECTING DRAWS OR SMALL WASHES. ALIGNMENT SHOWN IS TYPICAL. CHANNEL LIMITS ARE 2' TO 4' UP SIDE-HILL.

CHANNEL N = 0.045 TO 0.055 DEPENDING ON VEGETATION AND ABRUPTNESS OF BENDS.

OVERBANK N = 0.060 AS SHOWN IN PHOTO AT BASE OF SIDE-HILLS, BUT VARY WIDELY THROUGH THE REACH WHICH EXTENDS 1 TO 2 MILES DOWNSTREAM.

PHOTO 7: MORGAN CITY WASH AT THE DOWNSTREAM END OF STUDY REACH, LOOKING UPSTREAM. RIPARIAN THICKET COMPLETELY OCCUPIES 15' DEEP CANYON FOR ONE MILE UPSTREAM. CHANNEL AND OVERBANK AREAS DEFINED SECTION BY SECTION FROM AERIAL PHOTOS AND TOPOGRAPHY MAPPING. OVERBANK IS PROBABLY LIMITED TO STEEP CANYON WALLS FOR MUCH OF THE REACH.

CHANNEL N = 0.10 AS SHOWN FOR THICKET.

OVERBANK N = VARIABLE ALONG REACH. FROM PHOTO OVERBANK IS NOT DISTINGUISHABLE FROM CHANNEL. IF DEPTH EXCEEDS 15' IN TRIAL RUNS, DESERT AREAS ATOP BLUFF WILL BE MODELED BY HORIZONTAL VARIATION OPTION.

April 1990

16923-HPH

Exhibit 5
Printout of Floodway Calculation
HEC-2 Input File
MC-FLDWY

MORGAN CITY WASH
FLOOD DELINEATION STUDY
FCD 89-15

Prepared for

Flood Control District
of
Maricopa County
D.E. Sagramoso,
Chief Engineer and General Manager

Submitted by

Michael Baker, Jr., Inc
Phoenix, Arizona

Exhibit 5
Printout of Floodway Calculation
HEC-2 Input File
MC-FLDWY

Morgan City Wash
Flood Delineation Study

for the
Flood Control District of Maricopa County
D.E. Sagramoso, Chief Engineer and General Manager

Michael Baker, Jr., Inc.
4105 North 20th Street, Suite 220
Phoenix, Arizona 85016

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*  WATER SURFACE PROFILES                           *
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*  UPDATED MAY 1984                                 *
*  IBM-PC-XT VERSION AUGUST 1985                    *
*  DATE  02-23-90   TIME  10:49:50                  *
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Baker Engineers 50 YEARS OF SERVICE

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*************************************
*  U.S. ARMY CORPS OF ENGINEERS
*  THE HYDROLOGIC ENGINEERING CENTER
*  609 SECOND STREET, SUITE D
*  DAVIS, CALIFORNIA 95616
*  (916) 440-2105 (FTS) 448-2105
*************************************
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MC-FPFW

02/23/90

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MORGAN CITY WASH FROM AGUA FRIA R. TO MARICOPA/YAVAPAI COUNTY LINE

PROFILE 1: NATURAL

PROFILE 2: ENCROACHED-TYPE 1

SUMPO: MC.FPFW-5

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****************************************
*              S U M P O               *
*     Interactive SUmmary PrintOut     *
*         for the IBM PC/XT/AT         *
*         January 1987 version         *
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MC-FPFW-5

MORGAN CITY WASH

SUMMARY PRINTOUT

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*	1.93	1551.31	19.49	110.41	9927.00	10037.41	111.00	0.00
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	2.21	1567.94	16.26	147.17	9887.66	10034.83	0.00	0.00
	2.21	1567.94	16.26	146.83	9888.00	10034.83	147.00	0.00
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	2.29	1573.14	14.78	151.60	9937.00	10088.60	152.00	0.00
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*	3.52	1686.41	3.43	455.33	9732.22	10187.55	0.00	0.00
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	3.57	1686.56	3.16	447.84	9795.69	10243.53	0.00	0.00
	3.57	1686.57	3.36	305.00	9840.00	10145.00	305.00	0.01
	3.67	1686.71	1.96	778.41	9589.83	10368.25	0.00	0.00
	3.67	1686.75	1.97	734.00	9591.00	10325.00	734.00	0.04
	3.76	1686.80	5.06	657.51	9702.80	10360.31	0.00	0.00
	3.76	1686.83	5.36	535.00	9825.00	10360.00	535.00	0.03
*	3.86	1691.15	13.48	400.21	9952.63	10352.84	0.00	0.00
*	3.86	1691.19	13.68	368.44	9952.56	10321.00	369.00	0.05
	3.95	1699.41	8.56	388.19	9798.29	10186.48	0.00	0.00
	3.95	1699.48	8.43	387.93	9798.07	10186.00	388.00	0.07
	4.05	1707.06	12.76	391.66	9604.00	10031.42	0.00	0.00
	4.05	1707.01	12.92	351.30	9680.00	10031.30	352.00	-0.05
	4.15	1715.80	14.95	259.36	9805.45	10064.81	0.00	0.00
	4.15	1715.83	14.88	259.77	9805.23	10065.00	260.00	0.03
	4.25	1723.34	12.83	364.05	9937.99	10302.04	0.00	0.00
*	4.25	1723.33	13.15	328.00	9938.00	10266.00	328.00	-0.02
	4.34	1730.01	15.16	273.44	9924.99	10198.43	0.00	0.00
	4.34	1730.10	15.10	251.17	9924.83	10176.00	252.00	0.09
	4.44	1737.84	16.20	184.99	9897.80	10082.79	0.00	0.00
	4.44	1737.83	16.22	184.77	9898.00	10082.77	185.00	-0.01
*	4.54	1748.11	15.65	238.81	9950.00	10188.81	0.00	0.00
*	4.54	1748.12	15.62	238.89	9950.00	10188.89	240.00	0.01
	4.63	1754.61	11.89	288.97	9841.18	10130.15	0.00	0.00
	4.63	1754.60	11.91	288.79	9841.21	10130.00	289.00	-0.01
*	4.73	1763.62	15.90	180.53	9930.21	10110.74	0.00	0.00
*	4.73	1763.62	15.89	180.55	9930.20	10110.75	181.00	0.00
*	4.82	1772.30	15.44	230.54	9806.68	10037.22	0.00	0.00
*	4.82	1772.31	15.42	230.38	9806.62	10037.00	231.00	0.01
*	4.92	1780.01	16.16	204.39	9955.83	10160.22	0.00	0.00
*	4.92	1780.01	16.16	204.23	9956.00	10160.23	205.00	0.00
*	5.04	1788.33	15.85	260.89	9770.73	10031.61	0.00	0.00
*	5.04	1788.34	15.82	261.04	9770.60	10031.63	262.00	0.01
*	5.16	1797.65	15.30	210.29	9973.49	10183.78	0.00	0.00
*	5.16	1797.66	15.29	210.32	9973.49	10183.81	212.00	0.00
	5.25	1805.98	13.42	227.91	9854.98	10082.89	0.00	0.00
	5.25	1805.98	13.42	227.87	9855.00	10082.87	228.00	0.00
*	5.33	1814.16	18.80	125.67	9902.74	10028.42	0.00	0.00
*	5.33	1814.16	18.79	125.68	9902.74	10028.42	127.00	0.00

*	5.43	1822.20	17.33	145.67	9946.73	10092.40	0.00	0.00
*	5.43	1822.22	17.27	145.78	9946.67	10092.45	147.00	0.02
	5.53	1829.69	17.81	152.63	9896.34	10048.97	0.00	0.00
	5.53	1829.64	17.88	152.50	9896.39	10048.89	153.00	-0.04
	5.62	1837.30	12.07	255.54	9928.14	10183.68	0.00	0.00
	5.62	1837.32	12.04	255.61	9928.10	10183.72	256.00	0.02
	5.73	1843.41	14.42	295.44	9830.20	10125.63	0.00	0.00
	5.73	1843.41	14.44	295.38	9830.21	10125.58	296.00	0.00
*	5.81	1852.26	18.82	155.59	9871.55	10027.13	0.00	0.00
*	5.81	1852.26	18.81	155.46	9871.54	10027.00	156.00	0.00
*	5.91	1858.73	15.54	123.01	9962.26	10085.27	0.00	0.00
*	5.91	1858.74	15.51	122.76	9962.24	10085.00	123.00	0.01
	6.01	1866.92	9.26	413.74	9725.58	10139.32	0.00	0.00
	6.01	1866.91	9.27	413.00	9726.00	10139.00	413.00	-0.01
*	6.09	1873.70	16.31	165.50	9922.88	10088.38	0.00	0.00
*	6.09	1873.74	16.20	165.00	9923.00	10088.00	165.00	0.04
*	6.14	1878.89	16.19	126.89	9976.37	10103.25	0.00	0.00
*	6.14	1878.89	16.17	126.64	9976.36	10103.00	127.00	0.01
	6.23	1886.41	7.50	333.62	9892.21	10225.83	0.00	0.00
	6.23	1886.40	7.50	333.61	9892.21	10225.82	334.00	0.00
*	6.32	1892.36	17.68	189.11	9982.36	10171.47	0.00	0.00
*	6.32	1892.36	17.68	188.64	9982.36	10171.00	189.00	0.00
*	6.39	1900.43	17.95	96.24	9961.59	10057.83	0.00	0.00
*	6.39	1900.44	17.93	95.84	9962.00	10057.84	96.00	0.01
	6.45	1907.38	6.41	344.08	9961.21	10305.29	0.00	0.00
	6.45	1907.48	7.50	238.89	9961.11	10200.00	239.00	0.09
*	6.51	1909.84	18.58	204.52	9976.29	10180.82	0.00	0.00
*	6.51	1909.85	18.85	183.71	9976.28	10160.00	184.00	0.01
	6.62	1917.18	13.79	272.25	9784.58	10056.82	0.00	0.00
	6.62	1917.34	13.44	272.00	9785.00	10057.00	272.00	0.16
*	6.71	1922.53	15.43	373.37	9748.76	10122.14	0.00	0.00
*	6.71	1922.54	15.46	366.31	9748.69	10115.00	367.00	0.02
*	6.80	1930.66	13.54	314.87	9788.96	10103.84	0.00	0.00
*	6.80	1930.70	13.62	301.00	9789.00	10090.00	301.00	0.05
	6.90	1939.12	13.51	303.77	9750.28	10054.05	0.00	0.00
	6.90	1939.17	13.36	303.89	9750.11	10054.00	304.00	0.05
*	6.99	1949.79	16.61	143.31	9964.67	10107.98	0.00	0.00
*	6.99	1949.79	16.60	142.98	9965.00	10107.98	143.00	0.01
	7.11	1958.73	8.19	466.84	9829.99	10296.83	0.00	0.00
	7.11	1958.73	8.20	466.79	9830.01	10296.80	467.00	0.00
*	7.20	1966.12	15.50	215.12	9928.55	10176.38	0.00	0.00
*	7.20	1966.12	15.50	214.27	9929.00	10176.00	247.00	0.00
	7.30	1974.39	10.78	291.57	9887.53	10179.10	0.00	0.00
	7.30	1974.39	10.78	291.00	9888.00	10179.00	291.00	0.00

*	7.40	1981.59	13.98	286.60	9885.16	10171.76	0.00	0.00
*	7.40	1981.59	13.96	286.65	9885.16	10171.81	287.00	0.01
*	7.49	1991.43	15.16	174.81	9942.22	10117.04	0.00	0.00
*	7.49	1991.43	15.14	174.79	9942.21	10117.00	175.00	0.01
	7.58	1999.26	12.76	231.13	9915.39	10146.52	0.00	0.00
	7.58	1999.25	12.78	231.09	9915.39	10146.48	232.00	-0.01
*	7.67	2006.69	15.40	156.31	9924.72	10081.03	0.00	0.00
*	7.67	2006.71	15.34	156.00	9925.00	10081.00	156.00	0.02
*	7.75	2015.81	16.85	104.00	9962.63	10066.64	0.00	0.00
*	7.75	2015.81	16.86	103.63	9963.00	10066.63	104.00	0.00
	7.80	2022.61	8.19	227.99	9852.06	10080.05	0.00	0.00
	7.80	2022.61	8.19	227.94	9852.06	10080.00	228.00	0.00
*	7.89	2028.69	15.21	209.15	9925.57	10134.72	0.00	0.00
*	7.89	2028.69	15.20	208.72	9926.00	10134.72	209.00	0.00
	8.00	2040.56	12.30	319.59	9788.99	10108.59	0.00	0.00
	8.00	2040.58	12.46	284.00	9824.00	10108.00	284.00	0.01
	8.10	2049.18	13.36	309.04	9969.98	10279.01	0.00	0.00
	8.10	2049.22	13.24	309.00	9970.00	10279.00	309.00	0.04
	8.19	2058.62	11.62	393.89	9921.47	10315.37	0.00	0.00
	8.19	2058.64	11.95	369.00	9946.00	10315.00	369.00	0.02
*	8.28	2067.49	12.82	311.11	9923.70	10234.82	0.00	0.00
*	8.28	2067.56	13.05	282.00	9924.00	10206.00	282.00	0.06
	8.38	2076.93	7.67	491.52	9784.30	10275.82	0.00	0.00
	8.38	2077.18	8.08	430.88	9784.12	10215.00	431.00	0.25
	8.47	2085.84	12.29	304.64	9841.48	10146.11	0.00	0.00
	8.47	2085.91	12.06	304.76	9841.24	10146.00	305.00	0.07
	8.57	2095.68	12.08	290.72	9877.51	10168.23	0.00	0.00
	8.57	2095.61	12.26	290.21	9877.71	10167.92	291.00	-0.07
	8.67	2104.71	12.29	271.37	9869.74	10141.10	0.00	0.00
	8.67	2104.75	12.19	271.00	9870.00	10141.00	271.00	0.04
	8.74	2111.12	6.36	546.18	9690.64	10236.82	0.00	0.00
	8.74	2111.31	6.98	477.00	9760.00	10237.00	477.00	0.19
*	8.86	2122.20	11.88	369.75	9824.59	10194.34	0.00	0.00
*	8.86	2122.20	11.88	369.41	9824.59	10194.00	370.00	0.00
	8.96	2133.25	7.77	378.31	9871.78	10250.09	0.00	0.00
	8.96	2133.24	7.76	378.00	9872.00	10250.00	378.00	-0.01
*	9.05	2142.16	10.50	286.77	9880.35	10167.12	0.00	0.00
*	9.05	2142.16	10.48	286.65	9880.35	10167.00	287.00	0.01
	9.15	2153.74	10.25	224.96	9949.05	10174.01	0.00	0.00
	9.15	2153.73	10.27	224.94	9949.06	10174.00	225.00	-0.01
	9.24	2164.21	9.02	317.32	9902.84	10220.16	0.00	0.00
	9.24	2164.21	9.01	317.00	9903.00	10220.00	317.00	0.00
	9.33	2173.40	11.58	191.52	9901.97	10093.49	0.00	0.00
	9.33	2173.39	11.60	191.00	9902.00	10093.00	191.00	-0.01

	9.40	2182.11	10.03	246.07	9867.00	10113.07	249.00	0.00
	9.40	2182.12	10.01	246.00	9867.00	10113.00	246.00	0.01
*	9.50	2194.67	11.35	330.36	9797.48	10127.85	0.00	0.00
*	9.50	2194.77	11.53	301.75	9797.25	10099.00	302.00	0.10
	9.59	2205.74	8.30	353.34	9830.80	10184.14	0.00	0.00
	9.59	2205.77	8.22	353.00	9831.00	10184.00	353.00	0.03
*	9.66	2213.83	11.80	271.32	9917.97	10189.29	0.00	0.00
*	9.66	2213.83	11.79	271.00	9918.00	10189.00	271.00	0.00
*	9.76	2225.91	10.47	312.44	9796.26	10108.70	0.00	0.00
*	9.76	2225.92	10.45	312.46	9796.25	10108.71	313.00	0.00
	9.87	2237.79	8.87	430.94	9896.28	10327.22	0.00	0.00
	9.87	2237.89	9.23	368.75	9896.25	10265.00	369.00	0.09
*	9.97	2249.41	11.54	441.56	9776.36	10217.92	0.00	0.00
*	9.97	2249.47	11.86	375.74	9776.26	10152.00	376.00	0.06
*	10.06	2261.02	11.52	215.86	9863.66	10079.52	0.00	0.00
*	10.06	2261.02	11.52	215.52	9864.00	10079.52	216.00	0.00
	10.16	2272.67	10.98	233.34	9925.39	10158.73	0.00	0.00
	10.16	2272.68	10.99	233.32	9925.40	10158.72	234.00	0.00
*	10.27	2282.44	14.45	215.60	9952.52	10168.11	0.00	0.00
*	10.27	2282.44	14.44	215.00	9953.00	10168.00	215.00	0.00
*	10.35	2292.68	13.02	187.25	9946.94	10134.20	0.00	0.00
*	10.35	2292.69	13.02	187.00	9947.00	10134.00	187.00	0.00
*	10.44	2303.57	12.81	185.22	9856.02	10041.23	0.00	0.00
*	10.44	2303.58	12.79	185.00	9856.00	10041.00	185.00	0.00
*	10.57	2320.18	11.86	181.71	9890.17	10071.87	0.00	0.00
*	10.57	2320.18	11.84	181.75	9890.15	10071.90	182.00	0.01
*	10.67	2333.19	11.02	189.96	9892.06	10082.01	0.00	0.00
*	10.67	2333.20	11.01	189.95	9892.05	10082.00	190.00	0.00
*	10.75	2342.67	11.52	131.95	9919.19	10051.14	0.00	0.00
*	10.75	2342.68	11.49	131.83	9919.17	10051.00	132.00	0.01
*	10.85	2354.59	12.56	96.36	9968.10	10064.46	0.00	0.00
*	10.85	2354.62	12.48	95.96	9968.04	10064.00	96.00	0.03
*	10.95	2368.94	15.59	117.26	9920.72	10037.97	0.00	0.00
*	10.95	2369.17	14.78	117.00	9921.00	10038.00	117.00	0.23
*	11.05	2379.88	14.30	78.10	9947.63	10025.74	0.00	0.00
*	11.05	2379.89	14.27	77.75	9948.00	10025.75	78.00	0.01
*	11.15	2394.96	12.59	98.87	9949.36	10048.23	0.00	0.00
*	11.15	2394.98	12.55	98.67	9949.33	10048.00	99.00	0.01
	11.27	2412.40	11.91	88.33	9973.61	10061.94	0.00	0.00
	11.27	2412.37	11.93	87.92	9974.00	10061.92	88.00	-0.02
*	11.35	2425.16	13.40	87.99	9937.50	10025.48	0.00	0.00
*	11.35	2425.15	13.41	87.00	9938.00	10025.00	87.00	-0.01
	11.43	2439.18	11.38	85.20	9939.29	10024.49	0.00	0.00
	11.43	2439.19	11.36	84.72	9939.28	10024.00	85.00	0.00

*	11.53	2451.54	12.31	109.93	9952.18	10062.11	0.00	0.00
*	11.53	2451.53	12.34	109.80	9952.20	10062.00	110.00	-0.01
*	11.64	2467.06	13.52	84.41	9941.71	10026.11	0.00	0.00
*	11.64	2467.03	13.59	84.00	9942.00	10026.00	84.00	-0.03
	11.71	2476.47	12.45	139.24	9953.08	10092.32	0.00	0.00
	11.71	2476.50	12.43	123.00	9969.00	10092.00	123.00	0.03
*	11.81	2492.09	14.42	72.16	9956.50	10028.67	0.00	0.00
*	11.81	2492.09	14.42	72.16	9956.50	10028.67	73.00	0.00
*	11.91	2505.27	13.26	98.44	9942.14	10040.58	0.00	0.00
*	11.91	2505.29	13.21	98.55	9942.08	10040.63	99.00	0.02
*	12.02	2519.85	12.37	126.77	9922.35	10049.12	0.00	0.00
*	12.02	2519.88	12.28	126.71	9922.29	10049.00	127.00	0.03

THIS RUN EXECUTED 02-23-90

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
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C
T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY      01/29/90  FILE:  MC-FPFW
T2      100-YEAR FLOOD DELINEATION STUDY ***EXISTING CONDITIONS***
T3      MORGAN CITY WASH         GUA FRIA RIVER TO MARICOPA/YAVAPAI COUNTY LINE

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        2.        0.        0.   .000000       .00        .0        0.  1420.100      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

     1.000      .000    -1.000      .000      .000      .000    -1.000      .000      .000    15.000

J3  VARIABLE CODES FOR SUMMARY PRINTOUT

    150.000   110.000   200.000      .000      .000      .000      .000      .000      .000      .000


NC       .085       .085       .065       .400       .800       .000       .000       .000       .000       .000
QT      2.000  14400.000  14400.000       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9898.000  10142.000       .000       .000       .000       .000       .000
X1       .141      37.000   9979.900  10009.400       .000       .000       .000       .000       .000       .000
GR   1424.000   9680.000   1423.500   9697.000   1423.000   9714.000   1422.000   9730.000   1420.000   9770.000
GR   1418.400   9785.900   1416.300   9790.100   1415.300   9818.600   1414.500   9832.700   1414.100   9842.800
GR   1414.500   9848.600   1413.300   9866.800   1412.700   9879.300   1411.000   9896.100   1409.600   9912.300
GR   1406.000   9919.200   1404.700   9924.200   1405.500   9938.400   1407.100   9947.800   1404.300   9958.300
GR   1404.000   9969.600   1406.700   9976.800   1398.100   9979.900   1398.400   9985.900   1397.900  10000.000
GR   1402.300  10009.400   1403.300  10028.100   1409.100  10036.200   1409.800  10057.700   1410.900  10067.000
GR   1410.500  10077.500   1411.300  10096.100   1412.100  10110.700   1415.800  10126.800   1422.000  10150.000
GR   1422.000  10200.000   1424.000  10210.000       .000       .000       .000       .000       .000       .000

ET       .000       .000      4.100   9872.000  10165.000       .000       .000       .000       .000       .000
X1       .161      12.000   9978.800  10021.300     125.000     70.000     104.000       .000       .000       .000
X3     10.000       .000       .000       .000       .000       .000       .000   1421.000   1421.000       .000
GR   1427.000   9840.000   1420.000   9880.000   1413.000   9920.000   1412.800   9978.800   1402.800   9978.800
GR   1402.800  10021.300   1412.800  10021.300   1413.000  10120.000   1415.000  10145.000   1420.000  10240.000
GR   1424.000  10275.000   1425.000  10278.000       .000       .000       .000       .000       .000       .000

SB      1.250      1.560      2.700       .000     42.500      2.500    400.000       .000   1403.600   1402.800
ET       .000       .000      4.100   9868.000  10150.000       .000       .000       .000       .000       .000
X1       .177      13.000   9978.800  10021.300      88.000     88.000      88.000       .000       .000       .000
X2       .000       .000      1.000   1413.600   1422.000       .000       .000       .000       .000       .000
X3     10.000       .000       .000       .000       .000       .000       .000   1422.000   1422.000       .000
BT     11.000   9840.000   1431.000   1431.000   9890.000   1428.000   1423.000   9965.000   1424.000   1415.000
BT   9978.800   1423.000   1413.600  10021.300   1422.500   1413.600  10060.000   1422.000   1415.000  10225.000
BT   1422.000   1422.000  10240.000   1422.000   1422.000  10275.000   1424.000   1424.000  10280.000   1428.000
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BT	1428.000	10290.000	1432.000	1432.000	.000	.000	.000	.000	.000	.000
GR	[illegible]1.000	9840.000	1423.000	9890.000	1415.000	9965.000	1413.600	9978.800	1403.600	9978.800
GR	[illegible]3.600	10021.300	1413.600	10021.300	1415.000	10060.000	1422.000	10225.000	1422.000	10240.000
GR	1424.000	10275.000	1428.000	10280.000	1432.000	10290.000	.000	.000	.000	.000
ET	.000	.000	4.100	9884.000	10114.000	.000	.000	.000	.000	.000
	OLD LAKE PLEASANT ACCESS RD APPX RM. 0.169									
X1	.187	27.000	9989.500	10069.000	31.000	71.000	51.000	.000	.000	.000
GR	1433.400	9847.200	1432.500	9851.700	1431.500	9856.100	1430.600	9860.600	1427.400	9881.900
GR	1424.100	9892.700	1421.300	9904.200	1418.400	9916.400	1413.300	9930.300	1412.900	9940.000
GR	1409.300	9957.000	1408.600	9965.000	1408.300	9978.100	1407.200	9989.500	1405.100	10000.000
GR	1404.400	10017.700	1402.900	10030.300	1402.900	10034.500	1406.000	10045.000	1406.400	10051.200
GR	1406.800	10060.000	1407.500	10069.000	1413.800	10080.500	1419.900	10089.900	1424.800	10105.200
GR	1428.600	10122.800	1432.100	10139.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.100	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9950.000	10064.000	.000	.000	.000	.000	.000
X1	.278	14.000	9965.000	10046.500	492.000	465.000	484.000	.000	.000	.000
GR	1444.800	9925.400	1438.700	9937.300	1430.000	9948.000	1420.800	9953.800	1416.300	9965.000
GR	1411.300	9980.400	1409.900	9988.300	1410.200	10000.000	1418.700	10046.500	1427.100	10062.500
GR	1431.700	10076.200	1434.100	10097.100	1436.100	10112.900	1434.100	10136.700	.000	.000
ET	.000	.000	4.100	9909.000	10025.000	.000	.000	.000	.000	.000
X1	.375	29.000	9965.600	9990.700	500.000	518.000	509.000	.000	.000	.000
GR	1457.200	9832.100	1456.300	9859.100	1454.800	9866.900	1452.700	9873.700	1447.300	9884.800
GR	1444.800	9898.700	1442.200	9905.500	1433.100	9921.600	1425.200	9926.300	1428.900	9932.700
GR	1429.700	9937.300	1438.000	9948.700	1439.200	9952.500	1433.900	9961.000	1428.700	9965.600
GR	1428.200	9971.100	1424.700	9981.200	1419.000	9984.800	1416.600	9990.700	1439.700	10010.100
GR	1442.200	10020.300	1439.800	10024.400	1447.300	10033.700	1451.800	10049.800	1453.700	10065.400
GR	[illegible]55.500	10084.500	1457.300	10097.900	1457.600	10115.800	1455.500	10124.900	.000	.000
NC	.100	.100	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9953.000	10259.000	.000	.000	.000	.000	.000
X1	.460	11.000	9978.100	10240.500	418.000	510.000	445.000	.000	.000	.000
GR	1468.600	9880.400	1467.900	9902.300	1464.900	9917.500	1436.700	9978.100	1428.200	10000.000
GR	1441.300	10161.900	1441.200	10180.200	1440.300	10220.300	1443.300	10240.500	1449.700	10264.900
GR	1452.600	10276.700	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9951.000	10137.000	.000	.000	.000	.000	.000
X1	.548	10.000	9958.300	10128.700	516.000	268.000	468.000	.000	.000	.000
GR	1459.900	9935.200	1458.000	9938.400	1456.100	9941.600	1454.200	9944.800	1448.300	9958.300
GR	1443.900	9962.900	1441.900	10000.000	1441.800	10018.800	1446.900	10128.700	1460.900	10152.200
ET	.000	.000	4.100	9889.000	10081.000	.000	.000	.000	.000	.000
X1	.643	16.000	9904.400	10066.800	440.000	520.000	502.000	.000	.000	.000
GR	1476.100	9795.300	1472.600	9818.300	1471.600	9838.200	1468.200	9853.900	1465.400	9860.000
GR	1465.300	9867.800	1466.600	9877.900	1461.600	9890.500	1459.800	9896.500	1456.600	9904.400
GR	1454.200	9914.600	1451.100	9922.200	1449.200	10000.000	1453.700	10066.800	1465.800	10087.200
GR	1472.000	10096.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	4.100	9910.000	10148.000	.000	.000	.000	.000	.000
X1	.711	15.000	9913.900	10057.600	335.000	370.000	360.000	.000	.000	.000
GR	1493.200	9845.500	1477.000	9893.000	1464.100	9913.900	1454.000	9944.700	1454.000	10000.000
GR	1453.900	10019.400	1456.600	10040.000	1458.900	10057.600	1462.300	10073.800	1462.200	10088.700
GR	1463.700	10114.700	1464.100	10138.000	1468.900	10156.800	1477.900	10196.700	1479.400	10204.000
ET	.000	.000	4.100	9936.000	10111.000	.000	.000	.000	.000	.000
X1	.806	12.000	9966.400	10077.200	550.000	480.000	504.000	.000	.000	.000
GR	1480.000	9905.000	1478.000	9915.000	1476.000	9924.000	1475.400	9927.000	1465.900	9966.400
GR	1458.500	9984.600	1458.500	10000.000	1459.600	10027.200	1460.900	10060.900	1465.100	10077.200
GR	1474.600	10116.500	1479.000	10130.200	.000	.000	.000	.000	.000	.000
NC	.070	.075	.035	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9852.000	10137.000	.000	.000	.000	.000	.000
X1	.950	11.000	9893.700	10120.400	740.000	800.000	757.000	.000	.000	.000
GR	1484.700	9811.800	1473.100	9893.700	1470.800	10000.000	1468.400	10018.100	1472.500	10031.600
GR	1475.300	10069.700	1476.100	10097.600	1476.000	10120.400	1476.500	10132.200	1481.700	10142.200
GR	1484.300	10157.900	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.100	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9820.000	10042.000	.000	.000	.000	.000	.000
X1	1.010	13.000	9834.200	10038.600	470.000	255.000	318.000	.000	.000	.000
GR	1488.900	9785.200	1487.000	9795.000	1486.000	9800.000	1485.000	9810.000	1481.100	9834.200
GR	1480.200	9842.700	1478.100	9941.500	1475.900	9985.200	1476.000	10000.000	1475.000	10012.300
GR	1476.300	10022.300	1481.000	10038.600	1490.000	10049.000	.000	.000	.000	.000
ET	.000	.000	4.100	9956.000	10085.000	.000	.000	.000	.000	.000
X1	1.110	13.000	9961.900	10054.500	483.000	550.000	524.000	.000	.000	.000
GR	97.000	9943.000	1496.000	9945.000	1495.000	9948.000	1494.500	9953.200	1484.800	9961.900
GR	83.100	9974.300	1482.400	9989.800	1482.000	10000.000	1482.700	10036.300	1484.700	10054.500
GR	1486.900	10075.700	1495.400	10092.500	1497.000	10120.000	.000	.000	.000	.000
ET	.000	.000	4.100	9923.000	10027.000	.000	.000	.000	.000	.000
X1	1.210	13.000	9959.300	10018.700	500.000	522.000	519.000	.000	.000	.000
GR	1506.000	9869.500	1506.100	9880.400	1505.700	9893.900	1503.800	9910.100	1500.800	9918.200
GR	1491.000	9935.700	1489.200	9943.300	1488.500	9959.300	1487.100	9978.300	1486.900	9989.300
GR	1487.300	10000.000	1486.800	10018.700	1500.200	10028.800	.000	.000	.000	.000
ET	.000	.000	4.100	9969.000	10106.000	.000	.000	.000	.000	.000
X1	1.300	13.000	9976.200	10017.000	485.000	501.000	491.000	.000	.000	.000
GR	1509.200	9967.100	1500.400	9971.700	1491.600	9976.200	1491.600	9985.300	1492.200	10000.000
GR	1492.700	10017.000	1494.600	10031.000	1495.600	10034.400	1497.900	10051.800	1498.500	10068.500
GR	1499.600	10087.800	1500.200	10091.200	1508.700	10116.500	.000	.000	.000	.000
NC	.075	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9853.000	10062.000	.000	.000	.000	.000	.000
	BOUNDARY SECTION LINE 19/20, T6N; R1E APPX RM. 1.323									
X1	1.384	22.000	9968.500	10024.000	525.000	385.000	442.000	.000	.000	.000
GR	1525.600	9796.100	1520.100	9822.100	1517.200	9839.700	1510.700	9855.300	1508.000	9868.300
GR	1504.400	9888.000	1505.000	9898.000	1504.700	9910.100	1504.000	9929.000	1502.200	9944.800
GR	1500.200	9957.300	1499.400	9968.500	1498.200	9972.800	1498.100	9983.100	1498.200	10000.000
GR	1497.200	10024.000	1503.400	10039.100	1514.300	10069.500	1515.900	10089.400	1516.100	10096.400
GR	1516.400	10109.300	1517.200	10120.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	4.100	9948.000	10062.000	.000	.000	.000	.000	.000
X1	1.477	18.000	9969.300	10019.500	440.000	500.000	489.000	.000	.000	.000
GR	1530.400	9811.400	1527.500	9830.200	1525.000	9848.600	1524.800	9863.200	1524.800	9878.500
GR	1523.900	9894.300	1523.300	9905.400	1522.700	9923.300	1523.100	9939.100	1511.600	9953.400
GR	1504.000	9969.300	1503.900	9979.400	1504.100	10000.000	1504.000	10019.500	1505.500	10031.700
GR	1510.700	10052.100	1514.500	10061.100	1530.000	10070.000	.000	.000	.000	.000
NC	.000	.070	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9905.000	10060.000	.000	.000	.000	.000	.000
X1	1.574	14.000	9964.600	10038.800	460.000	540.000	512.000	.000	.000	.000
GR	1526.100	9888.500	1525.000	9895.000	1523.000	9900.000	1521.900	9905.700	1517.400	9932.900
GR	1513.100	9936.200	1514.100	9946.200	1512.400	9964.600	1511.700	9973.400	1511.300	10000.000
GR	1511.700	10017.200	1511.000	10038.800	1521.200	10058.500	1525.000	10065.000	.000	.000
ET	.000	.000	4.100	9952.000	10099.000	.000	.000	.000	.000	.000
X1	1.658	14.000	9961.500	10054.100	438.000	452.000	445.000	.000	.000	.000
GR	1532.000	9945.000	1528.000	9950.000	1524.000	9954.000	1520.000	9957.000	1515.600	9961.500
GR	1516.300	9976.800	1517.600	9989.100	1517.700	10000.000	1517.200	10023.200	1517.700	10043.300
GR	1517.400	10054.100	1521.300	10075.300	1522.300	10095.200	1532.900	10106.600	.000	.000
ET	.000	.000	4.100	9866.000	10074.000	.000	.000	.000	.000	.000
X1	1.750	19.000	9953.000	10044.500	540.000	425.000	487.000	.000	.000	.000
GR	1538.000	9855.000	1535.000	9860.000	1534.100	9863.900	1526.400	9877.300	1525.000	9890.400
GR	1524.400	9903.300	1523.500	9911.100	1524.100	9927.100	1527.500	9941.400	1527.600	9953.000
GR	1525.500	9977.600	1524.700	9992.600	1524.000	10000.000	1524.600	10020.700	1526.900	10032.300
GR	1526.600	10044.500	1525.800	10054.000	1532.800	10074.100	1538.600	10089.000	.000	.000
NC	.080	.000	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9945.000	10068.000	.000	.000	.000	.000	.000
X1	1.831	16.000	9987.000	10038.500	450.000	340.000	428.000	.000	.000	.000
GR	1554.300	9880.500	1553.200	9892.600	1552.300	9907.000	1550.300	9917.500	1546.300	9929.100
GR	1543.100	9939.400	1538.500	9961.400	1535.200	9970.400	1531.300	9987.000	1529.700	9992.600
GR	1529.700	10000.000	1529.700	10024.900	1532.100	10038.500	1536.400	10057.800	1547.500	10079.000
GR	1562.800	10112.700	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9927.000	10038.000	.000	.000	.000	.000	.000
	M-13 TRIBUTARY APPX RM 1.852									
X1	1.926	16.000	9983.900	10026.200	515.000	496.000	500.000	.000	.000	.000
GR	1556.800	9913.800	1554.000	9920.000	1552.000	9925.000	1550.000	9930.000	1549.300	9931.300
GR	1547.000	9941.700	1547.100	9952.100	1545.600	9964.700	1542.900	9974.300	1537.400	9983.900
GR	1536.400	9994.100	1535.900	10000.000	1535.300	10009.600	1540.500	10026.200	1546.200	10033.500
GR	1556.000	10041.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9925.000	10032.000	.000	.000	.000	.000	.000
X1	2.014	16.000	9967.100	10005.800	385.000	485.000	462.000	.000	.000	.000
GR	1565.900	9915.100	1562.000	9920.000	1560.000	9925.000	1551.400	9932.400	1549.100	9947.500
GR	1547.700	9953.700	1546.600	9967.100	1544.500	9976.700	1544.900	9988.600	1543.800	9993.400
GR	1543.400	10000.000	1544.200	10005.800	1548.000	10017.700	1551.100	10026.600	1559.100	10033.800
GR	1564.000	10037.000	.000	.000	.000	.000	.000	.000	.000	.000

ET	.000	.000	4.100	9932.000	10078.000	.000	.000	.000	.000	.000
X1	2.114	19.000	9969.100	10043.900	540.000	485.000	529.000	.000	.000	.000
GR	1573.400	9919.300	1567.400	9927.600	1560.700	9936.200	1557.500	9948.300	1555.700	9957.700
GR	1552.800	9969.100	1551.600	9973.200	1551.900	9987.000	1552.300	10000.000	1552.500	10018.100
GR	1551.800	10030.300	1554.500	10043.900	1557.300	10058.700	1558.900	10069.000	1564.600	10079.300
GR	1574.700	10095.300	1578.000	10110.300	1578.800	10125.300	1579.800	10154.900	.000	.000
NC	.000	.065	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9888.000	10035.000	.000	.000	.000	.000	.000
X1	2.209	21.000	9950.100	10025.700	510.000	490.000	503.000	.000	.000	.000
GR	1584.200	9846.500	1582.000	9856.500	1573.800	9867.900	1567.100	9890.500	1565.200	9896.000
GR	1563.800	9911.700	1562.900	9926.200	1561.800	9937.200	1559.700	9944.300	1558.600	9950.100
GR	1557.700	9958.600	1557.700	9968.400	1557.700	9971.500	1559.700	9979.800	1559.700	9986.500
GR	1557.800	10000.000	1557.200	10007.900	1557.700	10025.700	1582.700	10048.000	1586.800	10065.300
GR	1589.900	10078.400	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9937.000	10089.000	.000	.000	.000	.000	.000
X1	2.287	19.000	9956.700	10038.700	372.000	500.000	413.000	.000	.000	.000
GR	1580.900	9923.900	1580.000	9925.000	1578.000	9930.000	1576.000	9932.000	1574.000	9934.000
GR	1573.400	9936.400	1569.300	9945.300	1564.600	9956.700	1563.200	9965.700	1563.400	9975.500
GR	1562.900	9985.900	1562.100	10000.000	1562.100	10013.600	1563.800	10024.100	1565.500	10038.700
GR	1567.300	10050.500	1567.100	10073.200	1572.500	10088.000	1580.000	10095.000	.000	.000
NC	.000	.070	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9901.000	10144.000	.000	.000	.000	.000	.000
	BOUNDARY SECTION 19/24, T6N; R1E/R1W APPX RM. 2.465									
X1	2.391	27.000	9974.500	10049.500	550.000	485.000	545.000	.000	.000	.000
GR	1604.900	9832.400	1603.000	9840.500	1594.900	9851.000	1589.900	9862.400	1588.500	9876.500
GR	1586.500	9887.700	1579.600	9901.300	1576.000	9902.900	1576.600	9910.900	1576.700	9922.200
GR	1574.700	9945.300	1575.300	9956.900	1576.100	9969.600	1575.000	9974.500	1569.300	9987.400
GR	1568.800	10000.000	1569.900	10011.700	1571.300	10033.500	1572.300	10049.500	1572.500	10067.500
GR	1573.900	10092.000	1574.700	10107.300	1575.900	10120.700	1577.400	10132.300	1577.100	10141.200
GR	1594.100	10165.600	1597.900	10182.100	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9890.000	10052.000	.000	.000	.000	.000	.000
X1	2.476	16.000	9974.000	10030.500	444.000	448.000	449.000	.000	.000	.000
GR	1599.000	9835.100	1595.800	9869.300	1592.000	9880.900	1585.800	9892.200	1581.300	9905.400
GR	1580.800	9922.700	1580.100	9935.500	1581.600	9957.700	1580.800	9974.000	1575.500	9988.900
GR	1575.100	10000.000	1575.900	10030.500	1586.300	10047.300	1591.300	10083.000	1596.200	10108.500
GR	1602.000	10127.800	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9971.000	10080.000	.000	.000	.000	.000	.000
X1	2.577	14.000	9987.900	10067.100	500.000	536.000	532.000	.000	.000	.000
GR	1612.400	9810.100	1611.400	9816.700	1610.900	9836.800	1611.300	9883.000	1610.600	9916.800
GR	1610.300	9937.500	1608.200	9945.700	1583.300	9987.900	1583.100	10000.000	1582.900	10030.700
GR	1582.100	10045.200	1587.800	10067.100	1602.200	10100.800	1609.300	10139.300	.000	.000
NC	.085	.075	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9884.000	10129.000	.000	.000	.000	.000	.000

X1	2.679	30.000	9974.600	10047.800	564.000	488.000	537.000	.000	.000	.000
GR	.100	9732.700	1631.800	9761.800	1629.300	9797.100	1625.200	9831.500	1622.800	9847.200
GR	1620.700	9856.500	1619.400	9863.200	1618.300	9867.500	1616.600	9878.400	1614.000	9879.100
GR	1593.300	9887.400	1592.900	9896.200	1593.400	9909.300	1593.600	9924.800	1592.700	9932.000
GR	1591.500	9937.400	1591.600	9946.000	1594.700	9962.800	1595.400	9974.600	1593.800	9986.000
GR	1593.700	10000.000	1593.200	10010.000	1592.100	10018.500	1592.700	10029.900	1592.500	10047.800
GR	1599.700	10071.600	1601.000	10085.700	1600.600	10096.000	1600.400	10117.800	1611.400	10168.700
NC	.070	.070	.000	.000	.000	.000	.000	.000	.000	.000
QT	2.000	14200.000	14200.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9911.000	10068.000	.000	.000	.000	.000	.000
X1	2.764	19.000	9975.700	10030.400	532.000	360.000	451.000	.000	.000	.000
GR	1621.800	9878.200	1609.900	9900.600	1605.500	9921.400	1600.900	9935.600	1600.800	9947.900
GR	1600.600	9957.700	1601.600	9968.300	1599.600	9975.700	1599.100	9977.900	1599.000	9989.500
GR	1599.200	9994.400	1599.500	10000.000	1599.500	10009.100	1599.300	10030.400	1600.300	10043.300
GR	1601.700	10060.800	1619.500	10080.600	1628.900	10093.500	1625.000	10101.600	.000	.000
NC	.000	.000	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	9.100	4.100	9899.000	10097.000	.000	.000	.000	9899.000	10110.000
	M-12 TRIBUTARY APPX RM. 2.724									
X1	2.882	20.000	9979.500	10046.700	624.000	644.000	627.000	.000	.000	.000
GR	1620.800	9863.600	1613.800	9869.000	1620.700	9898.500	1617.300	9914.800	1615.400	9943.900
GR	1614.700	9965.100	1612.600	9971.300	1609.400	9979.500	1607.500	9988.500	1606.900	10000.000
GR	1607.100	10013.100	1607.400	10023.900	1608.600	10038.400	1610.500	10046.700	1611.000	10058.800
GR	1611.000	10075.000	1613.700	10085.000	1618.300	10097.400	1622.700	10120.300	1625.100	10140.000
ET	.000	.000	4.100	9909.000	10065.000	.000	.000	.000	.000	.000
X1	2.963	16.000	9950.900	10029.700	420.000	420.000	425.000	.000	.000	.000
GR	3.800	9837.500	1630.800	9867.500	1628.200	9889.200	1625.000	9906.400	1622.700	9927.000
GR	1.100	9941.100	1617.400	9950.900	1615.400	9962.300	1614.400	9965.300	1614.400	9971.200
GR	1613.800	10000.000	1614.100	10014.700	1617.200	10029.700	1623.800	10063.500	1634.800	10081.400
GR	1638.600	10091.100	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.000	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9930.000	10085.000	.000	.000	.000	.000	.000
X1	3.058	16.000	9974.700	10019.500	520.000	480.000	503.000	.000	.000	.000
GR	1640.600	9914.900	1632.300	9927.100	1625.700	9943.100	1624.700	9956.900	1623.800	9968.500
GR	1621.600	9974.700	1621.400	9981.300	1621.300	9988.200	1621.400	10000.000	1621.500	10019.500
GR	1622.400	10031.100	1622.400	10046.300	1623.200	10058.300	1625.400	10072.000	1631.800	10086.700
GR	1641.100	10115.100	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9940.000	10130.000	.000	.000	.000	.000	.000
X1	3.127	23.000	9985.300	10053.700	368.000	356.000	363.000	.000	.000	.000
GR	1654.900	9855.700	1653.800	9864.000	1655.100	9885.800	1654.800	9904.300	1651.400	9914.800
GR	1646.400	9927.900	1640.800	9931.600	1637.700	9939.500	1635.900	9951.400	1631.700	9974.800
GR	1628.300	9985.300	1627.600	10000.000	1627.600	10025.000	1628.200	10053.700	1631.700	10061.400
GR	1632.500	10075.900	1633.300	10090.600	1633.800	10110.000	1635.800	10119.700	1637.800	10131.000
GR	1643.100	10144.900	1649.000	10173.800	1650.100	10184.800	.000	.000	.000	.000

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NC      .000      .000      .050     .000     .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9828.000 10081.000      .000      .000      .000      .000      .000
X1     3.219    24.000 9959.200 10050.500  468.000  504.000  482.000      .000      .000      .000
GR  1663.100 9773.500 1656.600 9795.200 1650.600 9810.900 1644.700 9824.600 1641.300 9838.000
GR  1640.700 9849.900 1640.200 9869.700 1639.200 9885.200 1637.600 9905.100 1637.300 9929.200
GR  1637.200 9949.000 1634.700 9959.200 1633.500 9968.000 1633.400 9984.300 1632.400 10000.000
GR  1632.800 10022.600 1634.100 10034.600 1634.700 10050.500 1635.100 10063.600 1641.400 10075.600
GR  1650.900 10096.200 1656.300 10112.500 1661.900 10136.000 1664.700 10164.400      .000      .000

NC      .075      .080      .045     .000     .000      .000      .000      .000      .000      .000
ET      .000     9.100     4.100 9898.000 10160.000      .000      .000      .000 9898.000 10160.000
        M-11 TRIBUTARY APPX RM. 3.359
X1     3.303    26.000 9990.000 10042.200  448.000  464.000  445.000      .000      .000      .000
GR  1654.400 9863.600 1651.300 9880.700 1648.300 9892.700 1645.900 9915.500 1644.800 9929.200
GR  1644.100 9948.400 1643.600 9961.300 1642.700 9979.100 1640.400 9990.000 1638.600 9993.100
GR  1638.300 10000.000 1638.300 10011.300 1640.400 10026.700 1640.700 10042.200 1640.400 10058.600
GR  1641.700 10088.000 1641.300 10103.300 1640.500 10108.300 1639.300 10114.500 1642.200 10123.000
GR  1646.900 10152.300 1647.400 10162.700 1645.500 10172.900 1645.100 10181.600 1646.200 10191.400
GR  1652.000 10205.800      .000      .000      .000      .000      .000      .000      .000      .000

NC      .000      .075      .040     .000     .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9947.000 10115.000      .000      .000      .000      .000      .000
X1     3.400    21.000 9967.700 10031.700  500.000  520.000  510.000      .000      .000      .000
GR  1661.000 9942.000 1657.000 9947.000 1650.000 9950.000 1648.100 9955.500 1647.300 9967.700
GR  1646.800 9974.700 1646.600 9978.700 1646.200 9984.000 1646.200 9993.600 1646.200 10000.000
GR  1646.900 10012.900 1646.900 10023.500 1647.500 10031.700 1656.400 10081.200 1656.600 10097.000
GR  1656.600 10114.100 1656.300 10125.100 1656.600 10144.400 1658.000 10162.500 1659.600 10173.500
GR  1662.000 10185.100      .000      .000      .000      .000      .000      .000      .000      .000

NC      .070      .070      .000     .000     .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9932.000 10117.000      .000      .000      .000      .000      .000
        NEW LAKE PLEASANT RD. APPX RM. 3.505
X1     3.473    18.000 9962.200 10084.500  396.000  392.000  388.000      .000      .000      .000
GR  1666.000 9920.000 1665.000 9923.000 1664.000 9925.000 1663.000 9927.000 1662.800 9930.600
GR  1657.200 9944.200 1653.400 9962.200 1652.100 9970.000 1651.500 9986.100 1650.300 10000.000
GR  1650.300 10016.100 1651.700 10035.500 1651.600 10056.200 1651.600 10071.600 1653.100 10084.500
GR  1654.500 10094.800 1658.600 10110.400 1668.100 10128.200      .000      .000      .000      .000

ET      .000      .000     4.100 9925.000 10055.000      .000      .000      .000      .000      .000
X1     3.492    12.000 9979.500 10020.500   72.000  140.000  102.000      .000      .000      .000
X3    10.000      .000      .000     .000     .000      .000      .000 1666.200 1666.200      .000
GR  1688.000 9725.000 1684.000 9740.000 1680.000 9885.000 1667.000 9940.000 1666.100 9979.500
GR  1653.100 9979.500 1653.100 10020.500 1666.100 10020.500 1667.000 10045.000 1680.000 10080.000
GR  1684.000 10100.000 1688.000 10230.000      .000      .000      .000      .000      .000      .000

SB     1.250     1.560     2.700     .000   41.000     2.000  507.000      .000 1655.100 1653.100
ET      .000      .000     4.100 9765.000 10135.000      .000      .000      .000      .000      .000
X1     3.520    11.000 9979.500 10020.500  146.000  146.000  146.000      .000      .000      .000
X2      .000      .000     1.000 1668.100 1684.600      .000      .000     2.000      .000      .000
X3    10.000      .000      .000     .000     .000      .000      .000 1684.600 1684.600      .000
BT    10.000 9650.000 1692.000 1692.000 9725.000 1690.000 1690.000 9740.000 1684.700 1684.700
BT  9800.000 1684.600 1678.200 9900.000 1685.100 1670.000 9979.500 1686.200 1668.100 10020.500
BT  1686.700 1668.100 10100.000 1688.500 1670.000 10200.000 1690.900 1687.500 10230.000 1692.000
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BT	[illegible]92.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
GR	[illegible]2.000	9650.000	1688.000	9725.000	1684.700	9740.000	1678.200	9800.000	1670.000	9900.000
GR	[illegible]55.100	9979.500	1655.100	10020.500	1659.800	10100.000	1684.000	10160.000	1687.500	10200.000
GR	1692.000	10230.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9865.000	10140.000	.000	.000	.000	.000	.000
X1	3.537	30.000	9974.200	10020.400	102.000	82.000	92.000	.000	.000	.000
GR	1690.300	9768.700	1683.700	9814.000	1682.800	9825.900	1679.600	9846.000	1676.800	9860.600
GR	1675.700	9872.900	1673.200	9888.300	1673.500	9900.400	1672.400	9919.600	1670.500	9930.000
GR	1668.700	9941.200	1666.300	9953.900	1664.700	9959.400	1656.400	9974.200	1657.000	9983.800
GR	1657.200	10000.000	1657.700	10020.400	1658.000	10035.400	1658.300	10049.200	1664.500	10063.800
GR	1671.400	10083.300	1674.200	10098.400	1681.600	10114.900	1684.400	10130.400	1685.300	10147.500
GR	1687.600	10173.400	1688.300	10195.400	1689.800	10215.200	1689.900	10228.500	1691.200	10252.200
ET	.000	.000	4.100	9840.000	10145.000	.000	.000	.000	.000	.000
X1	3.569	50.000	9936.900	10031.500	196.000	144.000	167.000	.000	.000	.000
GR	1696.700	9685.200	1693.800	9711.500	1692.100	9725.300	1691.200	9742.900	1690.600	9757.100
GR	1689.700	9764.600	1689.300	9770.100	1688.700	9779.800	1688.200	9785.800	1685.000	9805.100
GR	1682.500	9814.100	1680.300	9829.200	1679.200	9846.600	1677.800	9852.500	1674.600	9870.100
GR	1670.500	9881.300	1665.300	9896.800	1662.600	9905.000	1662.500	9920.700	1662.000	9936.900
GR	1659.700	9941.900	1660.400	9958.300	1659.700	9964.700	1659.800	9976.100	1659.800	9990.900
GR	1660.000	10000.000	1660.600	10011.100	1661.800	10031.500	1662.800	10051.700	1667.300	10075.600
GR	1666.900	10092.300	1667.700	10103.100	1671.100	10122.200	1677.800	10140.800	1678.900	10155.000
GR	1678.000	10170.600	1676.800	10186.400	1675.300	10200.100	1674.200	10204.000	1677.600	10221.100
GR	1682.000	10232.300	1685.700	10241.900	1690.500	10251.000	1691.200	10266.500	1691.400	10276.900
GR	1692.200	10299.400	1693.900	10316.400	1696.100	10337.400	1698.000	10346.800	1699.800	10361.700
NC	.000	.070	.050	.000	.000	.000	.000	.000	.000	.000
QT	[illegible]2.000	13900.000	13900.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9591.000	10325.000	.000	.000	.000	.000	.000
X1	3.673	57.000	9949.000	10100.200	580.000	512.000	550.000	.000	.000	.000
GR	1696.900	9506.300	1694.200	9526.500	1692.400	9554.200	1690.400	9569.100	1686.500	9591.000
GR	1680.900	9596.500	1678.900	9608.700	1676.700	9627.200	1676.400	9643.900	1675.800	9655.500
GR	1675.700	9671.000	1674.600	9682.400	1673.500	9704.300	1673.500	9716.500	1674.300	9739.300
GR	1674.700	9762.500	1675.300	9789.800	1674.700	9814.700	1674.700	9847.300	1673.900	9871.800
GR	1672.500	9882.500	1672.500	9903.200	1672.200	9930.000	1672.900	9949.000	1670.100	9962.800
GR	1667.600	9972.200	1667.700	9984.900	1667.600	9996.700	1668.800	10000.000	1668.200	10015.400
GR	1669.100	10034.300	1669.800	10054.100	1670.600	10069.900	1671.000	10075.000	1671.500	10100.200
GR	1671.400	10113.100	1669.900	10129.300	1671.500	10143.400	1671.000	10153.300	1673.900	10162.000
GR	1671.100	10171.600	1673.900	10179.900	1671.700	10185.400	1671.100	10194.100	1669.400	10203.800
GR	1668.500	10214.000	1669.000	10230.500	1669.000	10244.400	1669.000	10255.800	1670.300	10268.100
GR	1671.500	10282.600	1674.300	10305.000	1678.800	10320.400	1680.900	10335.600	1684.200	10353.200
GR	1686.200	10365.200	1692.000	10400.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9825.000	10360.000	.000	.000	.000	.000	.000
	BOUNDARY SEC 23/24, T6N; R1W APPX RM. 3.699									
	M-10 TRIBUTARY APPX RM. 3.714									
X1	3.764	52.000	9960.100	10151.300	464.000	708.000	477.000	.000	.000	.000
GR	1689.000	9680.000	1688.000	9690.000	1687.000	9701.000	1686.000	9710.000	1685.000	9712.000
GR	1684.100	9718.200	1683.100	9733.500	1682.800	9750.600	1681.600	9767.000	1682.300	9781.600
GR	1683.000	9796.700	1683.700	9817.000	1684.000	9837.000	1684.300	9855.500	1684.100	9870.000
GR	1684.300	9891.800	1681.300	9903.700	1680.600	9913.000	1680.500	9926.500	1681.300	9952.200
GR	1681.300	9960.100	1679.600	9976.300	1676.800	9983.600	1678.700	9992.700	1676.700	10000.000

GR	[illegible]4.500	10012.400	1676.800	10020.500	1678.500	10024.800	1676.400	10037.500	1677.000	10050.400
GR	[illegible].200	10067.500	1679.200	10079.900	1679.200	10091.800	1679.600	10110.000	1679.800	10133.900
GR	[illegible]0.200	10151.300	1679.600	10171.300	1678.600	10182.400	1678.400	10192.700	1678.500	10204.100
GR	1681.100	10215.600	1681.600	10230.600	1681.900	10244.600	1680.900	10267.200	1680.800	10278.100
GR	1680.600	10290.900	1680.900	10302.900	1680.900	10318.900	1680.900	10336.000	1681.200	10343.700
GR	1681.600	10347.300	1700.500	10394.600	.000	.000	.000	.000	.000	.000
NC	.000	.000	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9952.000	10321.000	.000	.000	.000	.000	.000
X1	3.862	49.000	9957.700	10039.500	448.000	504.000	518.000	.000	.000	.000
GR	1696.100	9799.800	1694.900	9807.700	1694.600	9815.900	1694.100	9829.400	1693.800	9835.900
GR	1694.500	9852.500	1694.500	9865.100	1695.200	9889.000	1695.700	9902.400	1695.700	9916.600
GR	1695.800	9929.800	1695.700	9943.200	1693.600	9948.800	1687.900	9957.700	1683.700	9969.500
GR	1683.400	9979.900	1683.400	9990.000	1683.300	10000.000	1686.100	10008.700	1686.300	10016.400
GR	1685.500	10026.900	1687.800	10039.500	1688.400	10045.000	1688.200	10051.500	1686.600	10063.500
GR	1686.600	10084.800	1687.500	10101.000	1686.500	10118.000	1686.900	10134.200	1687.500	10149.900
GR	1689.100	10172.400	1689.400	10194.800	1688.100	10216.400	1687.500	10232.600	1689.100	10263.200
GR	1689.300	10277.200	1688.400	10291.500	1686.700	10307.600	1687.100	10319.000	1689.200	10337.600
GR	1692.100	10360.300	1692.400	10371.100	1692.900	10384.900	1692.700	10397.100	1692.100	10410.500
GR	1692.800	10425.000	1693.000	10436.600	1695.600	10446.100	1696.000	10452.000	.000	.000
NC	.070	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9798.000	10186.000	.000	.000	.000	.000	.000
X1	3.946	46.000	9933.200	10163.200	448.000	532.000	447.000	.000	.000	.000
GR	1705.800	9779.200	1703.300	9786.200	1698.500	9801.100	1694.500	9807.200	1694.900	9817.100
GR	1696.300	9826.300	1697.000	9839.300	1698.300	9856.300	1697.700	9862.400	1694.200	9880.900
GR	1692.500	9891.600	1692.400	9897.800	1693.400	9907.000	1694.700	9923.300	1694.900	9933.200
GR	1693.900	9943.000	1691.900	9950.700	1692.500	9968.900	1692.500	9980.000	1693.200	9987.600
GR	[illegible]92.400	10000.000	1693.400	10012.900	1693.800	10029.900	1694.500	10043.500	1695.300	10056.800
GR	[illegible].300	10067.100	1695.000	10068.600	1694.900	10085.300	1694.300	10095.400	1694.900	10121.000
GR	[illegible]96.400	10141.300	1694.300	10163.200	1697.300	10173.500	1699.300	10184.600	1700.100	10198.800
GR	1700.000	10222.300	1700.200	10243.900	1699.800	10262.400	1700.700	10272.500	1700.500	10285.500
GR	1700.500	10293.500	1700.900	10307.500	1701.500	10320.900	1701.900	10331.200	1702.900	10339.700
GR	1704.800	10350.200	.000	.000	.000	.000	.000	.000	.000	.000
NC	.080	.080	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9680.000	10032.000	.000	.000	.000	.000	.000
X1	4.049	45.000	9895.600	10014.000	500.000	524.000	542.000	.000	.000	.000
GR	1710.600	9577.500	1708.000	9592.000	1706.800	9607.300	1706.300	9622.400	1708.100	9639.600
GR	1707.400	9655.500	1706.800	9672.900	1704.600	9685.800	1703.800	9692.700	1705.000	9709.400
GR	1705.900	9722.200	1705.700	9740.300	1706.300	9755.700	1705.800	9767.300	1706.600	9773.400
GR	1701.500	9783.100	1701.700	9793.700	1701.500	9806.200	1700.700	9815.100	1702.300	9835.700
GR	1703.200	9852.200	1703.600	9865.900	1704.400	9884.900	1703.300	9895.600	1703.000	9907.600
GR	1702.100	9949.600	1700.900	9956.600	1699.100	9964.600	1699.100	9978.000	1699.700	10000.000
GR	1700.900	10009.500	1700.400	10014.000	1709.500	10037.800	1708.800	10045.600	1708.800	10056.700
GR	1711.300	10082.900	1711.400	10099.800	1710.900	10107.500	1709.900	10117.800	1708.800	10125.000
GR	1708.300	10136.400	1708.100	10146.600	1708.300	10161.700	1708.900	10174.400	1710.200	10187.700
NC	.000	.085	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9805.000	10065.000	.000	.000	.000	.000	.000

X1	4.149	26.000	9950.100	10016.600	552.000	560.000	529.000	.000	.000	.000
GR	.500	9746.200	1720.300	9764.900	1718.500	9778.700	1717.900	9791.000	1715.100	9810.200
GR	0.500	9832.900	1708.800	9844.200	1708.100	9850.700	1708.100	9857.000	1709.000	9863.400
GR	1709.500	9878.700	1710.200	9891.300	1710.300	9898.700	1710.200	9912.300	1709.100	9950.100
GR	1708.000	9971.400	1706.400	9983.900	1706.400	9994.400	1706.300	10000.000	1711.400	10016.600
GR	1713.200	10029.700	1714.200	10045.700	1715.700	10064.100	1718.100	10082.400	1719.700	10096.600
GR	1728.800	10136.700	.000	.000	.000	.000	.000	.000	.000	.000
NC	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9938.000	10266.000	.000	.000	.000	.000	.000
X1	4.254	30.000	9945.000	10090.900	544.000	432.000	550.000	.000	.000	.000
GR	1728.400	9933.000	1727.000	9935.000	1725.000	9937.000	1720.000	9940.000	1716.900	9945.000
GR	1715.800	9953.900	1715.500	9960.300	1717.200	9969.800	1717.400	9974.600	1715.600	9984.300
GR	1715.500	10000.000	1717.200	10010.300	1718.100	10024.800	1718.600	10061.200	1718.900	10090.900
GR	1719.700	10108.400	1720.700	10127.100	1721.200	10146.600	1721.300	10158.200	1721.700	10180.900
GR	1721.000	10209.600	1720.000	10223.500	1718.600	10233.400	1718.600	10247.300	1720.400	10264.400
GR	1720.800	10281.800	1720.700	10287.900	1722.700	10298.000	1725.100	10313.100	1729.000	10322.400
NC	.000	.000	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9924.000	10176.000	.000	.000	.000	.000	.000
X1	4.344	23.000	9978.300	10071.400	476.000	488.000	479.000	.000	.000	.000
GR	1735.300	9915.900	1733.000	9920.000	1730.000	9925.000	1725.000	9930.000	1723.200	9934.800
GR	1721.400	9936.700	1722.100	9947.400	1723.700	9963.100	1724.100	9978.300	1723.400	9988.400
GR	1723.200	9999.400	1723.200	10017.900	1722.900	10031.500	1723.700	10043.300	1725.100	10071.400
GR	1725.300	10093.100	1727.000	10112.600	1727.400	10133.100	1726.400	10151.000	1727.400	10181.700
GR	1727.500	10187.200	1730.600	10201.100	1734.800	10212.600	.000	.000	.000	.000
NC	.000	.000	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9898.000	10083.000	.000	.000	.000	.000	.000
X1	4.437	20.000	9953.700	10031.800	504.000	480.000	488.000	.000	.000	.000
GR	2.000	9890.000	1741.000	9891.000	1740.000	9892.000	1739.400	9894.500	1730.900	9912.500
GR	1730.300	9923.800	1731.100	9940.100	1732.300	9953.700	1732.300	9970.500	1732.100	9981.200
GR	1730.500	9992.000	1729.400	9999.500	1730.200	10014.300	1729.900	10022.400	1731.300	10031.800
GR	1730.900	10045.200	1731.200	10055.700	1731.900	10062.500	1733.200	10072.500	1742.000	10092.000
NC	.070	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9950.000	10190.000	.000	.000	.000	.000	.000
X1	4.540	23.000	9972.700	10043.600	472.000	632.000	544.000	.000	.000	.000
GR	1761.800	9917.400	1756.500	9928.000	1745.900	9955.800	1738.600	9972.700	1738.500	9982.700
GR	1737.900	9998.000	1739.000	10012.800	1740.000	10032.500	1739.500	10043.600	1741.400	10054.300
GR	1741.800	10064.500	1741.600	10074.600	1744.100	10094.500	1745.300	10104.500	1744.800	10115.800
GR	1746.300	10136.400	1746.600	10151.100	1747.300	10163.000	1747.800	10185.700	1749.100	10198.700
GR	1749.900	10224.000	1749.000	10239.100	1753.600	10266.600	.000	.000	.000	.000
NC	.000	.065	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9841.000	10130.000	.000	.000	.000	.000	.000
X1	4.634	27.000	9848.400	10050.200	496.000	480.000	497.000	.000	.000	.000
GR	1759.000	9833.000	1757.000	9837.000	1755.000	9840.000	1752.200	9848.400	1748.600	9859.500
GR	1749.400	9873.900	1748.800	9884.400	1749.500	9896.300	1749.800	9911.000	1749.100	9923.000
GR	1749.900	9937.300	1749.300	9950.400	1749.000	9962.800	1749.200	9974.300	1747.900	9986.700
GR	1746.700	9999.100	1748.200	10018.600	1747.300	10032.300	1751.400	10050.200	1752.900	10062.400
GR	1753.600	10080.800	1754.300	10092.000	1753.900	10104.900	1754.400	10117.200	1754.000	10128.000
GR	1757.100	10139.000	1758.000	10142.000	.000	.000	.000	.000	.000	.000

NC	.080	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9930.000	10111.000	.000	.000	.000	.000	.000
X1	4.727	23.000	9942.800	10026.300	505.000	465.000	496.000	.000	.000	.000
GR	1774.000	9870.200	1771.800	9887.200	1774.300	9905.100	1770.700	9915.000	1766.200	9924.200
GR	1761.900	9934.200	1757.500	9942.800	1753.600	9950.500	1753.600	9957.000	1753.900	9972.000
GR	1754.300	9983.400	1755.700	9998.200	1755.200	10011.100	1757.800	10026.300	1757.800	10043.000
GR	1758.500	10058.100	1758.200	10072.500	1759.600	10086.000	1760.600	10096.600	1763.300	10109.600
GR	1767.300	10123.900	1772.600	10146.800	1774.200	10152.600	.000	.000	.000	.000
NC	.000	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9806.000	10037.000	.000	.000	.000	.000	.000
X1	4.825	18.000	9947.100	10026.500	535.000	490.000	515.000	.000	.000	.000
GR	1777.800	9757.000	1776.700	9777.500	1773.800	9795.700	1771.700	9811.100	1770.100	9827.700
GR	1769.700	9855.800	1768.600	9878.600	1768.200	9894.300	1767.600	9924.100	1766.100	9947.100
GR	1762.700	9967.700	1762.300	9982.500	1761.800	9998.200	1762.200	10008.500	1762.300	10019.300
GR	1763.100	10026.500	1775.200	10040.600	1786.500	10055.300	.000	.000	.000	.000
ET	.000	.000	4.100	9956.000	10161.000	.000	.000	.000	.000	.000
	BOUNDARY SEC 22/23, T6N; R1W APPX RM. 4.865									
X1	4.918	19.000	9963.900	10027.900	465.000	540.000	492.000	.000	.000	.000
GR	1797.900	9935.300	1794.900	9945.200	1768.700	9963.900	1768.200	9982.200	1769.300	10001.400
GR	1769.600	10015.700	1772.000	10027.900	1773.900	10040.900	1775.600	10052.800	1775.800	10067.500
GR	1775.900	10076.000	1774.600	10082.100	1776.000	10099.200	1776.400	10109.900	1776.800	10132.400
GR	1778.000	10147.400	1780.100	10160.800	1785.400	10187.500	1797.000	10231.300	.000	.000
NC	.000	.085	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9770.000	10032.000	.000	.000	.000	.000	.000
X1	5.044	22.000	9949.600	10015.600	685.000	560.000	664.000	.000	.000	.000
GR	7.600	9719.200	1793.100	9732.500	1790.300	9752.800	1787.900	9774.600	1786.800	9790.300
GR	1785.700	9812.100	1784.000	9842.200	1783.700	9856.200	1784.000	9874.900	1782.600	9898.700
GR	1783.100	9916.200	1783.300	9932.900	1780.600	9949.600	1778.800	9972.200	1778.300	9983.900
GR	1778.300	9998.100	1778.000	10006.500	1777.800	10015.600	1794.300	10040.700	1795.200	10058.700
GR	1797.300	10070.100	1799.800	10084.400	.000	.000	.000	.000	.000	.000
NC	.000	.075	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9973.000	10185.000	.000	.000	.000	.000	.000
X1	5.156	18.000	9984.100	10067.200	540.000	700.000	595.000	.000	.000	.000
GR	1806.000	9957.100	1804.100	9965.000	1789.600	9984.100	1789.000	9990.200	1788.900	9997.500
GR	1789.700	10012.200	1789.300	10025.000	1789.800	10044.600	1790.000	10067.200	1793.600	10086.500
GR	1792.800	10105.800	1791.800	10118.600	1793.200	10133.300	1794.400	10158.100	1797.300	10180.500
GR	1799.200	10198.200	1798.600	10210.600	1803.700	10219.700	.000	.000	.000	.000
NC	.060	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9855.000	10083.000	.000	.000	.000	.000	.000
X1	5.250	30.000	9972.600	10026.800	650.000	330.000	489.000	.000	.000	.000
GR	1824.000	9835.100	1807.800	9853.000	1800.100	9861.400	1798.600	9877.100	1798.100	9888.300
GR	1798.700	9901.800	1798.600	9912.000	1801.900	9928.700	1801.400	9942.200	1799.900	9966.300
GR	1800.100	9972.600	1795.900	9983.300	1796.100	9998.000	1796.500	10006.800	1798.800	10017.600
GR	1800.600	10026.800	1801.600	10038.400	1801.300	10052.000	1800.700	10060.200	1804.200	10072.800
GR	1807.100	10089.200	1808.600	10111.700	1811.000	10132.800	1811.900	10145.200	1810.900	10155.300
GR	1808.900	10168.800	1810.300	10181.100	1813.100	10197.600	1816.500	10213.400	1818.400	10216.300

NC	.000	.000	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9902.000	10029.000	.000	.000	.000	.000	.000
X1	5.334	15.000	9970.200	10012.900	460.000	445.000	451.000	.000	.000	.000
GR	1825.100	9873.800	1821.000	9889.700	1811.400	9908.000	1807.600	9916.200	1806.500	9931.500
GR	1806.400	9945.900	1805.800	9959.900	1803.900	9970.200	1802.600	9978.900	1802.800	9988.800
GR	1803.000	9999.100	1802.700	10006.000	1805.500	10012.900	1810.300	10022.000	1826.900	10049.600
NC	.070	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9946.000	10093.000	.000	.000	.000	.000	.000
X1	5.434	16.000	9965.300	10033.200	450.000	656.000	525.000	.000	.000	.000
GR	1834.600	9888.600	1831.100	9914.200	1828.200	9926.600	1823.400	9943.800	1814.600	9965.300
GR	1812.000	9974.200	1812.100	9998.100	1812.800	10007.000	1813.900	10017.500	1814.900	10033.200
GR	1815.500	10050.400	1815.000	10060.300	1815.100	10069.600	1815.000	10077.500	1819.200	10086.400
GR	1835.300	10118.600	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.075	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9896.000	10049.000	.000	.000	.000	.000	.000
	M-9 TRIBUTARY APPX RM. 5.433									
X1	5.529	17.000	9987.900	10026.200	485.000	490.000	501.000	.000	.000	.000
GR	1846.900	9854.500	1844.100	9875.100	1821.500	9908.400	1820.600	9919.100	1822.300	9928.000
GR	1822.300	9942.800	1821.600	9949.700	1821.200	9953.000	1822.100	9965.300	1822.000	9977.900
GR	1821.700	9987.900	1820.300	9998.200	1820.200	10007.800	1819.900	10026.200	1826.900	10041.900
GR	1844.200	10085.800	1845.000	10089.800	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9928.000	10184.000	.000	.000	.000	.000	.000
X1	5.625	22.000	9951.000	10063.200	500.000	485.000	506.000	.000	.000	.000
GR	1860.000	9880.100	1852.100	9894.300	1837.100	9928.600	1829.700	9951.000	1827.900	9959.000
GR	[illegible]3.800	9967.800	1830.900	9981.100	1830.800	9986.500	1829.300	9997.700	1829.800	10009.500
GR	[illegible]0.700	10022.400	1830.400	10035.800	1829.300	10046.400	1831.400	10063.200	1832.000	10087.500
GR	1832.100	10115.300	1832.500	10135.100	1832.500	10149.000	1831.200	10170.700	1836.700	10182.500
GR	1850.500	10209.700	1853.800	10234.700	.000	.000	.000	.000	.000	.000
NC	.075	.070	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9830.000	10126.000	.000	.000	.000	.000	.000
X1	5.726	24.000	9961.300	10025.400	570.000	485.000	534.000	.000	.000	.000
GR	1862.200	9807.300	1837.100	9837.900	1835.800	9847.900	1836.400	9861.600	1838.400	9873.000
GR	1838.400	9887.100	1838.100	9902.900	1837.700	9940.800	1838.000	9961.300	1837.800	9972.300
GR	1835.000	9978.900	1835.600	9983.900	1835.400	10001.800	1835.600	10010.300	1837.400	10014.600
GR	1835.700	10017.600	1839.000	10025.400	1839.900	10040.500	1839.500	10063.400	1840.900	10098.000
GR	1842.300	10119.600	1846.200	10140.600	1851.100	10156.600	1853.400	10162.000	.000	.000
NC	.000	.000	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9871.000	10027.000	.000	.000	.000	.000	.000
X1	5.808	15.000	9970.200	10015.300	465.000	415.000	433.000	.000	.000	.000
GR	1869.500	9841.200	1861.600	9860.900	1851.600	9872.300	1846.700	9887.300	1845.800	9905.400
GR	1845.800	9923.200	1844.800	9946.400	1841.900	9957.000	1843.400	9970.200	1843.700	9981.900
GR	1842.400	9987.900	1841.600	10002.700	1842.000	10015.300	1848.900	10021.400	1865.900	10050.400

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NC      .000      .075      .000      .000      .000      .000      .000      .000      .000      .000
QT     2.000 12300.000 12300.000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9962.000 10085.000      .000      .000      .000      .000      .000
        M-8 TRIBUTARY APPX RM. 5.853
X1     5.905    13.000 9965.600 10065.700   430.000   540.000   512.000      .000      .000      .000
GR  1864.000 9955.000 1856.300 9965.600 1849.300 9975.600 1849.700 9983.500 1849.400 9998.500
GR  1849.500 10009.800 1850.700 10023.100 1851.800 10034.800 1852.500 10051.700 1853.900 10065.700
GR  1853.200 10073.800 1863.700 10095.600 1864.400 10107.800      .000      .000      .000      .000

NC      .000      .080      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9726.000 10139.000      .000      .000      .000      .000      .000
X1     6.010    24.000 9968.300 10052.200   495.000   600.000   557.000      .000      .000      .000
GR  1872.000 9710.000 1870.000 9715.000 1868.000 9720.000 1867.600 9724.500 1860.500 9735.700
GR  1858.300 9745.700 1858.200 9753.900 1860.100 9766.800 1861.900 9790.700 1862.300 9831.400
GR  1862.600 9862.500 1861.800 9890.500 1863.000 9920.200 1862.600 9954.900 1862.000 9968.300
GR  1859.000 9998.100 1859.000 10007.300 1860.300 10019.200 1861.500 10052.200 1861.500 10071.900
GR  1859.900 10087.200 1861.400 10121.700 1865.700 10136.200 1872.200 10152.900      .000      .000

NC      .000      .070      .045      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9923.000 10088.000      .000      .000      .000      .000      .000
X1     6.094    18.000 9972.500 10041.100   400.000   477.000   444.000      .000      .000      .000
GR  1892.500 9803.400 1892.400 9820.700 1890.200 9844.300 1883.900 9864.300 1880.700 9880.900
GR  1875.800 9887.900 1872.700 9939.600 1868.100 9942.000 1868.000 9942.300 1867.300 9972.500
GR  1866.000 9982.300 1866.000 9998.100 1866.200 10012.300 1865.600 10016.800 1866.300 10041.100
GR  1866.600 10063.500 1881.700 10116.400 1889.200 10133.500      .000      .000      .000      .000

ET      .000      .000     4.100 9976.000 10103.000      .000      .000      .000      .000      .000
X1     6.143    13.000 9987.300 10066.200   228.000   270.000   255.000      .000      .000      .000
GR  1897.900 9912.300 1895.800 9933.500 1893.000 9949.300 1891.600 9959.400 1870.700 9987.300
GR  1870.600 10002.100 1870.900 10014.400 1870.600 10035.800 1870.600 10047.000 1870.700 10066.200
GR  1873.200 10081.400 1873.600 10092.500 1900.700 10147.600      .000      .000      .000      .000

NC      .000      .075      .050      .000      .000      .000      .000      .000      .000      .000
QT     2.000 12000.000 12000.000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100 9892.000 10226.000      .000      .000      .000      .000      .000
        M-7 TRIBUTARY APPX RM. 6.166
X1     6.231    25.000 9963.000 10030.800   500.000   390.000   467.000      .000      .000      .000
GR  1904.000 9841.300 1898.900 9868.400 1893.600 9880.300 1887.500 9889.900 1879.200 9907.300
GR  1877.800 9916.800 1878.700 9938.200 1879.400 9963.000 1879.400 9982.400 1877.300 9998.200
GR  1878.000 10014.500 1880.000 10030.800 1880.700 10044.700 1880.800 10065.700 1880.900 10098.600
GR  1880.900 10128.100 1880.800 10147.000 1876.600 10158.700 1877.500 10173.300 1876.400 10180.300
GR  1877.100 10190.300 1877.700 10200.900 1881.800 10213.700 1889.500 10234.000 1895.200 10252.100

ET      .000      .000     4.100 9982.000 10171.000      .000      .000      .000      .000      .000
X1     6.323    15.000 9987.600 10019.900   505.000   472.000   485.000      .000      .000      .000
GR  1904.400 9971.000 1886.800 9987.600 1885.700 9998.000 1884.600 10011.100 1887.100 10019.900
GR  1887.000 10041.000 1886.800 10057.000 1887.800 10075.400 1886.700 10096.900 1885.800 10108.900
GR  1885.900 10124.800 1886.800 10132.800 1886.700 10136.400 1888.300 10161.500 1896.800 10182.400
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NC	.000	.075	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9962.000	10058.000	.000	.000	.000	.000	.000
X1	6.391	11.000	9994.000	10044.700	385.000	310.000	361.000	.000	.000	.000
GR	1917.200	9914.200	1911.800	9932.500	1898.900	9965.500	1892.000	9982.100	1890.900	9994.000
GR	1889.800	10001.700	1889.200	10011.600	1889.800	10027.400	1890.300	10044.700	1903.800	10062.200
GR	1915.600	10094.100	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9961.000	10200.000	.000	.000	.000	.000	.000
X1	6.450	20.000	9973.600	10024.700	285.000	375.000	309.000	.000	.000	.000
GR	1926.700	9933.300	1920.800	9945.200	1909.200	9959.300	1895.600	9973.600	1894.000	9980.500
GR	1894.100	9997.400	1894.400	10009.800	1896.300	10024.700	1895.000	10046.800	1897.900	10070.000
GR	1897.600	10086.500	1897.200	10097.400	1899.800	10123.300	1901.000	10143.500	1899.800	10171.100
GR	1900.200	10215.900	1900.800	10244.100	1901.900	10279.400	1905.600	10302.800	1908.900	10307.400
NC	.000	.080	.040	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9976.000	10160.000	.000	.000	.000	.000	.000
X1	6.514	23.000	9980.000	10015.900	330.000	360.000	340.000	.000	.000	.000
GR	1939.600	9928.100	1938.900	9940.200	1930.000	9958.600	1924.800	9965.800	1918.800	9970.000
GR	1911.700	9975.000	1904.500	9980.000	1903.100	9981.000	1901.600	9982.000	1900.500	9982.800
GR	1902.600	9998.400	1904.300	10015.900	1902.300	10024.900	1901.200	10040.500	1901.200	10055.500
GR	1904.400	10075.400	1906.100	10104.800	1906.100	10135.600	1905.400	10150.200	1905.400	10159.500
GR	1911.500	10188.800	1917.100	10209.800	1919.000	10214.900	.000	.000	.000	.000
ET	.000	.000	4.100	9785.000	10057.000	.000	.000	.000	.000	.000
X1	6.616	23.000	9990.800	10041.700	650.000	440.000	534.000	.000	.000	.000
GR	1940.900	9708.800	1930.400	9740.800	1924.400	9758.200	1918.800	9776.500	1915.500	9793.000
GR	1913.800	9807.400	1912.700	9821.000	1912.300	9835.300	1912.400	9851.500	1912.100	9868.400
GR	[illegible]3.000	9887.300	1912.300	9905.900	1911.600	9922.500	1912.100	9937.500	1910.100	9955.800
GR	[illegible]9.900	9971.700	1909.900	9990.800	1908.200	10001.200	1907.500	10017.200	1907.400	10032.900
GR	1908.700	10041.700	1923.400	10067.900	1925.800	10079.200	.000	.000	.000	.000
NC	.080	.000	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9748.000	10115.000	.000	.000	.000	.000	.000
	BOUNDARY SEC 9/10 T6N; R1W APPX RM. 6.688									
X1	6.707	30.000	9994.800	10040.900	435.000	505.000	484.000	.000	.000	.000
GR	1938.000	9685.400	1935.400	9697.100	1929.400	9719.500	1922.000	9751.000	1921.200	9772.900
GR	1919.500	9784.400	1916.000	9796.700	1916.300	9814.500	1919.600	9827.100	1919.700	9847.700
GR	1918.600	9865.200	1919.500	9886.500	1919.500	9915.200	1919.800	9941.400	1920.200	9963.400
GR	1920.400	9973.500	1920.300	9986.700	1916.200	9994.800	1914.900	9998.100	1914.900	10015.000
GR	1916.100	10027.600	1916.800	10040.900	1915.300	10050.500	1917.600	10062.400	1919.000	10078.800
GR	1918.300	10086.500	1917.400	10095.800	1917.400	10109.400	1917.400	10114.900	1928.800	10131.000
NC	.075	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9789.000	10090.000	.000	.000	.000	.000	.000
X1	6.798	25.000	9975.200	10067.600	424.000	532.000	482.000	.000	.000	.000
GR	1932.400	9783.700	1926.900	9800.300	1926.400	9805.300	1929.200	9849.900	1927.200	9864.900
GR	1927.000	9886.700	1927.600	9905.000	1927.500	9928.100	1926.600	9945.800	1925.800	9975.200
GR	1924.800	9978.900	1922.300	9984.800	1922.300	9998.500	1922.600	10004.900	1924.000	10014.200
GR	1925.000	10030.900	1925.500	10049.100	1925.900	10067.600	1926.500	10084.100	1927.000	10095.400
GR	1934.800	10113.400	1935.400	10127.900	1934.900	10148.900	1934.900	10162.300	1936.300	10170.500

NC	.000	.080	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9750.000	10054.000	.000	.000	.000	.000	.000
X1	6.901	31.000	9943.800	10048.000	520.000	544.000	541.000	.000	.000	.000
GR	1945.000	9720.000	1944.000	9730.000	1943.000	9735.000	1942.000	9738.000	1941.600	9741.100
GR	1938.200	9753.700	1936.900	9760.300	1936.300	9772.700	1934.700	9784.600	1934.800	9794.000
GR	1936.600	9817.100	1936.300	9835.500	1934.800	9855.500	1935.300	9882.500	1935.500	9906.300
GR	1935.300	9921.800	1934.800	9932.700	1934.600	9943.800	1933.900	9960.400	1933.800	9969.700
GR	1933.400	9978.000	1934.900	9987.200	1934.600	9989.400	1934.900	9997.500	1932.700	10023.000
GR	1931.700	10044.900	1932.700	10046.000	1933.400	10047.000	1934.200	10048.000	1935.800	10050.000
GR	1944.000	10060.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.000	.085	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9965.000	10108.000	.000	.000	.000	.000	.000
X1	6.987	13.000	9973.300	10033.500	420.000	480.000	456.000	.000	.000	.000
GR	1954.900	9959.700	1951.400	9963.100	1947.900	9966.500	1944.400	9969.900	1940.900	9973.300
GR	1940.800	9998.300	1941.500	10006.700	1941.500	10015.100	1943.600	10033.500	1944.100	10059.100
GR	1943.600	10085.000	1944.400	10099.000	1954.000	10115.000	.000	.000	.000	.000
NC	.000	.080	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9830.000	10297.000	.000	.000	.000	.000	.000
X1	7.111	31.000	9964.700	10083.200	564.000	541.000	565.000	.000	.000	.000
GR	1963.300	9818.000	1960.500	9825.500	1957.600	9832.900	1953.600	9854.200	1953.300	9865.800
GR	1952.700	9888.100	1952.000	9892.500	1951.300	9902.300	1951.300	9912.800	1952.500	9924.000
GR	1954.800	9946.100	1955.500	9964.700	1951.700	9989.200	1950.500	10000.700	1950.400	10006.300
GR	1951.200	10018.000	1950.300	10038.100	1953.700	10060.100	1954.700	10083.200	1955.100	10100.400
GR	1955.100	10123.000	1955.400	10139.300	1953.500	10165.500	1953.400	10189.700	1953.200	10203.500
GR	1954.000	10218.200	1955.900	10242.800	1956.500	10256.500	1956.800	10271.200	1958.100	10293.000
GR	1962.600	10320.000	.000	.000	.000	.000	.000	.000	.000	.000
NC	.070	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9929.000	10176.000	.000	.000	.000	.000	.000
X1	7.199	27.000	9986.100	10048.500	436.000	576.000	465.000	.000	.000	.000
GR	1977.100	9910.600	1975.200	9914.900	1973.200	9919.100	1971.200	9923.300	1958.900	9936.000
GR	1958.000	9953.300	1959.500	9965.200	1958.300	9974.400	1959.600	9986.100	1959.800	9997.500
GR	1960.100	10012.500	1958.700	10021.200	1958.800	10039.200	1962.200	10048.500	1973.500	10063.900
GR	1973.900	10076.300	1972.500	10082.000	1963.400	10088.500	1963.400	10103.400	1962.500	10119.300
GR	1961.500	10131.200	1963.100	10155.900	1965.700	10170.700	1967.200	10191.100	1969.200	10213.000
GR	1971.100	10233.000	1975.300	10258.700	.000	.000	.000	.000	.000	.000
NC	.000	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9888.000	10179.000	.000	.000	.000	.000	.000
X1	7.297	22.000	9976.600	10075.100	532.000	528.000	523.000	.000	.000	.000
GR	1975.400	9878.000	1972.600	9904.400	1967.200	9912.900	1968.200	9929.800	1968.500	9942.000
GR	1969.000	9962.600	1969.000	9976.600	1968.400	9984.000	1968.500	10001.000	1967.900	10010.400
GR	1966.800	10018.500	1967.500	10031.800	1968.500	10043.300	1965.800	10056.100	1969.000	10075.100
GR	1969.400	10092.300	1970.000	10109.300	1969.000	10119.800	1969.900	10136.900	1969.800	10157.500
GR	1973.000	10174.000	1976.000	10185.000	.000	.000	.000	.000	.000	.000

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NC      .075      .000      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9885.000  10172.000      .000      .000      .000      .000      .000
X1     7.396     27.000   9947.800  10048.000    524.000    528.000    523.000      .000      .000      .000
GR  1985.700   9880.100   1984.400   9881.600   1983.200   9883.000   1981.900   9884.900   1980.700   9885.900
GR  1979.400   9887.400   1976.200   9897.900   1976.200   9912.400   1976.800   9933.200   1978.800   9947.800
GR  1977.400   9962.700   1976.500   9971.500   1974.900   9979.900   1975.300   9998.800   1975.700  10011.100
GR  1976.800  10017.500   1978.500  10048.000   1978.000  10067.900   1976.400  10080.100   1977.400  10095.800
GR  1978.100  10108.500   1977.000  10120.700   1978.600  10132.900   1979.800  10158.900   1982.300  10176.900
GR  1984.700  10201.300   1986.400  10221.900       .000       .000       .000       .000       .000       .000

NC      .060      .000      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9942.000  10117.000      .000      .000      .000      .000      .000
X1     7.494     19.000   9986.500  10065.600    524.000    516.000    516.000      .000      .000      .000
GR  2008.000   9910.000   2003.500   9924.000   1998.100   9931.900   1985.300   9951.700   1983.300   9958.100
GR  1985.400   9968.800   1985.800   9986.500   1985.200   9997.500   1984.100  10010.800   1982.900  10025.400
GR  1982.600  10039.400   1984.800  10047.300   1986.400  10065.600   1987.500  10088.500   1990.400  10111.000
GR  1994.600  10135.700   1997.700  10154.900   1998.300  10167.200   2003.200  10190.900       .000       .000

NC      .085      .000      .050      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9915.000  10147.000      .000      .000      .000      .000      .000
X1     7.577     20.000   9981.500  10048.200    480.000    300.000    438.000      .000      .000      .000
GR  2010.000   9908.000   2000.000   9915.000   1993.500   9918.400   1994.800   9927.500   1992.900   9943.900
GR  1990.000   9951.700   1990.700   9963.700   1992.200   9974.200   1992.300   9981.500   1990.500   9992.000
GR  1990.600   9998.000   1991.000  10008.700   1991.600  10023.700   1995.000  10048.200   1993.800  10078.400
GR  1993.900  10102.500   1995.200  10115.300   1998.100  10140.800   2002.300  10161.600   2009.300  10191.000

NC      .000      .000      .045      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9925.000  10081.000      .000      .000      .000      .000      .000
     M-6 TRIBUTARY APPX RM. 7.593
X1     7.670     16.000   9937.800  10033.700    524.000    456.000    490.000      .000      .000      .000
GR  2018.300   9892.900   2007.400   9921.700   2003.600   9937.800   1999.800   9947.900   1999.100   9956.900
GR  1998.900   9962.400   1999.800   9965.000   2000.800   9999.100   2000.900  10016.300   2001.500  10021.700
GR  2000.200  10023.600   2001.700  10033.700   2000.900  10040.000   1999.400  10055.700   1999.300  10073.600
GR  2015.400  10089.800       .000       .000       .000       .000       .000       .000       .000       .000

NC      .080      .000      .055      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9963.000  10067.000      .000      .000      .000      .000      .000
X1     7.752     13.000   9990.600  10059.400    412.000    448.000    431.000      .000      .000      .000
GR  2021.300   9952.100   2018.800   9957.000   2016.200   9961.900   2013.600   9966.800   2008.900   9977.300
GR  2008.600   9985.700   2006.700   9990.600   2006.700  10001.600   2006.800  10011.800   2006.800  10028.500
GR  2006.800  10044.600   2006.800  10059.400   2020.000  10070.000       .000       .000       .000       .000

NC      .000      .070      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9852.000  10080.000      .000      .000      .000      .000      .000
X1     7.798     21.000   9960.300  10040.500    320.000    272.000    248.000      .000      .000      .000
GR  2025.300   9846.600   2022.200   9852.900   2018.900   9859.100   2015.800   9865.300   2012.300   9880.000
GR  2013.300   9904.000   2014.300   9917.500   2015.000   9926.500   2013.400   9938.700   2013.900   9960.300
GR  2013.500   9970.800   2012.600   9982.500   2012.200   9990.300   2012.500  10000.300   2013.700  10015.400
GR  2013.400  10022.100   2013.000  10040.500   2015.400  10053.300   2018.900  10066.900   2021.000  10077.700
GR  2026.000  10085.000       .000       .000       .000       .000       .000       .000       .000       .000
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ET	.000	.000	4.100	9926.000	10135.000	.000	.000	.000	.000	.000
X1	7.892	18.000	9949.700	10007.200	440.000	544.000	498.000	.000	.000	.000
GR	2032.400	9910.500	2030.200	9919.600	2027.900	9928.700	2025.700	9937.800	2022.500	9949.700
GR	2021.700	9962.300	2021.000	9974.300	2021.400	9986.300	2021.600	10001.800	2023.800	10007.200
GR	2024.100	10027.500	2023.100	10049.500	2023.200	10071.200	2023.200	10092.100	2024.200	10102.700
GR	2026.800	10120.400	2027.600	10131.500	2033.700	10149.500	.000	.000	.000	.000
NC	.075	.080	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9824.000	10108.000	.000	.000	.000	.000	.000
X1	8.003	25.000	9953.400	10026.300	680.000	524.000	581.000	.000	.000	.000
GR	2044.200	9741.500	2047.400	9759.100	2041.700	9783.000	2038.800	9798.300	2038.800	9822.200
GR	2037.700	9835.200	2037.400	9849.900	2037.200	9864.800	2035.200	9874.500	2035.300	9888.500
GR	2034.400	9901.900	2035.000	9914.100	2035.200	9924.600	2035.500	9939.800	2035.100	9953.400
GR	2034.100	9975.700	2033.800	9987.000	2033.100	10002.600	2033.900	10007.100	2034.000	10026.300
GR	2036.400	10046.600	2036.200	10079.800	2036.800	10094.900	2048.900	10138.900	2050.700	10147.200
NC	.080	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9970.000	10279.000	.000	.000	.000	.000	.000
X1	8.095	26.000	9975.100	10057.800	512.000	600.000	488.000	.000	.000	.000
GR	2055.300	9965.000	2052.800	9967.000	2050.400	9969.000	2047.900	9971.000	2045.500	9973.000
GR	2043.100	9975.100	2042.600	9988.000	2042.400	9996.800	2042.100	9999.500	2042.600	10009.800
GR	2043.800	10014.900	2044.300	10032.300	2044.100	10057.800	2045.200	10071.100	2044.600	10081.000
GR	2045.900	10096.500	2044.200	10121.300	2044.800	10148.100	2046.200	10171.300	2046.200	10200.600
GR	2045.900	10222.600	2044.900	10234.400	2045.300	10250.600	2044.800	10257.300	2047.700	10270.400
GR	2053.700	10305.300	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9946.000	10315.000	.000	.000	.000	.000	.000
X1	8.190	26.000	9965.300	10020.300	512.000	524.000	500.000	.000	.000	.000
GR	1.300	9842.300	2060.500	9892.500	2059.900	9905.700	2059.300	9918.700	2054.200	9939.400
GR	2053.900	9965.300	2051.000	9976.600	2051.200	9986.400	2052.100	9997.800	2055.000	10020.300
GR	2054.400	10047.500	2054.600	10069.000	2055.400	10094.700	2055.400	10130.000	2055.500	10144.400
GR	2054.300	10162.900	2052.900	10172.700	2053.000	10187.800	2053.900	10212.200	2053.300	10227.500
GR	2054.000	10246.500	2055.400	10267.800	2055.400	10288.500	2054.100	10298.500	2054.400	10309.100
GR	2064.900	10324.700	.000	.000	.000	.000	.000	.000	.000	.000
NC	.065	.070	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9924.000	10206.000	.000	.000	.000	.000	.000
	BOUNDARY SEC 8/9, T6N; R1W APPX RM. 8.294									
X1	8.283	25.000	9960.300	10068.800	476.000	568.000	492.000	.000	.000	.000
GR	2072.000	9918.000	2070.000	9920.000	2067.700	9922.900	2063.200	9940.400	2062.700	9960.300
GR	2061.600	9975.400	2060.900	9975.700	2061.300	9987.700	2060.600	9990.700	2060.600	10001.100
GR	2061.100	10015.100	2062.100	10023.600	2061.300	10036.300	2061.700	10055.300	2063.500	10068.800
GR	2064.700	10095.600	2065.600	10121.400	2064.200	10136.800	2063.900	10163.600	2064.600	10179.000
GR	2064.600	10199.300	2064.900	10215.700	2064.800	10229.500	2067.000	10233.700	2072.000	10245.000
NC	.000	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9784.000	10215.000	.000	.000	.000	.000	.000
X1	8.380	33.000	9932.600	10070.800	548.000	476.000	509.000	.000	.000	.000
GR	2082.000	9778.000	2080.000	9782.000	2076.000	9785.000	2072.600	9787.500	2071.500	9798.200
GR	2070.200	9808.800	2071.900	9820.800	2072.700	9847.600	2072.300	9866.100	2074.700	9882.600
GR	2073.500	9908.400	2074.200	9932.600	2074.400	9964.400	2073.700	9973.700	2073.700	9988.400
GR	2073.300	9997.300	2073.300	10021.300	2073.000	10035.200	2073.400	10070.800	2074.000	10109.100
GR	2073.300	10138.200	2072.900	10149.600	2072.300	10167.100	2073.300	10186.700	2071.900	10199.900

GR	[illegible].300	10212.200	2073.400	10217.800	2072.500	10222.800	2072.900	10234.300	2072.600	10248.200
GR	[illegible]3.900	10265.200	2075.100	10272.500	2082.000	10285.000	.000	.000	.000	.000
NC	.070	.070	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9841.000	10146.000	.000	.000	.000	.000	.000
X1	8.473	22.000	9965.300	10057.300	500.000	520.000	496.000	.000	.000	.000
GR	2090.000	9832.000	2088.000	9835.000	2084.000	9847.000	2080.500	9854.200	2080.500	9876.700
GR	2082.100	9903.100	2082.500	9921.300	2082.700	9947.000	2083.500	9965.300	2081.600	9976.700
GR	2081.000	9985.600	2080.700	9997.700	2081.300	10018.300	2082.400	10047.700	2083.500	10057.300
GR	2082.200	10082.500	2082.100	10095.500	2080.400	10100.600	2080.300	10116.700	2080.500	10132.400
GR	2083.400	10140.900	2090.000	10155.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9877.000	10168.000	.000	.000	.000	.000	.000
X1	8.567	21.000	9967.400	10057.300	520.000	492.000	496.000	.000	.000	.000
GR	2100.000	9867.000	2098.000	9873.000	2096.400	9875.400	2090.300	9893.300	2089.500	9905.600
GR	2090.600	9926.400	2092.000	9941.600	2092.000	9949.000	2091.300	9967.400	2089.500	9982.000
GR	2089.200	9995.500	2089.100	9999.300	2089.100	10016.400	2089.900	10040.200	2090.600	10057.300
GR	2090.600	10087.000	2092.300	10108.100	2092.700	10137.000	2093.400	10153.000	2094.500	10162.800
GR	2099.900	10187.600	.000	.000	.000	.000	.000	.000	.000	.000
NC	.075	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9870.000	10141.000	.000	.000	.000	.000	.000
X1	8.667	22.000	9952.600	10052.800	560.000	524.000	526.000	.000	.000	.000
GR	2108.000	9857.400	2104.000	9872.400	2098.100	9879.200	2098.000	9895.900	2098.300	9900.600
GR	2099.300	9917.400	2099.700	9937.300	2100.000	9952.600	2098.300	9958.400	2098.300	9968.900
GR	2099.200	9976.300	2099.300	10001.700	2100.000	10012.400	2100.200	10043.000	2100.100	10052.800
GR	2101.300	10075.300	2101.400	10078.800	2100.000	10086.900	2101.900	10115.000	2104.000	10135.800
GR	2105.900	10150.000	2109.200	10172.400	.000	.000	.000	.000	.000	.000
NC	.070	.070	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9760.000	10237.000	.000	.000	.000	.000	.000
X1	8.745	52.000	9933.300	10070.500	352.000	420.000	412.000	.000	.000	.000
GR	2116.000	9680.000	2115.000	9681.000	2114.000	9682.000	2113.000	9683.000	2113.900	9683.500
GR	2109.300	9695.300	2105.100	9704.900	2106.200	9712.800	2107.200	9722.200	2107.400	9730.300
GR	2106.400	9734.900	2106.400	9750.700	2105.800	9761.700	2105.100	9770.000	2106.900	9777.900
GR	2107.200	9792.000	2107.600	9807.500	2106.700	9817.400	2106.200	9825.400	2104.800	9829.900
GR	2106.400	9834.300	2106.900	9850.000	2107.200	9872.800	2107.200	9899.200	2106.700	9913.900
GR	2107.100	9933.300	2107.100	9952.800	2107.100	9969.600	2107.900	9983.400	2108.500	10000.000
GR	2107.800	10011.000	2105.500	10021.200	2107.200	10036.500	2105.600	10046.600	2105.300	10059.700
GR	2105.500	10070.500	2107.600	10078.200	2107.400	10093.000	2106.000	10097.500	2106.500	10104.000
GR	2107.100	10114.900	2107.600	10128.600	2107.900	10145.500	2108.500	10163.700	2108.600	10181.000
GR	2108.300	10192.500	2106.500	10198.600	2106.200	10211.300	2105.600	10229.900	2108.800	10233.900
GR	2113.000	10239.200	2116.900	10250.300	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9824.000	10194.000	.000	.000	.000	.000	.000
X1	8.859	38.000	9932.200	10074.800	700.000	620.000	600.000	.000	.000	.000
GR	2125.700	9816.700	2121.800	9825.500	2119.200	9831.400	2117.600	9835.300	2118.100	9861.900
GR	2118.600	9871.000	2118.600	9884.500	2119.700	9892.300	2120.800	9903.500	2120.400	9917.600
GR	2119.500	9932.200	2118.100	9941.300	2117.600	9948.300	2117.600	9958.100	2119.200	9962.900
GR	2119.200	9970.700	2117.100	9973.400	2117.200	9981.900	2117.800	10000.000	2119.000	10005.700
GR	2120.200	10013.500	2119.300	10021.400	2119.000	10034.800	2116.700	10044.100	2117.200	10054.700
GR	2119.200	10064.200	2119.300	10074.800	2119.300	10093.300	2118.800	10110.400	2117.800	10126.900
GR	2119.300	10136.600	2120.600	10144.300	2120.600	10158.100	2119.900	10170.500	2118.800	10178.700
GR	2119.700	10190.900	2122.900	10195.300	2125.700	10203.400	.000	.000	.000	.000

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NC      .065      .085      .000      .000      .000      .000      .000      .000      .000      .000
QT     2.000   8130.000   8130.000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9872.000  10250.000      .000      .000      .000      .000      .000
        M-5 TRIBUTARY, M-4 TRIBUTARY APPX RM. 8.878
X1     8.958     37.000   9926.600  10057.500    484.000    568.000    522.000      .000      .000      .000
GR  2137.400   9857.700   2136.000   9860.000   2135.000   9862.000   2134.400   9864.000   2134.000   9866.300
GR  2132.300   9878.600   2130.400   9890.200   2128.500   9903.500   2128.500   9915.400   2129.200   9926.600
GR  2129.400   9936.700   2127.800   9951.400   2128.100   9960.900   2126.700   9965.400   2126.700   9981.500
GR  2127.800   9989.300   2128.100  10000.000   2128.100  10022.900   2129.700  10037.400   2129.900  10057.500
GR  2130.100  10084.100   2130.600  10098.000   2129.000  10112.500   2128.300  10124.400   2128.100  10136.800
GR  2129.200  10141.800   2130.800  10147.600   2130.800  10159.500   2130.200  10168.200   2130.800  10186.200
GR  2130.800  10199.700   2130.600  10213.300   2132.200  10227.000   2131.600  10235.900   2132.000  10244.800
GR  2134.300  10254.600   2136.000  10260.000      .000      .000      .000      .000      .000      .000

NC      .000      .075      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9880.000  10167.000      .000      .000      .000      .000      .000
X1     9.050     24.000   9882.300  10067.500    476.000    516.000    490.000      .000      .000      .000
GR  2145.700   9877.000   2140.100   9882.300   2137.800   9888.600   2137.800   9901.400   2137.100   9912.000
GR  2137.400   9921.600   2137.900   9933.500   2138.500   9943.100   2137.800   9954.900   2137.600   9971.000
GR  2137.300  10000.000   2139.000  10015.500   2139.700  10028.300   2138.100  10037.400   2139.900  10048.800
GR  2141.100  10067.500   2142.000  10084.900   2140.900  10102.700   2140.200  10118.500   2139.000  10129.100
GR  2140.600  10142.800   2140.600  10157.700   2142.500  10169.200   2147.600  10176.600      .000      .000

ET      .000      .000     4.100   9949.000  10174.000      .000      .000      .000      .000      .000
X1     9.146     23.000   9987.500  10066.800    488.000    528.000    503.000      .000      .000      .000
GR  2158.000   9840.000   2157.000   9842.000   2156.600   9945.100   2149.500   9954.900   2148.700   9962.200
GR  2148.700   9976.800   2149.000   9987.500   2149.400  10000.000   2148.800  10012.400   2148.700  10020.900
GR  2149.200  10027.600   2149.500  10045.700   2149.500  10053.800   2149.200  10066.800   2149.200  10079.600
GR  2148.100  10094.100   2148.100  10112.700   2149.900  10119.400   2150.800  10131.100   2151.500  10145.900
GR  2151.500  10161.000   2150.600  10168.800   2155.900  10177.600      .000      .000      .000      .000

NC      .075      .065      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9903.000  10220.000      .000      .000      .000      .000      .000
X1     9.244     33.000   9986.100  10079.800    640.000    452.000    518.000      .000      .000      .000
GR  2168.000   9890.000   2167.400   9894.900   2167.000   9896.000   2166.000   9898.000   2165.000   9900.000
GR  2164.300   9902.700   2160.900   9908.000   2159.400   9915.400   2160.800   9928.100   2162.000   9950.600
GR  2162.200   9966.900   2162.200   9986.100   2161.600  10000.000   2159.900  10011.700   2160.300  10032.100
GR  2160.900  10041.500   2161.300  10052.100   2159.000  10058.400   2158.800  10066.600   2160.900  10073.600
GR  2162.000  10079.800   2160.900  10095.000   2159.700  10102.900   2159.700  10110.700   2160.600  10116.300
GR  2160.600  10136.300   2160.600  10150.200   2160.400  10167.300   2159.900  10194.900   2162.000  10209.400
GR  2165.000  10224.000   2166.400  10238.800   2168.900  10252.800      .000      .000      .000      .000

NC      .000      .055      .055      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100   9902.000  10093.000      .000      .000      .000      .000      .000
X1     9.327     21.000   9979.800  10075.900    464.000    416.000    439.000      .000      .000      .000
GR  2177.100   9892.700   2175.000   9896.000   2174.300   9900.000   2172.700   9903.500   2171.000   9920.200
GR  2168.500   9934.400   2169.200   9946.800   2170.100   9959.900   2169.700   9976.300   2168.500   9979.800
GR  2168.500   9983.700   2169.400   9989.800   2169.400  10000.000   2169.400  10016.600   2168.700  10030.900
GR  2167.300  10036.200   2168.000  10059.000   2168.300  10075.900   2168.100  10090.600   2173.600  10093.600
GR  2176.900  10099.100      .000      .000      .000      .000      .000      .000      .000      .000
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NC	.080	.075	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	9.100	4.100	9867.000	10113.000	.000	.000	.000	9867.000	10116.000
X1	9.403	29.000	9966.900	10109.200	400.000	412.000	402.000	.000	.000	.000
GR	2186.400	9804.500	2185.600	9807.300	2184.700	9810.200	2183.800	9813.000	2180.300	9832.400
GR	2178.000	9842.200	2179.000	9852.000	2179.600	9867.500	2179.200	9875.800	2178.500	9879.600
GR	2178.700	9888.300	2178.700	9905.100	2179.400	9918.000	2179.700	9930.300	2180.100	9942.800
GR	2179.400	9952.000	2178.300	9966.900	2177.800	9978.200	2177.100	9990.500	2178.300	10000.000
GR	2178.300	10016.000	2178.500	10027.400	2178.000	10035.200	2176.400	10039.500	2176.900	10059.200
GR	2177.100	10084.700	2176.600	10102.200	2179.400	10109.200	2184.300	10116.200	.000	.000
NC	.070	.085	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9797.000	10099.000	.000	.000	.000	.000	.000
X1	9.502	29.000	9911.300	10000.000	540.000	568.000	524.000	.000	.000	.000
GR	2198.900	9788.100	2196.800	9792.900	2194.700	9797.400	2191.900	9805.900	2190.300	9808.900
GR	2191.100	9819.800	2190.400	9834.500	2191.000	9847.200	2191.700	9859.600	2191.900	9876.700
GR	2191.300	9889.000	2190.400	9900.600	2191.700	9911.300	2190.600	9921.000	2190.800	9938.300
GR	2190.800	9956.700	2190.800	9976.500	2191.500	9987.000	2192.600	10000.000	2194.000	10017.900
GR	2194.000	10032.100	2192.000	10042.300	2192.600	10049.200	2192.900	10062.000	2192.900	10083.600
GR	2191.900	10098.300	2192.000	10111.100	2192.600	10122.200	2196.600	10133.100	.000	.000
NC	.000	.075	.050	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9831.000	10184.000	.000	.000	.000	.000	.000
X1	9.592	29.000	9940.000	10149.200	516.000	500.000	474.000	.000	.000	.000
GR	2210.600	9823.400	2208.500	9827.800	2205.000	9831.600	2204.600	9836.700	2201.800	9847.100
GR	2201.300	9860.000	2201.800	9876.200	2203.000	9889.500	2203.700	9901.800	2203.900	9921.600
GR	2203.600	9940.000	2202.900	9948.400	2201.300	9954.700	2202.000	9973.400	2201.500	9991.000
GR	2202.000	10000.000	2202.300	10013.900	2201.800	10026.000	2202.900	10042.100	2202.900	10057.200
GR	2201.600	10069.100	2201.600	10081.200	2203.000	10105.400	2202.500	10116.600	2203.200	10149.200
GR	2.000	10165.100	2202.900	10175.100	2205.000	10182.300	2212.000	10199.700	.000	.000
NC	.085	.000	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9918.000	10189.000	.000	.000	.000	.000	.000
X1	9.661	24.000	9927.200	10035.900	336.000	436.000	365.000	.000	.000	.000
GR	2217.900	9908.000	2217.300	9909.700	2216.600	9911.300	2215.900	9912.800	2215.300	9914.400
GR	2214.600	9916.000	2210.200	9927.200	2208.800	9935.200	2208.600	9954.800	2208.600	9973.200
GR	2208.600	9987.100	2209.300	10000.000	2210.600	10013.800	2212.100	10035.900	2212.100	10053.200
GR	2211.300	10068.900	2212.000	10083.700	2210.600	10093.300	2210.700	10116.800	2209.700	10132.300
GR	2210.700	10146.800	2211.600	10168.000	2210.400	10186.700	2215.300	10190.400	.000	.000
NC	.075	.085	.000	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9796.000	10109.000	.000	.000	.000	.000	.000
X1	9.760	29.000	9923.400	10104.600	536.000	520.000	520.000	.000	.000	.000
GR	2229.100	9782.900	2228.900	9785.700	2228.200	9788.900	2227.400	9791.400	2226.600	9794.200
GR	2224.200	9801.400	2225.900	9808.500	2225.900	9822.900	2224.000	9832.800	2225.400	9842.800
GR	2225.400	9858.800	2224.400	9873.100	2223.900	9902.300	2223.500	9923.400	2222.600	9939.700
GR	2222.600	9960.900	2221.600	9983.700	2222.100	9993.900	2222.800	10000.000	2222.800	10017.500
GR	2221.100	10026.500	2222.100	10039.300	2221.400	10061.000	2221.100	10075.500	2220.500	10090.600
GR	2220.400	10103.000	2224.000	10104.600	2226.800	10110.600	2230.000	10117.500	.000	.000

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ET      .000      .000     4.100  9896.000 10265.000      .000      .000      .000      .000      .000
X1     9.868    37.000  9953.700 10058.000   596.000   548.000   570.000      .000      .000      .000
GR  2240.100  9895.800  2238.900  9896.000  2237.700  9896.300  2236.600  9896.600  2235.400  9896.900
GR  2234.200  9897.200  2234.500  9911.900  2234.400  9919.300  2234.500  9926.700  2235.100  9937.600
GR  2235.100  9953.700  2233.600  9960.800  2234.500  9970.900  2234.500  9982.000  2233.600  9986.900
GR  2233.800 10000.000  2234.400 10020.700  2235.100 10040.600  2235.400 10058.000  2235.100 10074.000
GR  2235.400 10097.900  2234.900 10114.000  2232.800 10132.700  2234.400 10149.200  2233.800 10159.900
GR  2233.800 10174.800  2232.800 10188.000  2234.400 10196.200  2234.900 10213.200  2235.400 10232.000
GR  2234.900 10250.500  2235.600 10270.600  2235.600 10298.200  2235.200 10310.700  2236.300 10322.000
GR  2239.400 10332.800  2242.900 10346.300      .000      .000      .000      .000      .000      .000

NC      .070      .000      .040      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9776.000 10152.000      .000      .000      .000      .000      .000
        BOUNDARY SEC 5/6, T6N; R1W APPX RM. 9.900
X1     9.970    35.000  9922.500 10028.900   528.000   620.000   541.000      .000      .000      .000
GR  2256.000  9765.000  2254.600  9767.300  2253.300  9769.700  2251.900  9772.000  2250.600  9774.400
GR  2249.200  9776.700  2246.900  9783.800  2247.100  9808.800  2246.600  9824.100  2245.500  9849.200
GR  2245.500  9876.700  2246.100  9890.500  2246.800  9905.300  2246.900  9922.500  2246.200  9939.500
GR  2244.500  9946.700  2245.200  9963.000  2245.200  9979.600  2245.700  9994.700  2245.700 10000.000
GR  2246.600 10021.200  2247.800 10028.900  2248.200 10050.500  2247.800 10084.300  2247.800 10111.800
GR  2247.300 10136.000  2246.400 10159.000  2247.500 10170.000  2248.000 10189.100  2248.700 10210.600
GR  2250.800 10232.400  2251.800 10253.100  2251.800 10274.300  2252.500 10289.300  2255.500 10301.700

NC      .075      .070      .055      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9864.000 10080.000      .000      .000      .000      .000      .000
X1    10.064    18.000  9931.800 10070.100   596.000   787.000   497.000      .000      .000      .000
GR  2265.500  9804.100  2267.100  9816.100  2265.500  9839.100  2261.100  9862.600  2259.200  9886.400
GR  2259.200  9911.400  2258.100  9921.800  2256.400  9931.800  2256.600  9958.200  2256.600  9974.600
GR  2255.500  9985.300  2256.900  9993.000  2256.600 10000.000  2257.300 10015.700  2257.800 10031.000
GR  2255.300 10040.100  2255.700 10070.100  2267.600 10091.200      .000      .000      .000      .000

ET      .000      .000     4.100  9925.000 10159.000      .000      .000      .000      .000      .000
        BOUNDARY SEC 6/31, T6N/T7N; R1W APPX RM. 10.112
X1    10.165    24.000  9932.100 10020.200   480.000   632.000   530.000      .000      .000      .000
GR  2275.300  9920.100  2274.100  9922.500  2272.900  9924.900  2271.800  9927.300  2270.700  9929.700
GR  2269.500  9932.100  2266.200  9941.200  2266.400  9960.600  2266.900  9978.500  2266.900 10000.000
GR  2267.600 10007.600  2270.600 10020.200  2269.700 10034.200  2270.400 10048.400  2269.500 10062.900
GR  2270.000 10081.500  2269.700 10094.300  2267.900 10103.200  2268.300 10117.900  2268.800 10131.900
GR  2268.800 10146.600  2272.300 10156.700  2274.400 10168.100  2277.200 10178.600      .000      .000

ET      .000      .000     4.100  9953.000 10168.000      .000      .000      .000      .000      .000
NC      .080      .000      .045      .000      .000      .000      .000      .000      .000      .000
X1    10.266    17.000  9963.200 10009.000   548.000   548.000   538.000      .000      .000      .000
GR  2289.100  9934.000  2284.900  9947.200  2277.500  9963.200  2275.800  9965.700  2276.100  9984.100
GR  2276.800 10000.000  2278.200 10009.000  2278.600 10027.800  2278.200 10045.300  2277.500 10060.800
GR  2276.500 10077.300  2276.500 10088.400  2277.700 10092.300  2279.600 10111.500  2280.700 10137.100
GR  2282.400 10167.500  2285.200 10209.200      .000      .000      .000      .000      .000      .000
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ET      .000      .000     4.100  9947.000 10134.000      .000      .000      .000      .000      .000
        M-3 TRIBUTARY APPX RM. 10.332
X1    10.355    16.000  9949.500 10043.200   456.000   516.000   466.000      .000      .000      .000
GR  2298.800  9925.100  2295.900  9935.900  2293.000  9946.800  2287.000  9949.500  2287.200  9972.700
GR  2288.100  9977.400  2288.600 10000.000  2289.000 10018.000  2287.600 10023.700  2287.700 10043.200
GR  2289.100 10059.800  2288.100 10069.600  2288.300 10090.200  2291.100 10110.500  2288.600 10128.200
GR  2298.000 10142.000      .000      .000      .000      .000      .000      .000      .000      .000

NC      .000      .000      .050      .000      .000      .000      .000      .000      .000      .000
QT     2.000  4820.000  4820.000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9856.000 10041.000      .000      .000      .000      .000      .000
X1    10.445    14.000  9991.300 10025.300   552.000   484.000   478.000      .000      .000      .000
GR  2308.000  9840.000  2307.500  9842.300  2304.900  9851.400  2300.900  9865.300  2302.300  9894.000
GR  2300.100  9910.900  2301.700  9944.700  2300.000  9967.500  2299.800  9986.000  2297.700  9991.300
GR  2297.500 10000.000  2297.700 10025.300  2298.400 10034.500  2308.000 10047.000      .000      .000

NC      .075      .080      .045      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9890.000 10072.000      .000      .000      .000      .000      .000
X1    10.573    13.000  9956.500 10026.500   628.000   680.000   675.000      .000      .000      .000
GR  2324.000  9885.000  2318.300  9892.700  2316.100  9909.500  2316.200  9924.400  2317.800  9935.700
GR  2318.000  9956.500  2315.400  9980.000  2316.800 10000.000  2317.400 10026.500  2317.100 10051.300
GR  2317.600 10060.300  2322.700 10083.200  2324.100 10121.000      .000      .000      .000      .000

ET      .000      .000     4.100  9892.000 10082.000      .000      .000      .000      .000      .000
X1    10.666    13.000 10000.000 10077.900   536.000   460.000   493.000      .000      .000      .000
GR  2339.600  9882.700  2335.000  9886.600  2330.400  9900.500  2331.600  9928.800  2331.600  9969.900
GR  2331.600  9985.300  2329.200 10000.000  2331.300 10024.900  2327.400 10033.100  2327.600 10049.300
GR  2327.200 10064.000  2327.400 10077.900  2339.800 10086.700      .000      .000      .000      .000

NC      .085      .000      .050      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9919.000 10051.000      .000      .000      .000      .000      .000
X1    10.752    11.000  9956.200 10041.700   432.000   512.000   453.000      .000      .000      .000
GR  2346.000  9912.000  2341.600  9921.500  2340.200  9932.900  2340.500  9956.200  2337.600  9962.200
GR  2338.200  9977.200  2337.600  9992.700  2337.000 10000.000  2337.900 10024.000  2340.900 10041.700
GR  2345.400 10065.700      .000      .000      .000      .000      .000      .000      .000      .000

NC      .075      .075      .000      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9968.000 10064.000      .000      .000      .000      .000      .000
X1    10.850    10.000  9980.000 10052.300   652.000   516.000   515.000      .000      .000      .000
GR  2358.000  9957.000  2355.600  9966.000  2348.900  9980.000  2349.400  9987.900  2351.200 10000.000
GR  2349.300 10010.200  2349.600 10026.700  2349.400 10039.700  2349.400 10052.300  2357.300 10070.800

ET      .000      .000     4.100  9921.000 10038.000      .000      .000      .000      .000      .000
X1    10.949     7.000 10000.000 10023.200   528.000   540.000   524.000      .000      .000      .000
GR  2374.000  9908.000  2371.000  9911.000  2369.400  9915.700  2361.700 10000.000  2361.700 10023.200
GR  2369.200 10038.500  2374.000 10053.000      .000      .000      .000      .000      .000      .000

NC      .000      .000      .055      .000      .000      .000      .000      .000      .000      .000
ET      .000      .000     4.100  9948.000 10026.000      .000      .000      .000      .000      .000
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X1      1.045      9.000   9979.600  10018.100    540.000    488.000    507.000       .000       .000       .000
GR      .000    9940.000   2382.000   9943.000   2380.400   9946.800   2376.200   9953.500   2375.800   9979.600
GR   2372.100    9988.800   2372.500  10000.000   2372.500  10018.100   2384.000  10030.000       .000       .000

NC       .085       .085       .065       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9949.000  10048.000       .000       .000       .000       .000       .000
X1     11.147     13.000   9974.800  10039.800    532.000    520.000    538.000       .000       .000       .000
GR   2498.000   9942.000   2497.000   9943.500   2396.300   9945.600   2391.900   9958.000   2391.000   9974.800
GR   2390.300   9979.800   2390.900   9989.800   2390.500  10000.000   2389.100  10001.100   2389.100  10014.400
GR   2389.600  10031.700   2389.600  10039.800   2398.000  10053.000       .000       .000       .000       .000

ET       .000       .000      4.100   9974.000  10062.000       .000       .000       .000       .000       .000
X1     11.266      9.000   9980.200  10023.200    520.000    600.000    631.000       .000       .000       .000
GR   2416.000   9970.000   2410.000   9976.000   2406.100   9980.200   2404.500   9996.200   2405.000  10000.000
GR   2407.300  10023.200   2407.300  10036.600   2407.000  10052.900   2416.000  10068.000       .000       .000

ET       .000       .000      4.100   9938.000  10025.000       .000       .000       .000       .000       .000
X1     11.352      9.000   9969.900  10022.700    350.000    455.000    453.000       .000       .000       .000
GR   2430.000   9926.000   2421.700   9945.700   2421.700   9952.900   2419.300   9954.700   2419.900   9962.800
GR   2422.900   9969.900   2418.000  10000.000   2419.800  10022.700   2430.000  10028.000       .000       .000

NC       .060       .060       .000       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9939.000  10024.000       .000       .000       .000       .000       .000
X1     11.431      8.000   9978.100  10014.600    480.000    360.000    419.000       .000       .000       .000
GR   2444.000   9928.000   2442.000   9934.000   2441.200   9936.800   2433.600   9946.200   2433.600   9978.100
GR   2434.000  10000.000   2433.600  10014.600   2444.000  10033.000       .000       .000       .000       .000

NC       .000       .000       .045       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9952.000  10062.000       .000       .000       .000       .000       .000
      BOUNDARY SEC COR. 25/26/30, T7N; R1W/R2W APPX RM. 11.515
      M-2 TRIBUTARY APPX RM. 11.479
X1     11.527      9.000   9951.600  10016.900    515.000    485.000    503.000       .000       .000       .000
GR   2456.000   9944.000   2453.000   9948.000   2451.900   9951.600   2446.400   9960.400   2447.000  10000.000
GR   2447.000  10016.900   2448.000  10024.300   2447.900  10057.300   2456.000  10068.000       .000       .000

ET       .000       .000      4.100   9942.000  10026.000       .000       .000       .000       .000       .000
X1     11.636      9.000   9970.200  10018.900    585.000    570.000    577.000       .000       .000       .000
GR   2472.000   9935.000   2468.000   9941.000   2464.000   9944.000   2463.500   9946.700   2462.400   9970.200
GR   2461.000   9978.400   2461.200  10000.000   2461.000  10018.900   2472.000  10032.000       .000       .000

NC       .000       .085       .055       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9969.000  10092.000       .000       .000       .000       .000       .000
X1     11.712     14.000   9988.600  10028.100    370.000    412.000    398.000       .000       .000       .000
GR   2480.000   9927.000   2478.400   9934.000   2476.600   9951.500   2474.300   9979.100   2472.100   9988.600
GR   2471.500  10000.000   2470.800  10007.800   2472.400  10012.700   2472.400  10028.100   2473.500  10044.800
GR   2472.100  10054.700   2471.500  10062.300   2470.500  10084.400   2480.000  10097.000       .000       .000

NC       .000       .070       .000       .000       .000       .000       .000       .000       .000       .000
ET       .000       .000      4.100   9956.000  10029.000       .000       .000       .000       .000       .000
X1     11.813      6.000   9983.000  10017.300    510.000    590.000    538.000       .000       .000       .000
GR   2495.000   9951.000   2487.500   9965.200   2485.400   9983.000   2485.200  10000.000   2485.900  10017.300
GR   2495.000  10034.000       .000       .000       .000       .000       .000       .000       .000       .000
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NC	.080	.000	.045	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9942.000	10041.000	.000	.000	.000	.000	.000
X1	11.914	10.000	9975.700	10028.600	531.000	535.000	531.000	.000	.000	.000
GR	2510.000	9927.000	2506.000	9940.000	2503.600	9947.000	2501.200	9964.800	2500.800	9975.700
GR	2498.400	9977.600	2499.300	10000.000	2499.400	10007.900	2500.300	10028.600	2510.000	10052.000
NC	.085	.080	.055	.000	.000	.000	.000	.000	.000	.000
ET	.000	.000	4.100	9922.000	10049.000	.000	.000	.000	.000	.000
X1	12.018	14.000	9959.400	10023.300	535.000	560.000	546.000	.000	.000	.000
GR	2524.700	9910.700	2522.000	9918.000	2520.000	9922.000	2516.400	9930.700	2516.100	9959.400
GR	2514.500	9963.500	2515.100	9978.300	2515.100	9992.700	2515.600	10000.000	2515.800	10016.300
GR	2514.500	10023.300	2520.700	10053.200	2522.600	10086.100	2523.000	10090.000	.000	.000
EJ	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000

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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*PROF 1

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV=    .400 CEHV=    .800
*SECNO  .141
     .14    22.20  1420.10  1412.50  1420.10  1420.42      .32      .00      .00  1398.10
   14400.   5853.    4223.    4324.    1807.     629.    1282.       0.       0.   1402.30
     .00     3.24     6.72     3.37     .085     .065     .085     .000  1397.90  9768.00
  .001527      0.       0.       0.        0       13        0      .00   374.89 10142.89


FLOW DISTRIBUTION FOR SECNO=       .14          CWSEL=   1420.10

STA=    9768.    9843.    9879.    9912.    9924.    9938.    9948.    9958.    9970.    9980.   10009.   10028.   10058.
  PER Q=      3.6      3.9      6.1      4.0      6.1      3.5      4.2      5.4      3.8     29.3     10.3      7.9
   AREA=    280.3    235.2    297.4    158.6    213.0    129.7    151.2    180.2    161.1    628.6    323.5    341.6
    VEL=      1.9      2.4      3.0      3.7      4.2      3.9      4.0      4.3      3.4      6.7      4.6      3.4
STA=   10058.   10078.   10096.   10127.   10143.
  PER Q=      4.0      3.6      4.0       .3
   AREA=    189.4    171.1    221.7     34.6
    VEL=      3.1      3.0      2.6      1.1

*S[illegible].161
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     .16    18.62  1421.42  1421.42      .00  1421.94      .52      .23      .16  1412.80
   14400.   2851.    6033.    5516.     703.     791.    1407.       7.       1.   1412.80
     .00     4.05     7.63     3.92     .085     .065     .085     .000  1402.80  9871.91
  .003771     125.     104.      70.        0       12        0      .00   380.47 10252.38


FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1421.42

STA=    9872.    9880.    9920.    9979.   10021.   10120.   10145.   10240.   10252.
  PER Q=       .0      4.2     15.6     41.9     26.1      5.2      6.9       .1
   AREA=      5.7    196.6    500.7    791.1    840.5    185.4    372.0      8.8
    VEL=       .8      3.1      4.5      7.6      4.5      4.1      2.7       .8
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[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1415.43 ,NOT 1421.42 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.70	.00	42.50	2.50	400.00	.00	1403.60	1402.80

*SECNO .177
PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
1452.81	1424.23	.00	8418.	5999.	400.	400.	1413.60	1422.00

.18	22.94	1426.54	.00	.00	1426.86	.32	4.93	.00	1413.60
14400.	2315.	5909.	6175.	774.	975.	1997.	14.	2.	1413.60
.01	2.99	6.06	3.09	.085	.065	.085	.000	1403.60	9867.85
.001802	88.	88.	88.	2	0	5	.00	410.33	10278.18

FL[illegible]TRIBUTION FOR SECNO= .18 CWSEL= 1426.54

STA=	9868.	9890.	9965.	9979.	10021.	10060.	10225.	10240.	10275.	10278.
PER Q=	.3	11.2	4.6	41.0	13.0	27.4	1.0	1.5	.0	
AREA=	39.3	565.8	169.0	975.1	473.8	1327.3	68.2	124.0	4.0	
VEL=	1.1	2.8	3.9	6.1	3.9	3.0	2.0	1.7	.7	

*SECNO .187
OLD LAKE PLEASANT ACCESS RD APPX RM. 0.169

.19	23.70	1426.60	1414.47	.00	1426.96	.36	.07	.03	1407.20
14400.	4164.	9351.	884.	1275.	1700.	348.	18.	2.	1407.50
.01	3.27	5.50	2.54	.085	.065	.085	.000	1402.90	9884.51
.000987	31.	51.	71.	2	8	0	.00	229.04	10113.55

FLOW DISTRIBUTION FOR SECNO= .19 CWSEL= 1426.60

STA=	9885.	9930.	9957.	9965.	9978.	9990.	10069.	10081.	10114.
PER Q=	4.2	9.0	3.6	6.3	5.8	64.9	4.1	2.1	
AREA=	287.0	394.5	141.2	237.8	214.9	1700.5	183.5	164.3	
VEL=	2.1	3.3	3.7	3.8	3.9	5.5	3.2	1.8	

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO .278

3301 HV CHANGED MORE THAN HVINS

.28	17.65	1427.55	1423.19	.00	1429.39	1.85	1.24	1.19	1416.30
14400.	991.	12975.	434.	115.	1159.	75.	44.	4.	1418.70
.03	8.61	11.19	5.82	.085	.100	.085	.000	1409.90	9949.55
.016912	492.	484.	465.	2	11	0	.00	114.28	10063.83

FLOW DISTRIBUTION FOR SECNO= .28 CWSEL= 1427.55

STA=	9950.	9954.	9965.	10047.	10063.	10064.
PER Q=	.3	6.5	90.1	3.0	.0	
AREA=	14.3	100.8	1159.3	74.3	.3	
VEL=	3.4	9.4	11.2	5.8	.8	

*SECNO .375

3265 DIVIDED FLOW

33 CHANGED MORE THAN HVINS

.38	23.35	1439.95	1438.49	.00	1443.43	3.48	12.73	1.31	1428.70
14400.	4544.	6731.	3125.	367.	396.	229.	58.	5.	1416.60
.04	12.37	17.02	13.64	.085	.100	.085	.000	1416.60	9909.48
.040845	500.	509.	518.	2	11	0	.00	102.10	10024.59

FLOW DISTRIBUTION FOR SECNO= .38 CWSEL= 1439.95

STA=	9909.	9926.	9933.	9937.	9949.	9966.	9991.	10010.	10025.
PER Q=	6.0	10.1	5.8	4.9	4.7	46.7	21.7	.0	
AREA=	92.3	82.6	49.0	69.6	73.9	395.5	229.0	.2	
VEL=	9.4	17.7	16.9	10.2	9.2	17.0	13.6	.7	

*SECNO .460

3301 HV CHANGED MORE THAN HVINS

.46	19.98	1448.18	1439.93	.00	1448.49	.31	3.79	1.27	1436.70
14400.	377.	13952.	71.	142.	3072.	45.	80.	7.	1443.30
.06	2.66	4.54	1.57	.100	.100	.100	.000	1428.20	9953.43
.003554	418.	445.	510.	4	8	0	.00	305.67	10259.10

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= .46 CWSEL= 1448.18

STA=	9953.	9978.	10241.	10259.
PER Q=	2.6	96.9	.5	
AREA=	141.6	3072.4	45.4	
VEL=	2.7	4.5	1.6	

*SECNO .548

3301 HV CHANGED MORE THAN HVINS

.55	9.87	1451.67	1449.84	.00	1453.42	1.75	3.78	1.15	1448.30
14400.	47.	14269.	84.	13.	1340.	19.	105.	10.	1446.90
.08	3.62	10.65	4.38	.100	.100	.100	.000	1441.80	9950.59
.033328	516.	468.	268.	3	18	0	.00	186.12	10136.71

FLOW DISTRIBUTION FOR SECNO= .55 CWSEL= 1451.67

STA=	9951.	9958.	10129.	10137.
PER Q=	.3	99.1	.6	
AREA=	13.0	1340.1	19.1	
[illegible]	3.6	10.6	4.4	

*SECNO .643

3301 HV CHANGED MORE THAN HVINS

.64	12.87	1462.07	1457.36	.00	1463.03	.95	9.29	.32	1456.60
14400.	131.	14045.	223.	39.	1776.	59.	123.	12.	1453.70
.09	3.37	7.91	3.79	.100	.100	.100	.000	1449.20	9889.32
.011763	440.	502.	520.	3	15	0	.00	191.59	10080.91

FLOW DISTRIBUTION FOR SECNO= .64 CWSEL= 1462.07

STA=	9889.	9897.	9904.	10067.	10081.
PER Q=	.1	.8	97.5	1.6	
AREA=	8.5	30.6	1776.2	59.0	
VEL=	1.9	3.8	7.9	3.8	

*SECNO .711

.71	12.66	1466.56	1462.55	.00	1467.56	.99	4.50	.03	1464.10
14400.	9.	12959.	1432.	5.	1559.	329.	139.	14.	1458.90
.11	1.77	8.31	4.36	.100	.100	.100	.000	1453.90	9909.91
.013260	335.	360.	370.	4	14	0	.00	237.74	10147.65

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                DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
                QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=       .71          CWSEL=   1466.56

STA=    9910.    9914.   10058.   10074.   10089.   10115.   10138.   10148.
  PER Q=       .1     90.0      3.7      2.0      2.6      1.4       .2
   AREA=      4.9   1559.0     96.6     64.3     93.9     62.1     11.9
    VEL=      1.8      8.3      5.5      4.5      4.0      3.3      1.9

*SECNO  .806
      .81    14.76  1473.26  1468.62      .00  1474.55     1.29     6.76      .24  1465.90
   14400.     456.   13344.     599.     112.    1421.     138.     159.      16.   1465.10
      .12     4.06     9.39     4.35     .100     .100     .100     .000  1458.50  9935.86
  .013619     550.     504.     480.        2       15        0      .00   175.12 10110.97


FLOW DISTRIBUTION FOR SECNO=       .81          CWSEL=   1473.26

STA=    9936.    9966.   10077.   10111.
  PER Q=      3.2     92.7      4.2
   AREA=    112.5   1421.2    137.9
    VEL=      4.1      9.4      4.3

*SECNO  .950
      .95    10.63  1479.03  1477.78      .00  1480.52     1.50     5.80      .17  1473.10
   14400.     379.   13921.     100.     124.    1397.      39.     188.      20.   1476.00
      .14     3.05     9.97     2.55     .070     .035     .075     .000  1468.40  9851.79
  .004903     740.     757.     800.        4       14        0      .00   285.29 10137.08


FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1479.03

STA=    9852.    9894.   10120.   10132.   10137.
  PER Q=      2.6     96.7       .6       .1
   AREA=    124.4   1396.8     32.9      6.2
    VEL=      3.0     10.0      2.7      1.5

*SECNO 1.010

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.01     8.42  1483.42  1483.42      .00  1486.11     2.69     2.21      .95  1481.10
   14400.      40.   14356.       5.      17.    1089.       3.     198.      22.   1481.00
      .15     2.37    13.18     1.43     .070     .035     .100     .000  1475.00  9819.80
  .010408     470.     318.     255.        0       15        0      .00   221.59 10041.40
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[illegible]  DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
[illegible]  QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
TIME         VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
SLOPE        XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1483.42

STA=    9820.    9834.   10039.   10041.
  PER Q=       .3     99.7       .0
   AREA=     16.7   1089.4      3.4
    VEL=      2.4     13.2      1.4

*SECNO 1.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.11     9.76  1491.76  1491.76      .00  1495.88     4.13     4.90     1.15  1484.80
   14400.      74.   13709.     617.      22.     822.     150.     210.      24.   1484.70
      .16     3.42    16.68     4.13     .070     .035     .100     .000  1482.00  9955.66
  .008429     483.     524.     550.        0        8        0      .00   129.63 10085.30


FLOW DISTRIBUTION FOR SECNO=      1.11          CWSEL=   1491.76

STA=    9956.    9962.   10055.   10076.   10085.
  P[illegible]=       .5     95.2      3.9       .4
[illegible]=     21.7    821.9    126.3     23.3
   VEL=      3.4     16.7      4.5      2.3

*SECNO 1.210

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.21    11.42  1498.22  1498.22      .00  1503.10     4.88     4.31      .61  1488.50
   14400.    1946.   12303.     151.     258.     649.      49.     222.      26.   1486.80
      .17     7.54    18.95     3.07     .070     .035     .100     .000  1486.80  9922.80
  .008217     500.     519.     522.        0        8        0      .00   104.51 10027.31


FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1498.22

STA=    9923.    9936.    9943.    9959.   10019.   10027.
  PER Q=      1.3      3.3      8.9     85.4      1.0
   AREA=     46.6     61.7    150.0    649.4     49.2
    VEL=      4.1      7.6      8.5     18.9      3.1
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.300
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.30    13.69  1505.29  1505.29      .00  1510.21     4.93     3.80      .04  1491.60
   14400.     210.   10925.    3265.      48.     539.     641.     234.      27.  1492.70
      .18     4.38    20.25     5.09     .070     .035     .100     .000  1491.60  9969.15
  .007279     485.     491.     501.        0       11        0      .00   137.19 10106.34


FLOW DISTRIBUTION FOR SECNO=      1.30          CWSEL=   1505.29

STA=    9969.    9972.    9976.   10017.   10031.   10034.   10052.   10069.   10088.   10091.   10106.
  PER Q=      .1      1.4     75.9      7.3      1.4      5.4      3.8      3.6       .5       .6
   AREA=     6.2     41.8    539.5    162.9     34.6    148.5    118.3    120.3     18.3     38.5
    VEL=     2.0      4.7     20.3      6.5      5.8      5.3      4.7      4.3      3.9      2.3

*SECNO 1.384

3301 HV CHANGED MORE THAN HVINS

        BOUNDARY SECTION LINE 19/20, T6N; R1E APPX RM. 1.323
     1.38    14.27  1511.47  1508.85      .00  1513.39     1.92     1.98     1.20  1499.40
   [illegible]   3470.    9821.    1109.     806.     747.     260.     250.      29.  1497.20
   [illegible]9    4.30    13.14     4.27     .075     .035     .075     .000  1497.20  9853.45
  .003002     525.     442.     385.        5       15        0      .00   208.17 10061.61


FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1511.47

STA=    9853.    9868.    9888.    9898.    9910.    9929.    9945.    9957.    9969.   10024.   10039.   10062.
  PER Q=      .3      2.3      1.8      2.1      3.8      4.1      4.5      5.1     68.2      6.0      1.7
   AREA=    28.3    103.9     67.7     80.1    134.6    132.3    128.4    130.7    747.4    168.7     90.9
    VEL=     1.7      3.3      3.9      3.8      4.0      4.5      5.1      5.6     13.1      5.2      2.6

*SECNO 1.477

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     1.48    11.68  1515.58  1515.58      .00  1520.37     4.80     2.24     2.30  1504.00
   14400.     829.   11317.    2253.     134.     581.     312.     265.      31.  1504.00
      .20     6.21    19.49     7.23     .075     .035     .075     .000  1503.90  9948.45
  .008049     440.     489.     500.        0       15        0      .00   113.27 10061.72
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TWA	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.48 CWSEL= 1515.58

STA=	9948.	9953.	9969.	10020.	10032.	10052.	10061.	10062.
PER Q=	.2	5.6	78.6	7.9	7.1	.6	.0	
AREA=	9.8	123.7	580.8	132.1	152.6	26.8	.3	
VEL=	2.4	6.5	19.5	8.7	6.7	3.5	.7	

*SECNO 1.574

3301 HV CHANGED MORE THAN HVINS

1.57	10.97	1521.97	1520.86	.00	1524.99	3.01	3.90	.71	1512.40
14400.	2012.	11757.	631.	330.	776.	116.	278.	32.	1511.00
.21	6.10	15.16	5.43	.075	.040	.070	.000	1511.00	9905.32
.007290	460.	512.	540.	4	11	0	.00	154.51	10059.82

FLOW DISTRIBUTION FOR SECNO= 1.57 CWSEL= 1521.97

STA=	9905.	9933.	9936.	9946.	9965.	10039.	10059.	10060.
PER Q=	1.3	.7	4.0	8.0	81.6	4.4	.0	
AREA=	63.2	22.2	83.7	160.5	775.6	115.7	.5	
VEL=	2.9	4.3	7.0	7.1	15.2	5.5	.9	

*SECNO 1.658

3301 HV CHANGED MORE THAN HVINS

1.66	10.14	1525.74	1525.59	.00	1529.31	3.57	3.87	.44	1515.60
14400.	273.	12678.	1449.	48.	793.	220.	290.	34.	1517.40
.21	5.63	15.98	6.58	.075	.040	.070	.000	1515.60	9952.26
.010577	438.	445.	452.	2	11	0	.00	146.63	10098.90

FLOW DISTRIBUTION FOR SECNO= 1.66 CWSEL= 1525.74

STA=	9952.	9954.	9957.	9962.	10054.	10075.	10095.	10099.
PER Q=	.0	.3	1.6	88.0	7.0	3.0	.1	
AREA=	1.5	11.2	35.7	793.2	135.4	78.3	6.4	
VEL=	1.5	3.5	6.5	16.0	7.4	5.4	2.5	

*SECNO 1.750

```
[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME          VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE         XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

     1.75     9.24  1532.74  1531.65      .00  1534.93     2.19     5.07      .55  1527.60
   14400.     4502.    9112.     787.     602.     658.     131.     304.      36.   1526.60
      .23     7.48    13.85     5.99     .075     .040     .070     .000  1523.50  9866.27
  .010074     540.     487.     425.        3       15        0      .00   207.66 10073.93


FLOW DISTRIBUTION FOR SECNO=      1.75          CWSEL=   1532.74

STA=    9866.    9877.    9890.    9903.    9911.    9927.    9941.    9953.   10045.   10054.   10074.
  PER Q=      .9      4.7      5.7      4.0      8.5      4.9      2.5     63.3      3.2      2.3
   AREA=    35.0     92.2    103.7     68.6    143.0     99.2     60.2    657.8     62.1     69.1
    VEL=     3.9      7.3      8.0      8.4      8.6      7.1      6.0     13.9      7.4      4.7

*SECNO 1.831

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
[illegible]3    12.26  1541.96  1541.96      .00  1546.42     4.46     4.66     1.81  1531.30
[illegible]0.    1567.   11383.    1449.     219.     611.     178.     316.      37.   1532.10
      .23     7.15    18.64     8.13     .080     .045     .070     .000  1529.70  9944.85
  .011919     450.     428.     340.        0       11        0      .00   123.57 10068.42


FLOW DISTRIBUTION FOR SECNO=      1.83          CWSEL=   1541.96

STA=    9945.    9961.    9970.    9987.   10039.   10058.   10068.
  PER Q=      .6      1.8      8.5     79.1      9.2       .9
   AREA=    28.6     46.0    144.6    610.6    148.8     29.5
    VEL=     2.9      5.8      8.4     18.6      8.9      4.2

*SECNO 1.926

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        M-13 TRIBUTARY APPX RM 1.852
     1.93    16.00  1551.30  1551.30      .00  1556.29     4.99     5.53      .42  1537.40
   14400.     2064.   11884.     452.     318.     610.      68.     327.      39.   1540.50
      .24     6.48    19.50     6.65     .080     .045     .070     .000  1535.30  9926.74
  .010216     515.     500.     496.        0       11        0      .00   110.66 10037.41
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 1.93 CWSEL= 1551.30

STA=	9927.	9930.	9931.	9942.	9952.	9965.	9974.	9984.	10026.	10034.	10037.
PER Q=	.0	.0	.9	1.5	2.4	3.2	6.3	82.5	2.9	.2	
AREA=	2.1	2.1	32.8	44.2	62.4	67.7	107.1	609.6	58.1	10.0	
VEL=	1.3	2.4	4.0	4.9	5.4	6.7	8.5	19.5	7.3	2.9	

*SECNO 2.014

3301 HV CHANGED MORE THAN HVINS

2.01	13.93	1557.33	1556.73	.00	1561.46	4.13	4.83	.34	1546.60
14400.	2896.	9393.	2111.	314.	495.	220.	337.	40.	1544.20
.25	9.23	18.99	9.58	.070	.045	.070	.000	1543.40	9927.30
.011229	385.	462.	485.	3	15	0	.00	104.90	10032.20

FLOW DISTRIBUTION FOR SECNO= 2.01 CWSEL= 1557.33

STA=	9927.	9932.	9948.	9954.	9967.	10006.	10018.	10027.	10032.
PER Q=	.4	6.1	3.7	10.0	65.2	10.1	4.1	.4	
AREA=	15.1	106.8	55.3	136.3	494.6	133.6	69.2	17.4	
[illegible]	3.5	8.2	9.5	10.5	19.0	10.9	8.5	3.7	

*SECNO 2.114

3301 HV CHANGED MORE THAN HVINS

2.11	12.51	1564.11	1561.96	.00	1566.40	2.29	4.20	.74	1552.80
14400.	1569.	11626.	1205.	251.	882.	208.	352.	41.	1554.50
.26	6.25	13.18	5.80	.070	.045	.070	.000	1551.60	9931.83
.005979	540.	529.	485.	3	15	0	.00	146.59	10078.41

FLOW DISTRIBUTION FOR SECNO= 2.11 CWSEL= 1564.11

STA=	9932.	9936.	9948.	9958.	9969.	10044.	10059.	10069.	10078.
PER Q=	.1	2.0	3.0	5.8	80.7	5.6	2.3	.5	
AREA=	7.5	60.6	70.6	112.4	882.3	121.5	61.9	24.5	
VEL=	2.0	4.7	6.2	7.4	13.2	6.6	5.4	2.8	

*SECNO 2.209

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

2.21	10.74	1567.94	1567.71	.00	1571.50	3.56	4.09	1.02	1558.60
14400.	2095.	12044.	262.	295.	741.	47.	366.	43.	1557.70
.27	7.10	16.26	5.59	.070	.045	.065	.000	1557.20	9887.66
.011663	510.	503.	490.	2	15	0	.00	147.17	10034.83

FLOW DISTRIBUTION FOR SECNO= 2.21 CWSEL= 1567.94

STA=	9888.	9891.	9896.	9912.	9926.	9937.	9944.	9950.	10026.	10035.
PER Q=	.0	.2	2.0	2.9	3.1	2.9	3.4	83.6	1.8
AREA=	1.2	9.8	54.0	66.6	61.5	51.1	51.0	740.5	46.8
VEL=	1.3	3.3	5.2	6.3	7.2	8.3	9.7	16.3	5.6

*SECNO 2.287

3301 HV CHANGED MORE THAN HVINS

2.29	11.03	1573.13	1572.40	.00	1576.10	2.96	4.36	.24	1564.60
14400.	513.	12045.	1842.	86.	814.	264.	376.	44.	1565.50
[illegible]8	5.94	14.80	6.99	.070	.045	.065	.000	1562.10	9936.98
[illegible]5	372.	413.	500.	3	8	0	.00	151.60	10088.59

FLOW DISTRIBUTION FOR SECNO= 2.29 CWSEL= 1573.13

STA=	9937.	9945.	9957.	10039.	10051.	10073.	10088.	10089.
PER Q=	.3	3.2	83.6	4.3	6.8	1.6	.0
AREA=	15.9	70.5	813.9	79.4	134.6	49.3	.2
VEL=	3.0	6.6	14.8	7.9	7.3	4.8	.8

*SECNO 2.391

BOUNDARY SECTION 19/24, T6N; R1E/R1W APPX RM. 2.465

2.39	10.51	1579.31	1579.19	.00	1581.93	2.62	5.70	.13	1575.00
14400.	1367.	9772.	3260.	253.	647.	456.	392.	47.	1572.30
.29	5.40	15.10	7.15	.070	.045	.070	.000	1568.80	9901.43
.012088	550.	545.	485.	1	11	0	.00	242.92	10144.35

FLOW DISTRIBUTION FOR SECNO= 2.39 CWSEL= 1579.31

STA=	9901.	9945.	9970.	9975.	10050.	10068.	10092.	10107.	10132.	10144.
PER Q=	4.9	3.9	.7	67.9	7.3	8.1	3.6	3.1	.5
AREA=	139.4	95.5	18.4	647.3	124.2	149.4	76.5	84.3	21.7
VEL=	5.1	5.8	5.5	15.1	8.5	7.8	6.8	5.3	3.5

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                DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
                QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2.476

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.48    11.81  1586.91  1586.91      .00  1590.44     3.53     5.31      .73  1580.80
   14400.    3331.   10420.     649.     457.     607.      99.     405.      49.   1575.90
      .30     7.29    17.16     6.57     .070     .045     .070     .000  1575.10  9890.19
  .011641     444.     449.     448.        0        8        0      .00   161.44 10051.62


FLOW DISTRIBUTION FOR SECNO=      2.48          CWSEL=   1586.91

STA=    9890.    9892.    9905.    9923.    9936.    9958.    9974.   10031.   10047.   10052.
  PER Q=      .0      1.5      5.2      4.6      7.1      4.7     72.4      4.5       .0
   AREA=     1.1     44.3    101.3     82.6    134.4     93.0    607.1     97.5      1.3
    VEL=     1.4      4.9      7.4      7.9      7.6      7.3     17.2      6.6      1.0

*SECNO 2.577

3301 HV CHANGED MORE THAN HVINS

71[illegible]IMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.58    11.30  1593.40  1593.40      .00  1597.89     4.49     6.53      .77  1583.30
   14400.     561.   13671.     168.      86.     786.      37.     417.      50.   1587.80
      .31     6.49    17.40     4.58     .070     .045     .070     .000  1582.10  9970.78
  .013178     500.     532.     536.        0        8        0      .00   109.42 10080.21


FLOW DISTRIBUTION FOR SECNO=      2.58          CWSEL=   1593.40

STA=    9971.    9988.   10067.   10080.
  PER Q=      3.9     94.9      1.2
   AREA=     86.5    785.9     36.7
    VEL=      6.5     17.4      4.6

*SECNO 2.679

3301 HV CHANGED MORE THAN HVINS

     2.68    11.34  1602.84  1599.78      .00  1604.11     1.27     4.93     1.29  1595.40
   14400.    5447.    7722.    1231.     855.     704.     281.     434.      53.   1592.50
      .33     6.37    10.97     4.37     .085     .050     .075     .000  1591.50  9883.57
  .006681     564.     537.     488.        3       15        0      .00   245.52 10129.10
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      2.68          CWSEL=   1602.84

STA=    9884.    9896.    9909.    9925.    9932.    9946.    9963.    9975.   10048.   10072.   10129.
  PER Q=      4.1      5.7      6.4      3.1      7.6      7.3      3.6     53.6      6.3      2.3
   AREA=    104.0    127.0    144.8     69.8    155.1    162.8     91.9    704.1    160.4    121.0
    VEL=      5.7      6.5      6.3      6.5      7.1      6.4      5.6     11.0      5.6      2.7

*SECNO 2.764

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.76     8.74  1607.74  1607.74      .00  1611.14     3.40     4.98     1.71  1599.60
   14200.    3561.    8046.    2593.     353.     461.     241.     450.      55.  1599.30
      .34    10.08    17.45    10.78     .070     .050     .070     .000  1599.00  9910.82
  .020126     532.     451.     360.        0       15        0      .00   156.69 10067.52


FLOW DISTRIBUTION FOR SECNO=      2.76          CWSEL=   1607.74

STA=    9911.    9921.    9936.    9948.    9958.    9968.    9976.   10030.   10043.   10061.   10068.
  PER Q=       .3      3.6      6.5      5.4      5.3      4.1     56.7      8.6      8.9       .7
   [illegible]     11.8     64.4     84.7     69.0     70.4     52.8    461.1    102.4    117.9     20.3
    VEL=      3.2      8.0     10.9     11.1     10.6     10.9     17.4     12.0     10.7      5.2

*SECNO 2.882
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9899.0   10110.0  TYPE=     1  TARGET=     211.000
        M-12 TRIBUTARY APPX RM. 2.724
     2.88    11.10  1618.00  1618.00      .00  1621.51     3.51     8.16      .08  1609.40
   14200.     939.   11329.    1932.     196.     685.     282.     466.      57.  1610.50
      .35     4.79    16.53     6.84     .070     .040     .070     .000  1606.90  9911.46
  .009041     624.     627.     644.        0       11        0      .00   185.12 10096.58


FLOW DISTRIBUTION FOR SECNO=      2.88          CWSEL=   1618.00

STA=    9911.    9944.    9965.    9971.    9980.   10047.   10059.   10075.   10085.   10097.
  PER Q=      1.0      1.8      1.0      2.8     79.8      4.7      5.9      2.5       .6
   AREA=     49.1     62.5     26.9     57.4    685.2     87.7    113.3     56.5     24.9
    VEL=      2.8      4.1      5.2      7.0     16.5      7.6      7.4      6.3      3.2
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 2.963
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     2.96    10.97  1624.77  1624.77      .00  1628.58     3.81     3.85      .25  1617.40
   14200.     530.   12911.     759.     114.     789.     145.     477.      59.   1617.20
      .36     4.67    16.36     5.24     .070     .040     .070     .000  1613.80  9908.49
  .009087     420.     425.     420.        0        5        0      .00   156.58 10065.07


FLOW DISTRIBUTION FOR SECNO=      2.96          CWSEL=   1624.77

STA=    9908.    9927.    9941.    9951.   10030.   10064.   10065.
  PER Q=      .3      1.2      2.3     90.9      5.3       .0
   AREA=    19.1     40.4     54.1    789.1    144.2       .8
    VEL=     2.1      4.1      6.0     16.4      5.3      1.1

*SECNO 3.058

3301 HV CHANGED MORE THAN HVINS

     3.06     9.89  1631.19  1630.71      .00  1634.29     3.10     5.43      .29  1621.60
   14200.    2055.    7591.    4554.     252.     438.     474.     489.      61.   1621.50
      [illegible]37     8.14    17.33     9.60     .070     .045     .070     .000  1621.30  9929.79
      [illegible]8     520.     503.     480.        3       11        0      .00   155.52 10085.30


FLOW DISTRIBUTION FOR SECNO=      3.06          CWSEL=   1631.19

STA=    9930.    9943.    9957.    9969.    9975.   10020.   10031.   10046.   10058.   10072.   10085.
  PER Q=      1.2      4.7      5.0      3.6     53.5      8.1      9.8      7.1      5.8      1.3
   AREA=    36.6     82.7     80.5     52.7    438.0    107.2    133.6    100.7     94.4     38.5
    VEL=     4.5      8.0      8.9      9.8     17.3     10.7     10.4     10.0      8.8      4.7

*SECNO 3.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.13    10.09  1637.69  1637.69      .00  1640.92     3.23     4.38      .10  1628.30
   14200.    1204.   10872.    2124.     182.     676.     329.     499.      62.   1628.20
      .37     6.60    16.07     6.45     .070     .045     .070     .000  1627.60  9939.57
  .011166     368.     363.     356.        0        5        0      .00   190.81 10130.38
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.13 CWSEL= 1637.69

STA=	9940.	9951.	9975.	9985.	10054.	10061.	10076.	10091.	10110.	10120.	10130.
PER Q=	.2	3.5	4.8	76.6	3.5	4.0	3.2	3.3	.9	.2	
AREA=	10.6	91.0	80.7	676.4	59.6	81.1	70.4	80.3	28.0	10.1	
VEL=	2.1	5.5	8.5	16.1	8.2	7.1	6.4	5.8	4.5	2.1	

*SECNO 3.219

3301 HV CHANGED MORE THAN HVINS

3.22	11.56	1643.96	1641.56	.00	1645.21	1.25	3.51	.79	1634.70
14200.	3205.	9894.	1102.	667.	967.	194.	516.	64.	1634.70
.39	4.80	10.23	5.67	.070	.050	.070	.000	1632.40	9827.51
.005113	468.	482.	504.	2	11	0	.00	253.65	10081.16

FLOW DISTRIBUTION FOR SECNO= 3.22 CWSEL= 1643.96

STA=	9828.	9838.	9850.	9870.	9885.	9905.	9929.	9949.	9959.	10051.	10064.	10076.	10081.
PER Q=	.2	.8	1.7	1.9	3.7	5.9	5.1	3.4	69.7	5.5	2.2	.1	
AREA=	14.0	35.3	69.5	66.1	110.7	156.9	132.9	81.7	966.8	118.7	68.5	7.1	
	1.8	3.1	3.5	4.0	4.8	5.3	5.4	6.0	10.2	6.6	4.5	1.7	

*SECNO 3.303

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9898.0 10160.0 TYPE= 1 TARGET= 262.000
M-11 TRIBUTARY APPX RM. 3.359

3.30	9.40	1647.70	1647.70	.00	1650.35	2.65	3.71	1.12	1640.40
14200.	1909.	7289.	5001.	308.	435.	646.	532.	67.	1640.70
.40	6.20	16.76	7.74	.075	.045	.080	.000	1638.30	9898.39
.015493	448.	445.	464.	0	15	0	.00	261.61	10160.00

FLOW DISTRIBUTION FOR SECNO= 3.30 CWSEL= 1647.70

STA=	9898.	9948.	9979.	9990.	10042.	10059.	10088.	10103.	10115.	10123.	10152.	10160.
PER Q=	3.6	6.0	3.9	51.3	7.1	11.3	5.2	5.0	3.4	3.2	.1	
AREA=	110.0	130.7	67.1	434.9	117.3	195.5	94.9	82.4	59.1	92.3	4.7	
VEL=	4.7	6.5	8.2	16.8	8.6	8.2	7.8	8.7	8.1	4.9	1.6	

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.400

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3.40	11.00	1657.20	1657.20	.00	1660.85	3.65	5.89	.80	1647.30
14200.	1323.	11360.	1517.	172.	675.	306.	547.	70.	1647.50
.41	7.70	16.84	4.96	.075	.040	.075	.000	1646.20	9946.75
.008899	500.	510.	520.	0	11	0	.00	205.37	10152.12

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1657.20

STA=	9947.	9950.	9956.	9968.	10032.	10081.	10097.	10114.	10125.	10144.	10152.
PER Q=	.2	2.3	6.8	80.0	10.2	.1	.1	.1	.2	.0	
AREA=	11.1	44.8	115.9	674.7	259.7	11.0	10.2	8.2	14.4	2.3	
VEL=	2.4	7.3	8.4	16.8	5.6	1.5	1.3	1.5	1.5	.8	

*SECNO 3.473

3301 HV CHANGED MORE THAN HVINS

NEW LAKE PLEASANT RD. APPX RM. 3.505

3.47	11.93	1662.23	1658.80	.00	1663.59	1.37	1.83	.91	1653.40
14200.	573.	12883.	744.	155.	1319.	188.	560.	72.	1653.10
.42	3.69	9.77	3.97	.070	.040	.070	.000	1650.30	9932.00
.002912	396.	388.	392.	3	15	0	.00	185.19	10117.19

FLOW DISTRIBUTION FOR SECNO= 3.47 CWSEL= 1662.23

STA=	9932.	9944.	9962.	10085.	10095.	10110.	10117.
PER Q=	.4	3.6	90.7	2.9	2.2	.1	
AREA=	30.7	124.6	1318.8	86.8	88.5	12.3	
VEL=	2.0	4.1	9.8	4.7	3.6	1.6	

*SECNO 3.492

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

S	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
3.49	17.27	1670.37	1670.37	.00	1674.98	4.62	.51	2.60	1666.10
14200.	862.	12804.	534.	175.	708.	109.	563.	72.	1666.10
.42	4.93	18.09	4.91	.070	.040	.070	.000	1653.10	9925.75
.010220	72.	102.	140.	0	11	0	.00	128.31	10054.06

FLOW DISTRIBUTION FOR SECNO= 3.49 CWSEL= 1670.37

STA=	9926.	9940.	9980.	10021.	10045.	10054.
PER Q=	.5	5.6	90.2	3.5	.3	
AREA=	24.0	150.8	707.9	93.5	15.3	
VEL=	3.0	5.2	18.1	5.2	2.9	

SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS 1666.13 ,NOT 1670.37 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB	XK	XKOR	COFQ	RDLEN	BWC	BWP	BAREA	SS	ELCHU	ELCHD
	1.25	1.56	2.70	.00	41.00	2.00	507.00	.00	1655.10	1653.10

*SECNO 3.520

330 CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW

EGPRS	EGLWC	H3	QWEIR	QPR	BAREA	TRAPEZOID AREA	ELLC	ELTRD
1689.37	1679.71	.00	1154.	13081.	507.	507.	1668.10	1684.60
3.52	31.31	1686.41	.00	.00	1686.49	.08	11.51	.00	1655.10
14200.	4533.	4406.	5261.	3432.	1284.	3206.	578.	73.	1655.10
.44	1.32	3.43	1.64	.070	.040	.070	.000	1655.10	9732.22
.000086	146.	146.	146.	2	0	3	.00	455.33	10187.55

FLOW DISTRIBUTION FOR SECNO= 3.52 CWSEL= 1686.41

STA=	9732.	9800.	9900.	9980.	10021.	10100.	10160.	10188.
PER Q=	1.2	9.1	21.6	31.0	30.2	6.8	.1	
AREA=	304.3	1231.1	1896.9	1283.7	2302.4	870.6	33.2	
VEL=	.6	1.1	1.6	3.4	1.9	1.1	.2	

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 S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3.537
    3.54    30.00  1686.40  1667.94      .00  1686.59      .19      .01      .09  1656.40
   14200.   3545.    6449.    4205.    2093.    1350.    1975.     592.      74.  1657.70
     .45     1.69     4.78     2.13     .080     .045     .080     .000  1656.40  9795.47
  .000232    102.      92.      82.        2       18        0      .00   364.43 10159.89


FLOW DISTRIBUTION FOR SECNO=      3.54          CWSEL=   1686.40

STA=    9795.    9888.    9920.    9941.    9954.    9974.   10020.   10035.   10049.   10064.   10083.   10115.   10160.
  PER Q=     4.9      4.7      4.3      3.4      7.8     45.4      8.0      7.2      5.9      4.8      3.4       .3
   AREA=   595.7    416.2    343.7    240.0    497.5   1350.4    428.3    389.8    365.0    359.8    345.6     86.0
    VEL=     1.2      1.6      1.8      2.0      2.2      4.8      2.6      2.6      2.3      1.9      1.4       .5

*SECNO 3.569
    3.57    26.86  1686.56  1668.21      .00  1686.66      .10      .03      .04  1662.00
   14200.   2520.    7862.    3818.    1861.    2486.    2953.     616.      75.  1661.80
     .47     1.35     3.16     1.29     .080     .045     .080     .000  1659.70  9795.69
  .000118    196.     167.     144.        2       14        0      .00   447.84 10243.53


FLOW DISTRIBUTION FOR SECNO=      3.57          CWSEL=   1686.56

ST[illegible]9796.    9881.    9905.    9921.    9937.   10032.   10052.   10076.   10092.   10122.   10171.   10221.   10244.
  PER Q=     3.7      4.8      4.5      4.7     55.4      5.8      5.6      3.3      5.2      3.0      3.5       .4
   AREA=   615.9    474.6    377.0    393.8   2486.1    490.1    514.1    325.0    535.8    468.3    517.1    102.4
    VEL=      .9      1.4      1.7      1.7      3.2      1.7      1.5      1.5      1.4       .9       .9       .6

*SECNO 3.673
    3.67    19.11  1686.71  1674.03      .00  1686.74      .03      .06      .03  1672.90
   13900.   4184.    5102.    4614.    4271.    2601.    3610.     728.      83.  1671.50
     .57      .98     1.96     1.28     .080     .050     .070     .000  1667.60  9589.83
  .000099    580.     550.     512.        2       17        0      .00   778.41 10368.25


FLOW DISTRIBUTION FOR SECNO=      3.67          CWSEL=   1686.71

STA=    9590.    9656.    9704.    9739.    9790.    9847.    9883.    9930.    9949.   10100.   10129.   10153.   10180.
  PER Q=     3.2      4.0      3.3      4.2      4.7      3.2      5.3      2.1     36.7      4.3      3.6      3.3
   AREA=   557.1    578.8    453.1    602.8    683.0    448.5    678.9    269.0   2600.6    456.9    378.7    378.4
    VEL=      .8      1.0      1.0      1.0      1.0      1.0      1.1      1.1      2.0      1.3      1.3      1.2
STA=   10180.   10204.   10231.   10256.   10283.   10320.   10368.
  PER Q=     3.4      5.0      4.6      4.3      3.8       .9
   AREA=   369.3    477.4    448.0    439.0    465.7    196.3
    VEL=     1.3      1.4      1.4      1.4      1.1       .6
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 ST[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 3.764
        BOUNDARY SEC 23/24, T6N; R1W APPX RM. 3.699
        M-10 TRIBUTARY APPX RM. 3.714
     3.76    10.40  1686.80  1683.12      .00  1687.08      .28      .14      .20  1681.30
   13900.    2048.    8014.    3838.     997.    1582.    1267.     819.      92.  1680.20
      .61     2.05     5.06     3.03     .080     .050     .070     .000  1676.40  9702.80
  .001755     464.     477.     708.        2       22        0      .00   657.51 10360.31


FLOW DISTRIBUTION FOR SECNO=      3.76          CWSEL=   1686.80

STA=    9703.    9782.    9856.    9927.    9960.   10151.   10171.   10193.   10216.   10267.   10291.   10319.   10344.
  PER Q=      4.0      3.0      4.2      3.5     57.7      3.2      4.4      4.4      5.4      3.0      3.5      3.0
   AREA=    280.4    240.7    280.7    195.1   1582.3    138.0    171.0    175.7    274.5    142.9    167.0    145.1
    VEL=      2.0      1.7      2.1      2.5      5.1      3.2      3.6      3.4      2.7      2.9      2.9      2.9
STA=   10344.   10360.
  PER Q=       .8
   AREA=     53.3
    VEL=      2.0

*SECNO 3.862

330[illegible] CHANGED MORE THAN HVINS

7185 [illegible]NIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     3.86     7.85  1691.15  1691.15      .00  1692.93     1.79     2.18     1.21  1687.90
   13900.      28.    6796.    7075.       8.     504.     984.     849.      98.  1687.80
      .63     3.43    13.48     7.19     .080     .055     .070     .000  1683.30  9952.63
  .022528     448.     518.     504.        0       19        0      .00   400.21 10352.84


FLOW DISTRIBUTION FOR SECNO=      3.86          CWSEL=   1691.15

STA=    9953.    9958.   10040.   10064.   10085.   10101.   10118.   10134.   10150.   10195.   10233.   10263.   10308.
  PER Q=       .2     48.9      4.1      6.1      3.9      4.2      4.5      3.5      4.4      4.9      4.0      5.4
   AREA=      8.2    504.2     80.2     96.8     66.4     70.5     72.0     62.0    106.5    106.0     87.1    118.0
    VEL=      3.4     13.5      7.2      8.7      8.1      8.2      8.6      8.0      5.8      6.4      6.4      6.3
STA=   10308.   10338.   10353.
  PER Q=      5.6       .3
   AREA=    104.1     14.8
    VEL=      7.4      3.1
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.946

3301 HV CHANGED MORE THAN HVINS

3.95	7.51	1699.41	1698.11	.00	1700.40	.99	7.15	.32	1694.90
13900.	3310.	10373.	218.	539.	1212.	50.	867.	103.	1694.30
.64	6.13	8.56	4.40	.070	.055	.070	.000	1691.90	9798.29
.010970	448.	447.	532.	4	15	0	.00	388.19	10186.48

FLOW DISTRIBUTION FOR SECNO= 3.95 CWSEL= 1699.41

STA=	9798.	9826.	9881.	9892.	9907.	9923.	9933.	10163.	10186.
PER Q=	4.0	4.3	3.4	5.8	4.3	2.0	74.6	1.6	
AREA=	100.6	138.2	64.8	103.0	87.3	45.6	1212.4	49.5	
VEL=	5.5	4.3	7.3	7.9	6.8	6.2	8.6	4.4	

*SECNO 4.049

3265 DIVIDED FLOW

33[illegible] CHANGED MORE THAN HVINS

4.05	7.96	1707.06	1706.91	.00	1708.92	1.86	7.83	.69	1703.30
13900.	4638.	8930.	332.	707.	700.	58.	887.	107.	1700.40
.66	6.56	12.76	5.73	.080	.055	.080	.000	1699.10	9604.00
.020969	500.	542.	524.	3	8	0	.00	391.66	10031.42

FLOW DISTRIBUTION FOR SECNO= 4.05 CWSEL= 1707.06

STA=	9604.	9722.	9794.	9806.	9815.	9836.	9852.	9885.	9896.	10014.	10031.
PER Q=	3.5	5.7	4.1	3.4	6.9	3.6	4.7	1.4	64.2	2.4	
AREA=	114.1	143.1	68.2	53.0	114.5	71.1	108.2	34.3	699.8	58.0	
VEL=	4.3	5.6	8.3	8.8	8.4	7.1	6.0	5.8	12.8	5.7	

*SECNO 4.149

4.15	9.50	1715.80	1715.38	.00	1718.09	2.29	8.82	.34	1709.10
13900.	5650.	7903.	348.	805.	528.	95.	905.	111.	1711.40
.67	7.02	14.95	3.67	.080	.045	.085	.000	1706.30	9805.45
.013164	552.	529.	560.	0	8	0	.00	259.36	10064.81

S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.15 CWSEL= 1715.80

STA=	9805.	9844.	9857.	9879.	9891.	9912.	9950.	10017.	10065.
PER Q=	5.7	5.7	8.0	3.8	5.6	11.9	56.9	2.5	
AREA=	139.0	96.2	146.5	74.9	116.4	232.2	528.5	94.8	
VEL=	5.7	8.2	7.6	7.0	6.7	7.1	15.0	3.7	

*SECNO 4.254

4.25	7.84	1723.34	1723.30	.00	1725.45	2.11	7.30	.07	1716.90
13900.	156.	11141.	2603.	28.	868.	592.	922.	115.	1718.90
.68	5.60	12.83	4.40	.075	.045	.085	.000	1715.50	9937.99
.014070	544.	550.	432.	2	15	0	.00	364.05	10302.04

FLOW DISTRIBUTION FOR SECNO= 4.25 CWSEL= 1723.34

STA=	9938.	9945.	10091.	10127.	10210.	10247.	10282.	10302.
PER Q=	1.1	80.2	4.6	4.1	5.5	3.8	.8	
AREA=	27.8	868.3	129.5	169.9	145.4	113.4	33.7	
VEL=	5.6	12.8	4.9	3.4	5.2	4.6	3.3	

*SECNO 4.344

[illegible]34	8.61	1730.01	1730.00	.00	1732.60	2.59	6.76	.38	1724.10
[illegible].	2903.	9007.	1990.	348.	594.	416.	938.	118.	1725.10
[illegible].69	8.34	15.16	4.78	.075	.040	.085	.000	1721.40	9924.99
.014092	476.	479.	488.	2	8	0	.00	273.44	10198.43

FLOW DISTRIBUTION FOR SECNO= 4.34 CWSEL= 1730.01

STA=	9925.	9947.	9963.	9978.	10071.	10093.	10133.	10182.	10198.
PER Q=	8.7	7.0	5.2	64.8	4.4	4.5	4.8	.6	
AREA=	143.8	111.5	92.8	594.0	104.3	132.7	150.9	28.1	
VEL=	8.4	8.7	7.9	15.2	5.9	4.7	4.4	3.1	

*SECNO 4.437

4.44	8.44	1737.84	1737.70	.00	1740.82	2.97	7.91	.31	1732.30
13900.	3050.	8646.	2204.	333.	534.	281.	952.	121.	1731.30
.70	9.16	16.20	7.84	.075	.045	.085	.000	1729.40	9897.80
.018666	504.	488.	480.	2	8	0	.00	184.99	10082.79

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TWA      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      4.44          CWSEL=   1737.84

STA=    9898.    9913.    9924.    9940.    9954.   10032.   10045.   10056.   10063.   10073.   10083.
  PER Q=     2.1      6.0      8.4      5.4     62.2      5.5      4.4      2.5      2.7       .7
   AREA=    51.0     81.8    116.4     83.6    533.6     90.4     71.3     42.8     52.9     23.9
    VEL=     5.8     10.1     10.0      9.1     16.2      8.5      8.6      8.1      7.2      3.9

*SECNO 4.540
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     4.54    10.21  1748.11  1748.11      .00  1751.06     2.95     8.01      .01  1738.60
   13900.     712.   10211.    2977.     105.     653.     491.     967.     124.   1739.50
      .71     6.75    15.65     6.07     .070     .045     .075     .000  1737.90  9950.00
  .011653     472.     544.     632.        0       11        0      .00   238.81 10188.81


FLOW DISTRIBUTION FOR SECNO=      4.54          CWSEL=   1748.11

STA=    9950.    9973.   10044.   10054.   10065.   10075.   10095.   10136.   10189.
  PER Q=     5.1     73.5      4.9      3.6      3.4      4.8      3.8       .9
   AREA=   105.5    652.7     82.0     66.4     64.7    104.7    121.4     51.4
    VEL=     6.8     15.6      8.2      7.5      7.4      6.4      4.4      2.4

*S[illegible].634

3301 HV CHANGED MORE THAN HVINS

     4.63     7.91  1754.61  1754.31      .00  1756.76     2.16     5.38      .32  1752.20
   13900.      20.   13648.     232.       9.    1148.      79.     981.     127.   1751.40
      .73     2.34    11.89     2.92     .070     .040     .065     .000  1746.70  9841.18
  .010178     496.     497.     480.        2       15        0      .00   288.97 10130.15


FLOW DISTRIBUTION FOR SECNO=      4.63          CWSEL=   1754.61

STA=    9841.    9848.   10050.   10062.   10081.   10092.   10105.   10117.   10128.   10130.
  PER Q=      .1    98.2       .9       .5       .1       .1       .1       .0       .0
   AREA=     8.7   1147.8     30.0     25.0      7.4      6.5      5.6      4.4       .7
    VEL=     2.3     11.9      4.2      2.8      1.7      1.5      1.4      1.3      1.0

*SECNO 4.727
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[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
TIME          VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE         XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     4.73    10.02  1763.62  1763.62      .00  1766.96     3.34     5.09      .95  1757.50
   13900.     153.   11527.    2220.      37.     725.     378.     995.     129.   1757.80
      .74     4.12    15.90     5.87     .080     .040     .075     .000  1753.60  9930.21
  .010473     505.     496.     465.        0       11        0      .00   180.53 10110.74


FLOW DISTRIBUTION FOR SECNO=      4.73          CWSEL=   1763.62

STA=    9930.    9934.    9943.   10026.   10043.   10058.   10073.   10086.   10097.   10110.   10111.
  PER Q=      .0      1.1     82.9      4.6      3.7      3.4      2.6      1.3       .4       .0
   AREA=     3.4     33.7    724.9     97.2     82.6     75.9     63.7     37.3     21.7       .2
    VEL=     1.6      4.4     15.9      6.6      6.3      6.1      5.7      4.7      2.8       .6

*SECNO 4.825
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     4.82    10.50  1772.30  1772.30      .00  1775.44     3.14     4.89      .08  1766.10
[illegible]0.    2070.   11621.     209.     482.     753.      49.    1009.     132.   1763.10
[illegible]5     4.29    15.44     4.24     .080     .040     .075     .000  1761.80  9806.68
  .008658     535.     515.     490.        0        8        0      .00   230.54 10037.22


FLOW DISTRIBUTION FOR SECNO=      4.82          CWSEL=   1772.30

STA=    9807.    9828.    9856.    9879.    9894.    9924.    9947.   10027.   10037.
  PER Q=      .4      1.5      1.9      1.9      4.4      4.8     83.6      1.5
   AREA=    24.6     67.5     71.9     61.3    131.2    125.4    752.7     49.3
    VEL=     2.1      3.1      3.7      4.3      4.6      5.3     15.4      4.2

*SECNO 4.918
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        BOUNDARY SEC 22/23, T6N; R1W APPX RM. 4.865
     4.92    11.81  1780.01  1780.01      .00  1783.34     3.33     4.11      .15  1768.70
   13900.     167.   11169.    2564.      46.     691.     532.    1024.     134.   1772.00
      .76     3.67    16.16     4.82     .080     .040     .075     .000  1768.20  9955.83
  .007974     465.     492.     540.        0        8        0      .00   204.39 10160.22
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.92 CWSEL= 1780.01

STA=	9956.	9964.	10028.	10041.	10053.	10068.	10076.	10082.	10099.	10110.	10132.	10147.	10160.
PER Q=	1.2	80.3	4.3	2.4	2.1	1.2	1.0	2.9	1.3	2.2	.9	.2	
AREA=	45.6	691.1	91.8	62.6	63.3	35.4	29.0	80.5	40.8	76.7	39.1	12.9	
VEL=	3.7	16.2	6.5	5.3	4.7	4.6	4.9	5.0	4.3	4.0	3.3	1.8	

*SECNO 5.044
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5.04	10.53	1788.33	1788.33	.00	1791.24	2.91	5.54	.17	1780.60
13900.	3505.	10021.	375.	720.	632.	84.	1044.	138.	1777.80
.77	4.87	15.85	4.44	.080	.040	.085	.000	1777.80	9770.73
.008969	685.	664.	560.	0	15	0	.00	260.89	10031.61

FLOW DISTRIBUTION FOR SECNO= 5.04 CWSEL= 1788.33

STA=	9771.	9790.	9812.	9842.	9856.	9875.	9899.	9916.	9933.	9950.	10016.	10032.
PER Q=	.2	.9	3.0	2.2	2.9	4.4	3.8	3.2	4.6	72.1	2.7	
AREA=	16.2	45.3	104.6	62.7	83.7	119.6	95.8	85.6	106.5	632.1	84.3	
VEL=	1.7	2.9	4.0	4.8	4.8	5.2	5.5	5.2	6.0	15.9	4.4	

*SECNO 5.156
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

5.16	8.75	1797.65	1797.65	.00	1800.54	2.89	7.10	.01	1789.60
13900.	220.	10339.	3342.	43.	676.	480.	1062.	141.	1790.00
.78	5.15	15.30	6.97	.080	.050	.075	.000	1788.90	9973.49
.016232	540.	595.	700.	0	15	0	.00	210.29	10183.78

FLOW DISTRIBUTION FOR SECNO= 5.16 CWSEL= 1797.65

STA=	9973.	9984.	10067.	10087.	10106.	10119.	10133.	10158.	10181.	10184.
PER Q=	1.6	74.4	6.6	4.2	3.8	4.1	4.3	1.1	.0	
AREA=	42.7	675.6	112.9	85.9	68.5	75.7	95.5	40.4	.6	
VEL=	5.1	15.3	8.1	6.8	7.7	7.5	6.2	3.7	.8	

*SECNO 5.250

3301 HV CHANGED MORE THAN HVINS

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 S        DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


   5.25    10.08  1805.98  1805.08      .00  1807.88     1.90     6.94      .40  1800.10
  13900.   6446.    6242.    1212.     706.     465.     213.    1077.     143.   1800.60
    .80     9.13    13.42     5.70     .060     .050     .075     .000  1795.90  9854.98
 .011940    650.     489.     330.        2        8        0      .00   227.91 10082.89


FLOW DISTRIBUTION FOR SECNO=      5.25          CWSEL=   1805.98

STA=    9855.    9877.    9888.    9902.    9912.    9929.    9942.    9966.    9973.   10027.   10052.   10073.   10083.
  PER Q=      7.8      6.5      7.7      5.5      5.9      3.0      7.6      2.4     44.9      5.2      3.4       .1
   AREA=    123.1     85.5    102.4     74.8     95.8     58.5    128.6     37.7    465.3    118.3     85.4      9.0
    VEL=      8.8     10.5     10.4     10.2      8.6      7.2      8.3      8.9     13.4      6.1      5.6      2.0

*SECNO 5.334

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    5.33    11.56  1814.16  1814.16      .00  1818.17     4.01     5.11     1.69  1803.90
  13900.   4633.    8868.     399.     474.     472.      69.    1089.     145.   1805.50
     .80     9.78    18.80     5.76     .060     .040     .075     .000  1802.60  9902.74
[illegible]6     460.     451.     445.        0        8        0      .00   125.67 10028.42


FLOW DISTRIBUTION FOR SECNO=      5.33          CWSEL=   1814.16

STA=    9903.    9908.    9916.    9932.    9946.    9960.    9970.   10013.   10022.   10028.
  PER Q=       .2      1.8      7.4      8.0      8.3      7.7     63.8      2.6       .3
   AREA=      7.3     38.2    108.8    111.0    112.8     95.9    471.7     57.0     12.4
    VEL=      2.9      6.7      9.4     10.0     10.3     11.2     18.8      6.4      2.9

*SECNO 5.434
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    5.43    10.20  1822.20  1822.20      .00  1826.01     3.81     5.79      .08  1814.60
  13900.    370.   10812.    2718.      71.     624.     367.    1102.     147.   1814.90
     .81     5.24    17.33     7.41     .070     .040     .075     .000  1812.00  9946.73
 .011410    450.     525.     656.        0       11        0      .00   145.67 10092.40


FLOW DISTRIBUTION FOR SECNO=      5.43          CWSEL=   1822.20

STA=    9947.    9965.   10033.   10050.   10060.   10070.   10078.   10086.   10092.
  PER Q=      2.7     77.8      6.7      3.8      3.8      3.2      1.9       .2
   AREA=     70.6    624.0    120.4     68.8     66.5     56.5     45.4      9.0
    VEL=      5.2     17.3      7.7      7.7      7.9      7.9      5.9      2.6
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S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
[illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 5.529

3301 HV CHANGED MORE THAN HVINS

       M-9 TRIBUTARY APPX RM. 5.433
    5.53     9.79  1829.69  1829.17      .00  1832.73     3.05     6.42      .30  1821.70
   13900.    6744.    6363.     792.     679.     357.     109.    1114.     148.   1819.90
     .82     9.94    17.81     7.30     .070     .045     .075     .000  1819.90  9896.34
  .014852    485.     501.     490.        3       11        0      .00   152.63 10048.97


FLOW DISTRIBUTION FOR SECNO=      5.53          CWSEL=   1829.69

STA=    9896.    9908.    9919.    9928.    9943.    9950.    9953.    9965.    9978.    9988.   10026.   10042.   10049.
  PER Q=     2.1      7.2      5.5      7.7      3.9      2.1      7.4      6.9      5.8     45.8      5.5       .2
   AREA=    49.4     92.4     73.3    109.3     53.4     27.3     98.8     96.2     78.4    357.3     98.7      9.8
    VEL=     5.8     10.9     10.4      9.8     10.1     10.5     10.4     10.0     10.2     17.8      7.7      2.9

*SECNO 5.625

3301 HV CHANGED MORE THAN HVINS

    [illegible]63     9.40  1837.30  1836.29      .00  1839.07     1.77     5.83      .51  1829.70
    [illegible].    429.    10026.    3445.     87.     830.     606.    1130.     151.   1831.40
     .84     4.91    12.07     5.69     .070     .045     .075     .000  1827.90  9928.14
  .009348    500.     506.     485.        2       15        0      .00   255.54 10183.68


FLOW DISTRIBUTION FOR SECNO=      5.63          CWSEL=   1837.30

STA=    9928.    9951.   10063.   10088.   10115.   10135.   10149.   10171.   10183.   10184.
  PER Q=     3.1     72.1      5.9      6.1      4.0      2.6      5.0      1.1       .0
   AREA=    87.4    830.5    136.1    146.0     99.0     66.7    118.3     39.5       .4
    VEL=     4.9     12.1      6.0      5.8      5.6      5.5      5.9      4.0       .8

*SECNO 5.726
    5.73     8.41  1843.41  1843.03      .00  1845.37     1.95     6.15      .15  1838.00
   13900.    5660.    6552.    1689.     739.     454.     299.    1148.     154.   1839.00
     .85     7.66    14.42     5.64     .075     .045     .070     .000  1835.00  9830.20
  .014603    570.     534.     485.        2       15        0      .00   295.44 10125.63
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   SE[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q[illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      5.73          CWSEL=   1843.41

STA=    9830.    9848.    9862.    9873.    9887.    9903.    9941.    9961.   10025.   10063.   10098.   10126.
  PER Q=      5.1      6.5      3.9      3.6      4.2     11.3      6.2     47.1      6.5      4.5      1.1
   AREA=     94.0    100.3     68.6     70.8     81.7    209.2    114.2    454.5    145.1    111.4     42.7
    VEL=      7.6      9.0      7.8      7.0      7.2      7.5      7.5     14.4      6.3      5.6      3.7

*SECNO 5.808

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     5.81    10.66  1852.26  1852.26      .00  1855.95     3.69     5.95     1.39  1843.40
   13900.    5306.    8297.     297.     654.     441.      51.    1161.      156.  1842.00
      .86     8.12    18.82     5.80     .075     .040     .070     .000  1841.60  9871.55
  .012340     465.     433.     415.        0       11        0      .00   155.59 10027.13


FLOW DISTRIBUTION FOR SECNO=      5.81          CWSEL=   1852.26

STA=    9872.    9887.    9905.    9923.    9946.    9957.    9970.   10015.   10021.   10027.
  PE[illegible]=      1.5      5.7      6.3      9.3      6.3      9.0     59.7      1.9       .2
[illegible]          46.9    108.8    115.0    161.5     94.5    126.9    440.9     41.6      9.6
   [illegible]=      4.5      7.3      7.6      8.0      9.2      9.9     18.8      6.4      3.0

*SECNO 5.905
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
        M-8 TRIBUTARY APPX RM. 5.853
     5.91     9.43  1858.73  1858.73      .00  1862.37     3.64     6.05      .02  1856.30
   12300.       9.   11894.     398.       4.     765.      74.    1173.      158.  1853.90
      .87     2.14    15.54     5.40     .075     .040     .075     .000  1849.30  9962.26
  .011997     430.     512.     540.        0       11        0      .00   123.01 10085.27


FLOW DISTRIBUTION FOR SECNO=      5.91          CWSEL=   1858.73

STA=    9962.    9966.   10066.   10074.   10085.
  PER Q=       .1     96.7      2.2      1.0
   AREA=      4.0    765.2     41.9     31.7
    VEL=      2.1     15.5      6.5      4.0
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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
[illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 6.010

3301 HV CHANGED MORE THAN HVINS

     6.01     8.72  1866.92  1864.95      .00  1867.63      .72     4.09     1.17  1862.00
   12300.    5243.    5081.    1976.    1225.     549.     468.    1192.     161.   1861.50
      .89     4.28     9.26     4.22     .075     .040     .080     .000  1858.20  9725.58
  .005094     495.     557.     600.        3       19        0      .00   413.74 10139.32


FLOW DISTRIBUTION FOR SECNO=      6.01          CWSEL=   1866.92

STA=    9726.    9746.    9754.    9767.    9791.    9831.    9863.    9891.    9920.    9955.    9968.   10052.   10072.
  PER Q=      4.0      3.4      4.5      5.3      6.4      4.3      4.3      4.2      4.2      2.0     41.3      3.5
   AREA=    107.6     71.0    100.1    141.3    195.9    138.8    132.0    134.1    142.8     61.8    548.8    106.7
    VEL=      4.6      6.0      5.5      4.6      4.0      3.8      4.0      3.9      3.6      3.9      9.3      4.1
STA=   10072.   10087.   10122.   10139.
  PER Q=      3.5      7.9      1.2
   AREA=     95.1    216.1     50.7
    VEL=      4.5      4.5      2.8

*SECNO 6.094

33[illegible] CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     6.09     8.10  1873.70  1873.70      .00  1876.90     3.20     3.67     1.99  1867.30
   12300.    1590.    8516.    2194.     201.     522.     251.    1208.     164.   1866.30
      .90     7.92    16.31     8.75     .075     .045     .070     .000  1865.60  9922.88
  .016323     400.     444.     477.        0       11        0      .00   165.50 10088.38


FLOW DISTRIBUTION FOR SECNO=      6.09          CWSEL=   1873.70

STA=    9923.    9940.    9942.    9942.    9973.   10041.   10064.   10088.
  PER Q=       .1       .2       .1     12.5     69.2     13.4      4.4
   AREA=      8.4      7.9      1.7    182.8    522.2    162.5     88.4
    VEL=      1.6      3.4      7.8      8.4     16.3     10.2      6.2

*SECNO 6.143
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE  XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    6.14     8.29  1878.89  1878.89      .00  1882.50     3.61     3.93      .33  1870.70
   12300.    236.   10477.    1587.      45.     647.     195.    1213.     165.   1870.70
     .91     5.27    16.19     8.15     .075     .045     .070     .000  1870.60  9976.37
  .014518    228.     255.     270.        0        5        0      .00   126.89 10103.25


FLOW DISTRIBUTION FOR SECNO=      6.14          CWSEL=   1878.89

STA=    9976.    9987.   10066.   10081.   10093.   10103.
  PER Q=      1.9     85.2      7.9      3.9      1.1
   AREA=     44.8    647.3    105.5     60.9     28.4
    VEL=      5.3     16.2      9.2      8.0      4.6

*SECNO 6.231

3301 HV CHANGED MORE THAN HVINS

       M-7 TRIBUTARY APPX RM. 6.166
    6.23    10.01  1886.41  1883.03      .00  1886.92      .51     3.19     1.24  1879.40
   12000.    2315.    3948.    5737.     486.     526.    1250.    1229.     167.   1880.00
     .93     4.76     7.50     4.59     .075     .050     .075     .000  1876.40  9892.21
  .004170    500.     467.     390.        2       15        0      .00   333.62 10225.83


FLOW DISTRIBUTION FOR SECNO=      6.23          CWSEL=   1886.41

STA=    9892.    9917.    9938.    9963.   10031.   10066.   10099.   10128.   10147.   10159.   10173.   10180.   10190.
  PER Q=      4.4      7.5      7.3     32.9      7.0      6.1      5.4      3.5      3.6      6.5      3.1      4.7
   AREA=    129.4    174.4    182.3    526.2    202.7    182.6    162.2    104.9     90.1    136.5     66.1     96.5
    VEL=      4.1      5.2      4.8      7.5      4.1      4.0      4.0      4.0      4.8      5.7      5.7      5.8
STA=   10190.   10201.   10214.   10226.
  PER Q=      4.4      3.1       .5
   AREA=     95.4     85.1     27.9
    VEL=      5.5      4.4      2.1

*SECNO 6.323

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    6.32     7.76  1892.36  1892.36      .00  1895.01     2.66     4.20     1.71  1886.80
   12000.      75.    3804.    8121.      15.     215.     789.    1247.     170.   1887.10
     .94     5.17    17.68    10.29     .075     .050     .075     .000  1884.60  9982.36
  .028776    505.     485.     472.        0       15        0      .00   189.11 10171.47
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   T        DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      6.32          CWSEL=   1892.36

STA=    9982.    9988.   10020.   10041.   10057.   10075.   10097.   10109.   10125.   10133.   10136.   10162.   10171.
  PER Q=      .6     31.7      9.5      7.6      7.7      9.1      6.8     10.1      4.4      1.8      9.8       .9
   AREA=    14.6    215.1    111.9     87.3     93.0    109.8     73.3    103.4     48.0     20.2    121.9     20.2
    VEL=     5.2     17.7     10.2     10.4      9.9     10.0     11.2     11.7     11.1     10.6      9.6      5.1

*SECNO 6.391

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     6.39    11.23  1900.43  1900.43      .00  1904.72     4.29     7.97     1.31  1890.90
   12000.    1886.    9655.     458.     192.     538.      66.    1254.     171.   1890.30
      .95     9.80    17.95     6.89     .075     .055     .075     .000  1889.20  9961.59
  .018972     385.     361.     310.        0       11        0      .00    96.24 10057.83


FLOW DISTRIBUTION FOR SECNO=      6.39          CWSEL=   1900.43

STA=    9962.    9966.    9982.    9994.   10045.   10058.
  [illegible]       .1      5.2     10.5     80.5      3.8
  [illegible]      3.0     82.6    106.9    538.0     66.5
    VEL=       2.2      7.5     11.8     17.9      6.9

*SECNO 6.450

3301 HV CHANGED MORE THAN HVINS

     6.45    13.38  1907.38  1902.54      .00  1907.73      .35     1.44     1.58  1895.60
   12000.     166.    4191.    7643.      73.     654.    2170.    1269.     173.   1896.30
      .97     2.27     6.41     3.52     .075     .055     .075     .000  1894.00  9961.21
  .001891     285.     309.     375.        3       19        0      .00   344.08 10305.29


FLOW DISTRIBUTION FOR SECNO=      6.45          CWSEL=   1907.38

STA=    9961.    9974.   10025.   10047.   10070.   10087.   10097.   10123.   10144.   10171.   10216.   10244.   10279.
  PER Q=      1.4     34.9      9.6      8.9      5.2      3.6      7.1      3.7      5.1      9.0      5.0      5.1
   AREA=     73.0    654.3    259.3    253.7    159.0    108.8    230.1    141.1    192.7    330.8    194.1    213.0
    VEL=      2.3      6.4      4.4      4.2      3.9      4.0      3.7      3.1      3.1      3.3      3.1      2.9
STA=   10279.   10305.
  PER Q=      1.4
   AREA=     87.2
    VEL=      2.0
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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 6.514

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    6.51     9.34  1909.84  1909.84      .00  1912.65     2.81     1.54     1.97  1904.50
  12000.      36.    4860.    7104.      10.     262.     853.    1285.     175.   1904.30
     .97     3.64    18.58     8.33     .075     .040     .080     .000  1900.50  9976.29
 .019228     330.     340.     360.        0       19        0      .00   204.52 10180.82


FLOW DISTRIBUTION FOR SECNO=      6.51          CWSEL=   1909.84

STA=    9976.    9980.   10016.   10025.   10041.   10056.   10075.   10105.   10136.   10150.   10160.   10181.
  PER Q=      .3     40.5      4.3     10.9     11.7     10.9      8.0      6.0      3.3      2.4      1.7
   AREA=     9.9    261.6     58.8    126.2    129.6    140.1    134.9    115.1     59.7     41.3     47.3
    VEL=     3.6     18.6      8.9     10.4     10.8      9.4      7.1      6.2      6.6      7.0      4.3

*SECNO 6.616

3301 HV CHANGED MORE THAN HVINS

    62     9.78  1917.18  1916.46      .00  1918.96     1.77     5.89      .41  1909.90
  12000.   5316.    6442.     242.    1029.     467.      64.    1302.     178.   1908.70
     .99     5.16    13.79     3.77     .075     .040     .080     .000  1907.40  9784.58
 .007215     650.     534.     440.        3        8        0      .00   272.25 10056.82


FLOW DISTRIBUTION FOR SECNO=      6.62          CWSEL=   1917.18

STA=    9785.    9835.    9852.    9868.    9887.    9906.    9923.    9938.    9956.    9972.    9991.   10042.   10057.
  PER Q=     5.5      3.1      3.4      3.4      3.2      3.7      3.4      5.2      6.0      7.3     53.7      2.0
   AREA=   164.1     78.3     83.4     87.6     84.3     86.9     80.0    111.4    114.2    139.1    467.2     64.2
    VEL=     4.0      4.8      4.9      4.7      4.6      5.1      5.1      5.6      6.3      6.3     13.8      3.8

*SECNO 6.707
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
       BOUNDARY SEC 9/10 T6N; R1W APPX RM. 6.688
    6.71     7.63  1922.53  1922.53      .00  1924.40     1.87     4.89      .08  1916.20
  12000.   4300.    4955.    2745.     772.     321.     394.    1318.     182.   1916.80
    1.00     5.57    15.43     6.98     .080     .045     .080     .000  1914.90  9748.76
 .016551     435.     484.     505.        0       19        0      .00   373.38 10122.14
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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
             QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE      XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      6.71          CWSEL=   1922.53

STA=    9749.    9797.    9815.    9827.    9865.    9887.    9915.    9941.    9987.    9995.   10041.   10051.   10062.
  PER Q=      4.5      7.8      3.1      5.0      3.4      3.6      3.0      3.8      1.7     41.3      4.3      4.7
   AREA=    104.6    113.5     57.6    118.3     74.0     86.8     75.3    106.7     34.6    321.2     62.2     72.3
    VEL=      5.1      8.2      6.4      5.1      5.5      5.0      4.8      4.2      5.8     15.4      8.2      7.9
STA=   10062.   10079.   10096.   10109.   10122.
  PER Q=      3.6      3.9      4.1      2.3
   AREA=     69.3     73.3     69.7     46.7
    VEL=      6.2      6.3      7.1      5.8

*SECNO 6.798
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     6.80     8.36  1930.66  1930.66      .00  1932.70     2.05     7.25      .14  1925.80
   12000.    3276.    7989.     735.     611.     590.     133.    1333.     185.  1925.90
     1.01     5.36    13.54     5.52     .075     .045     .080     .000  1922.30  9788.96
  .014357     424.     482.     532.        0        8        0      .00   314.87 10103.84


FLOW DISTRIBUTION FOR SECNO=      6.80          CWSEL=   1930.66

ST[illegible] 9789.    9850.    9887.    9928.    9975.   10068.   10084.   10104.
[illegible]=      6.7      4.9      5.7     10.0     66.6      3.7      2.4
   AREA=    168.7    114.3    133.1    194.8    590.0     73.5     59.6
    VEL=      4.8      5.1      5.2      6.1     13.5      6.0      4.9

*SECNO 6.901
     6.90     7.42  1939.12  1939.11      .00  1941.16     2.04     8.45      .00  1934.60
   12000.    4198.    7739.      64.     677.     573.      15.    1349.     189.  1934.20
     1.03     6.20    13.51     4.26     .075     .045     .080     .000  1931.70  9750.28
  .017509     520.     541.     544.        2       15        0      .00   303.77 10054.05


FLOW DISTRIBUTION FOR SECNO=      6.90          CWSEL=   1939.12

STA=    9750.    9785.    9817.    9856.    9883.    9906.    9922.    9944.   10048.   10054.
  PER Q=      3.8      6.3      5.7      6.1      4.6      3.0      5.4     64.5       .5
   AREA=     86.3    120.1    120.6    109.9     88.6     57.7     93.5    572.8     15.0
    VEL=      5.3      6.3      5.7      6.7      6.3      6.3      6.9     13.5      4.3

*SECNO 6.987
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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    6.99     8.99  1949.79  1949.79      .00  1953.07     3.29     8.98     1.00  1940.90
   12000.    283.    8285.    3432.      38.     499.     411.    1360.     191.   1943.60
    1.04     7.38    16.61     8.35     .075     .055     .085     .000  1940.80  9964.67
  .022629    420.     456.     480.        0       11        0      .00   143.31 10107.98


FLOW DISTRIBUTION FOR SECNO=      6.99          CWSEL=   1949.79

STA=    9965.    9967.    9970.    9973.   10034.   10059.   10085.   10099.   10108.
  PER Q=      .0       .6      1.8     69.0     10.9     11.0      5.7       .9
   AREA=     1.7     12.4     24.3    498.7    152.0    153.7     81.0     24.2
    VEL=     2.3      5.5      8.7     16.6      8.6      8.6      8.5      4.6

*SECNO 7.111

3301 HV CHANGED MORE THAN HVINS

    7.11     8.43  1958.73  1956.90      .00  1959.39      .66     5.27     1.05  1955.50
      .     3055.    6277.    2667.     689.     767.     784.    1381.     195.   1954.70
     1.06     4.43     8.19     3.40     .075     .045     .080     .000  1950.30  9829.99
  .005137     564.     565.     541.        3       19        0      .00   466.84 10296.83


FLOW DISTRIBUTION FOR SECNO=      7.11          CWSEL=   1958.73

STA=    9830.    9866.    9888.    9902.    9913.    9924.    9946.    9965.   10083.   10123.   10166.   10190.   10218.
  PER Q=      3.9      4.9      4.2      3.5      3.3      3.9      1.9     52.3      4.0      4.7      4.3      5.1
   AREA=    129.9    128.0     97.6     78.1     76.6    112.5     66.8    766.7    148.3    169.2    128.0    150.6
    VEL=      3.6      4.6      5.1      5.4      5.1      4.2      3.3      8.2      3.2      3.4      4.0      4.0
STA=   10218.   10257.   10297.
  PER Q=      3.2       .9
   AREA=    128.0     60.0
    VEL=      3.0      1.9

*SECNO 7.199

3265 DIVIDED FLOW
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

7.20	8.12	1966.12	1966.12	.00	1968.74	2.62	4.17	1.57	1959.60
12000.	4166.	6339.	1495.	397.	409.	274.	1399.	199.	1962.20
1.07	10.48	15.50	5.46	.070	.045	.080	.000	1958.00	9928.55
.018232	436.	465.	576.	0	8	0	.00	215.12	10176.38

FLOW DISTRIBUTION FOR SECNO= 7.20 CWSEL= 1966.12

STA=	9929.	9953.	9965.	9974.	9986.	10049.	10119.	10156.	10176.
PER Q=	13.5	7.9	5.9	7.4	52.8	4.3	7.4	.8	
AREA=	159.5	87.7	66.4	83.9	409.0	104.0	143.3	26.6	
VEL=	10.2	10.8	10.6	10.6	15.5	4.9	6.2	3.4	

*SECNO 7.297

3301 HV CHANGED MORE THAN HVINS

[illegible]0	8.59	1974.39	1973.15	.00	1975.66	1.27	6.38	.54	1969.00
[illegible]0.	2666.	7045.	2289.	432.	654.	451.	1415.	202.	1969.00
1.09	6.18	10.78	5.07	.070	.045	.075	.000	1965.80	9887.53
.008631	532.	523.	528.	3	15	0	.00	291.57	10179.10

FLOW DISTRIBUTION FOR SECNO= 7.30 CWSEL= 1974.39

STA=	9888.	9930.	9942.	9963.	9977.	10075.	10092.	10109.	10137.	10158.	10179.
PER Q=	8.3	4.0	6.0	3.8	58.7	4.1	3.4	6.0	3.9	1.6	
AREA=	166.3	73.7	116.2	75.5	653.5	89.3	79.7	135.8	93.5	52.9	
VEL=	6.0	6.5	6.2	6.1	10.8	5.5	5.2	5.3	5.0	3.6	

*SECNO 7.396

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

7.40	6.69	1981.59	1981.59	.00	1983.69	2.11	6.78	.67	1978.80
12000.	2272.	6902.	2825.	282.	494.	411.	1432.	206.	1978.50
1.10	8.07	13.98	6.87	.075	.045	.075	.000	1974.90	9885.16
.021479	524.	523.	528.	0	15	0	.00	286.60	10171.76

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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
Q         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      7.40          CWSEL=   1981.59

STA=    9885.    9912.    9933.    9948.   10048.   10068.   10080.   10096.   10121.   10159.   10172.
  PER Q=     8.1      7.6      3.2     57.5      3.6      3.4      5.0      5.9      5.4       .3
   AREA=   120.5    105.8     55.3    493.8     66.4     53.5     73.6     98.0    108.2     11.5
    VEL=     8.1      8.6      7.0     14.0      6.5      7.7      8.1      7.2      6.0      2.7

*SECNO 7.494

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    7.49     8.83  1991.43  1991.43      .00  1994.33     2.91     9.42      .64  1985.80
   12000.    2562.    8493.     945.     253.     560.     161.    1444.     208.   1986.40
    1.11    10.11    15.16     5.86     .060     .045     .075     .000  1982.60  9942.22
  .015623     524.     516.     516.        0       11        0      .00   174.81 10117.04


FLOW DISTRIBUTION FOR SECNO=      7.49          CWSEL=   1991.43

STA=    9942.    9952.    9958.    9969.    9987.   10066.   10089.   10111.   10117.
          1.4      4.2      7.1      8.6     70.8      5.7      2.1       .0
   AREA=   29.0     45.6     75.7    103.1    560.2    102.5     55.7      3.1
    VEL=    5.8     11.1     11.3     10.0     15.2      6.7      4.5      1.6

*SECNO 7.577

3301 HV CHANGED MORE THAN HVINS

    7.58     9.26  1999.26  1998.22      .00  2000.92     1.66     6.09      .50  1992.30
   12000.    3218.    6257.    2524.     445.     490.     407.    1455.     210.   1995.00
    1.13     7.24    12.76     6.20     .085     .050     .075     .000  1990.00  9915.39
  .012993     480.     438.     300.        2       11        0      .00   231.13 10146.52


FLOW DISTRIBUTION FOR SECNO=      7.58          CWSEL=   1999.26

STA=    9915.    9944.    9952.    9964.    9974.    9982.   10048.   10078.   10103.   10115.   10147.
  PER Q=     7.0      3.8      7.6      5.3      3.1     52.1      7.9      7.6      3.2      2.4
   AREA=   143.8     60.9    106.9     82.0     51.1    490.4    146.6    130.3     60.2     69.8
    VEL=     5.8      7.5      8.6      7.8      7.3     12.8      6.5      7.0      6.3      4.1
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 S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 7.670

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
       M-6 TRIBUTARY APPX RM. 7.593
    7.67     7.79  2006.69  2006.69      .00  2009.82     3.13     7.68     1.17  2003.60
   12000.     65.    9142.    2794.      20.     594.     295.    1468.     212.   2001.70
    1.14     3.20    15.40     9.46     .085     .045     .075     .000  1998.90  9924.72
  .019515    524.     490.     456.        0       15        0      .00   156.31 10081.03


FLOW DISTRIBUTION FOR SECNO=      7.67          CWSEL=   2006.69

STA=    9925.    9938.   10034.   10040.   10056.   10074.   10081.
  PER Q=       .5     76.2      2.4      8.2     11.4      1.2
   AREA=     20.2    593.6     33.9    102.6    131.3     27.4
    VEL=      3.2     15.4      8.5      9.6     10.5      5.3

*SECNO 7.752

330[illegible]CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    7.75     9.11  2015.81  2015.81      .00  2019.80     3.99     8.68      .69  2006.70
   12000.   1339.   10475.     185.     152.     622.      33.    1477.     214.   2006.80
    1.14     8.82    16.85     5.69     .080     .055     .075     .000  2006.70  9962.63
  .020679    412.     431.     448.        0        8        0      .00   104.00 10066.64


FLOW DISTRIBUTION FOR SECNO=      7.75          CWSEL=   2015.81

STA=    9963.    9967.    9977.    9986.    9991.   10059.   10067.
  PER Q=       .1      2.8      4.9      3.4     87.3      1.5
   AREA=      4.6     47.9     59.3     40.0    621.5     32.6
    VEL=      2.6      6.9      9.8     10.3     16.9      5.7

*SECNO 7.798

3301 HV CHANGED MORE THAN HVINS
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST
7.80	10.41	2022.61	2018.74	.00	2023.36	.74	2.25	1.30	2013.90
12000.	4703.	6264.	1033.	894.	765.	213.	1485.	215.	2013.00
1.15	5.26	8.19	4.86	.080	.055	.070	.000	2012.20	9852.06
.004543	320.	248.	272.	3	19	0	.00	227.99	10080.05

FLOW DISTRIBUTION FOR SECNO= 7.80 CWSEL= 2022.61

STA=	9852.	9880.	9904.	9918.	9939.	9960.	10041.	10053.	10078.	10080.
PER Q=	6.6	11.3	5.3	7.4	8.7	52.2	5.3	3.3	.0	
AREA=	171.5	235.5	119.0	174.3	193.6	765.3	107.7	103.0	1.9	
VEL=	4.6	5.7	5.3	5.1	5.4	8.2	5.9	3.9	1.1	

*SECNO 7.892

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

7.89	7.69	2028.69	2028.69	.00	2031.17	2.48	4.38	1.39	2022.50
12000.	498.	6156.	5346.	73.	405.	571.	1502.	217.	2023.80
1.17	6.81	15.21	9.37	.080	.055	.070	.000	2021.00	9925.57
.007739	440.	498.	544.	0	19	0	.00	209.15	10134.72

FLOW DISTRIBUTION FOR SECNO= 7.89 CWSEL= 2028.69

STA=	9926.	9929.	9938.	9950.	10007.	10028.	10050.	10071.	10092.	10103.	10120.	10132.	10135.
PER Q=	.0	.6	3.5	51.3	7.4	9.0	10.3	9.7	4.2	3.3	.6	.0	
AREA=	1.2	17.2	54.6	404.8	96.2	112.0	120.2	114.7	52.9	56.5	16.5	1.8	
VEL=	1.5	4.3	7.7	15.2	9.2	9.7	10.2	10.2	9.5	7.0	4.3	2.1	

*SECNO 8.003

3301 HV CHANGED MORE THAN HVINS

8.00	7.46	2040.56	2039.92	.00	2042.02	1.46	10.45	.41	2035.10
12000.	4148.	5875.	1977.	646.	477.	338.	1519.	221.	2034.00
1.18	6.42	12.30	5.86	.075	.050	.080	.000	2033.10	9788.99
.014014	680.	581.	524.	4	15	0	.00	319.59	10108.59

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 S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      8.00          CWSEL=   2040.56

STA=    9789.    9850.    9875.    9889.    9902.    9914.    9925.    9940.    9953.   10026.   10047.   10080.   10109.
  PER Q=     4.2      4.3      4.4      4.8      4.5      3.5      4.7      4.2     49.0      6.1      6.8      3.6
   AREA=   124.7     91.0     74.4     76.6     71.5     57.4     79.3     71.6    477.5    108.9    141.6     87.1
    VEL=     4.0      5.6      7.1      7.5      7.6      7.3      7.1      7.1     12.3      6.7      5.8      4.9

*SECNO 8.095
     8.10     7.08  2049.18  2049.01      .00  2050.98     1.81     8.68      .28  2043.10
   12000.      77.    6362.    5562.      16.     476.     816.    1536.     225.  2044.10
     1.20     4.83    13.36     6.81     .080     .050     .075     .000  2042.10  9969.98
  .019620     512.     488.     600.        3       11        0      .00   309.04 10279.01


FLOW DISTRIBUTION FOR SECNO=      8.10          CWSEL=   2049.18

STA=    9970.    9975.   10058.   10071.   10097.   10121.   10148.   10171.   10201.   10223.   10251.   10270.   10279.
  PER Q=      .6     53.0      3.8      6.1      6.1      8.1      4.7      4.2      3.4      6.4      3.4       .1
   AREA=    15.9    476.3     60.3    103.3    102.4    125.4     85.4     87.3     68.9    110.7     66.1      6.4
    VEL=     4.8     13.4      7.6      7.1      7.1      7.8      6.6      5.7      5.9      6.9      6.2      2.2

*SECNO 8.190

33[illegible]CHANGED MORE THAN HVINS

     8.19     7.62  2058.62  2057.81      .00  2059.68     1.06     8.39      .30  2053.90
   12000.     855.    3913.    7232.     158.     337.    1196.    1553.     229.  2055.00
     1.22     5.42    11.62     6.05     .080     .050     .075     .000  2051.00  9921.47
  .013836     512.     500.     524.        4       11        0      .00   393.89 10315.37


FLOW DISTRIBUTION FOR SECNO=      8.19          CWSEL=   2058.62

STA=    9921.    9965.   10020.   10048.   10069.   10095.   10130.   10163.   10188.   10212.   10228.   10247.   10268.
  PER Q=     7.1     32.6      5.1      4.4      4.3      4.8      5.1      8.1      7.3      4.4      5.3      4.0
   AREA=   157.9    336.8    106.5     88.5     93.0    113.6    114.4    134.7    126.1     76.8     94.4     83.4
    VEL=     5.4     11.6      5.8      6.0      5.5      5.1      5.4      7.2      7.0      6.8      6.8      5.8
STA=   10268.   10299.   10315.
  PER Q=     4.7      2.8
   AREA=   105.3     59.5
    VEL=     5.3      5.6
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.283

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
BOUNDARY SEC 8/9, T6N; R1W APPX RM. 8.294

8.28	6.89	2067.49	2067.49	.00	2069.44	1.95	8.07	.71	2062.70
12000.	923.	8299.	2778.	126.	647.	481.	1572.	233.	2063.50
1.23	7.31	12.82	5.78	.065	.050	.070	.000	2060.60	9923.70
.017371	476.	492.	568.	0	15	0	.00	311.11	10234.82

FLOW DISTRIBUTION FOR SECNO= 8.28 CWSEL= 2067.49

STA=	9924.	9960.	10069.	10096.	10137.	10164.	10199.	10230.	10235.
PER Q=	7.7	69.2	4.8	4.2	4.9	5.3	3.7	.2	
AREA=	126.3	647.3	91.0	100.4	92.3	108.7	81.5	7.0	
VEL=	7.3	12.8	6.3	5.1	6.4	5.9	5.4	3.4	

*SECNO 8.380

3301 HV CHANGED MORE THAN HVINS

8.38	6.73	2076.93	2075.85	.00	2077.64	.71	7.70	.50	2074.20
12000.	4227.	3538.	4235.	605.	461.	761.	1589.	238.	2073.40
1.25	6.99	7.67	5.57	.065	.050	.075	.000	2070.20	9784.30
.013353	548.	509.	476.	4	15	0	.00	491.52	10275.82

FLOW DISTRIBUTION FOR SECNO= 8.38 CWSEL= 2076.93

STA=	9784.	9798.	9809.	9821.	9848.	9866.	9908.	9933.	10071.	10109.	10138.	10167.	10187.
PER Q=	3.5	4.7	5.0	7.6	4.9	6.0	3.5	29.5	5.2	4.0	5.9	4.0	
AREA=	59.2	64.5	70.6	124.2	82.0	129.8	74.6	461.3	123.8	95.5	119.5	81.0	
VEL=	7.1	8.8	8.6	7.3	7.1	5.6	5.6	7.7	5.0	5.1	5.9	5.9	

STA=	10187.	10212.	10234.	10265.	10276.
PER Q=	5.6	4.3	5.7	.7	
AREA=	110.5	88.7	120.8	20.8	
VEL=	6.1	5.8	5.7	3.8	

*SECNO 8.473

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

8.47	5.54	2085.84	2085.55	.00	2087.49	1.65	9.10	.76	2083.50
12000.	4034.	4709.	3257.	469.	383.	360.	1607.	243.	2083.50
1.26	8.60	12.29	9.05	.070	.050	.070	.000	2080.30	9841.48
.025638	500.	496.	520.	3	15	0	.00	304.64	10146.11

FLOW DISTRIBUTION FOR SECNO= 8.47 CWSEL= 2085.84

STA=	9841.	9877.	9903.	9921.	9947.	9965.	10057.	10083.	10096.	10117.	10132.	10146.
PER Q=	12.1	9.3	4.2	5.2	2.8	39.2	4.4	3.2	9.6	7.5	2.4	
AREA=	151.1	119.9	64.4	83.3	50.1	383.1	75.4	48.0	111.8	85.4	39.4	
VEL=	9.6	9.3	7.9	7.4	6.7	12.3	7.0	8.1	10.3	10.5	7.4	

*SECNO 8.567

8.57	6.58	2095.68	2095.15	.00	2097.25	1.57	9.73	.03	2091.30
12000.	2900.	6524.	2575.	399.	540.	394.	1622.	246.	2090.60
1.28	7.27	12.08	6.53	.070	.050	.070	.000	2089.10	9877.51
.015167	520.	496.	492.	2	8	0	.00	290.72	10168.23

FLOW DISTRIBUTION FOR SECNO= 8.57 CWSEL= 2095.68

STA=	9878.	9906.	9926.	9942.	9967.	10057.	10087.	10108.	10137.	10168.
PER Q=	6.7	8.1	3.9	5.5	54.4	9.7	5.1	4.3	2.3	
AREA=	113.6	117.2	66.6	101.4	540.0	150.9	89.3	92.0	62.3	
VEL=	7.1	8.3	7.0	6.5	12.1	7.7	6.8	5.7	4.5	

*SECNO 8.667

8.67	6.71	2104.71	2104.20	.00	2106.42	1.71	9.06	.11	2100.00
12000.	3824.	6417.	1759.	445.	522.	279.	1638.	250.	2100.10
1.29	8.59	12.29	6.32	.075	.050	.075	.000	2098.00	9869.74
.018999	560.	526.	524.	4	11	0	.00	271.37	10141.10

FLOW DISTRIBUTION FOR SECNO= 8.67 CWSEL= 2104.71

STA=	9870.	9896.	9917.	9937.	9953.	10053.	10075.	10115.	10141.
PER Q=	10.1	9.8	7.1	4.9	53.5	5.2	8.3	1.2	
AREA=	137.0	130.1	103.7	74.4	522.2	90.2	149.9	38.5	
VEL=	8.8	9.1	8.2	7.8	12.3	6.9	6.6	3.8	

[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 8.745

3301 HV CHANGED MORE THAN HVINS

8.74	6.32	2111.12	2109.44	.00	2111.58	.46	4.66	.50	2107.10
12000.	5357.	3681.	2961.	1044.	579.	623.	1653.	253.	2105.50
1.31	5.13	6.36	4.75	.070	.055	.070	.000	2104.80	9690.64
.008175	352.	412.	420.	3	19	0	.00	546.18	10236.82

FLOW DISTRIBUTION FOR SECNO= 8.74 CWSEL= 2111.12

STA=	9691.	9713.	9735.	9751.	9770.	9792.	9817.	9834.	9850.	9873.	9899.	9933.	10071.
PER Q=	3.6	3.8	3.4	5.0	4.2	3.8	4.1	3.0	3.8	4.1	5.9	30.7
AREA=	85.0	91.8	74.5	102.2	97.7	96.9	86.9	70.1	92.7	103.4	143.0	578.7
VEL=	5.1	4.9	5.4	5.8	5.2	4.7	5.6	5.2	4.9	4.8	5.0	6.4

STA=	10071.	10093.	10115.	10146.	10181.	10211.	10230.	10237.
PER Q=	3.5	4.3	4.0	3.1	4.5	4.7	.6
AREA=	88.7	98.5	108.5	97.5	113.8	97.0	19.0
VEL=	4.8	5.2	4.5	3.8	4.8	5.8	3.6

*SECNO 8.859

33[illegible] CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

8.86	5.50	2122.20	2122.20	.00	2123.88	1.68	9.23	.97	2119.50
12000.	2773.	6597.	2630.	326.	555.	335.	1679.	260.	2119.30
1.33	8.51	11.88	7.85	.070	.055	.070	.000	2116.70	9824.59
.032151	700.	600.	620.	0	15	0	.00	369.75	10194.34

FLOW DISTRIBUTION FOR SECNO= 8.86 CWSEL= 2122.20

STA=	9825.	9862.	9885.	9918.	9932.	10075.	10093.	10110.	10127.	10144.	10179.	10194.
PER Q=	11.3	6.4	3.6	1.8	55.0	3.5	3.7	5.1	3.6	3.6	2.5
AREA=	140.9	83.7	68.3	32.9	555.1	53.7	53.9	64.4	52.8	69.8	40.3
VEL=	9.6	9.1	6.4	6.5	11.9	7.7	8.2	9.4	8.1	6.3	7.4

*SECNO 8.958

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

M-5 TRIBUTARY, M-4 TRIBUTARY APPX RM. 8.878

8.96	6.55	2133.25	2132.14	.00	2133.94	.70	9.67	.39	2129.20
8130.	1021.	4996.	2113.	181.	643.	558.	1695.	265.	2129.90
1.35	5.64	7.77	3.78	.065	.055	.085	.000	2126.70	9871.78
.009939	484.	522.	568.	4	5	0	.00	378.31	10250.09

FLOW DISTRIBUTION FOR SECNO= 8.96 CWSEL= 2133.25

STA=	9872.	9904.	9915.	9927.	10058.	10084.	10113.	10124.	10137.	10160.	10186.	10227.	10250.
PER Q=	4.4	4.5	3.7	61.4	4.1	4.2	3.2	3.9	3.3	3.1	3.5	.7	
AREA=	75.6	56.4	49.2	643.2	86.2	90.1	54.6	62.5	70.8	73.2	92.8	28.1	
VEL=	4.7	6.4	6.1	7.8	3.8	3.8	4.8	5.1	3.8	3.4	3.0	2.1	

*SECNO 9.050

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
372 TICAL DEPTH ASSUMED

5	5.06	2142.16	2142.16	.00	2143.76	1.60	7.39	.73	2140.10
8130.	6.	7506.	619.	2.	715.	138.	1707.	268.	2141.10
1.37	2.87	10.50	4.47	.065	.055	.075	.000	2137.10	9880.35
.025118	476.	490.	516.	0	15	0	.00	286.77	10167.12

FLOW DISTRIBUTION FOR SECNO= 9.05 CWSEL= 2142.16

STA=	9880.	9882.	10068.	10085.	10103.	10119.	10129.	10143.	10158.	10167.
PER Q=	.1	92.3	.3	.4	1.3	1.9	2.2	1.2	.2	
AREA=	2.0	714.7	10.6	12.6	25.4	27.1	32.3	23.2	7.3	
VEL=	2.9	10.5	2.2	2.5	4.3	5.8	5.5	4.2	2.6	

*SECNO 9.146

9.15	5.64	2153.74	2153.03	.00	2154.99	1.25	11.09	.14	2149.00
8130.	1516.	3686.	2928.	172.	359.	409.	1718.	271.	2149.20
1.38	8.81	10.25	7.15	.065	.055	.075	.000	2148.10	9949.05
.019211	488.	503.	528.	4	8	0	.00	224.96	10174.01

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 9.15 CWSEL= 2153.74

STA=	9949.	9962.	9977.	9988.	10067.	10080.	10094.	10113.	10131.	10161.	10174.
PER Q=	4.3	8.4	5.9	45.3	5.4	7.4	11.2	6.0	4.4	1.7	
AREA=	46.2	73.6	52.3	359.5	58.1	73.8	104.9	71.4	72.1	29.1	
VEL=	7.6	9.3	9.1	10.3	7.5	8.1	8.7	6.8	5.0	4.7	

*SECNO 9.244

9.24	5.41	2164.21	2163.63	.00	2165.20	.98	10.10	.11	2162.20
8130.	1307.	3069.	3753.	227.	340.	488.	1730.	275.	2162.00
1.40	5.76	9.02	7.69	.075	.055	.065	.000	2158.80	9902.84
.020258	640.	518.	452.	4	15	0	.00	317.32	10220.16

FLOW DISTRIBUTION FOR SECNO= 9.24 CWSEL= 2164.21

STA=	9903.	9928.	9951.	9986.	10080.	10095.	10103.	10111.	10136.	10150.	10167.	10195.	10209.
PER Q=	7.6	4.4	4.1	37.8	3.3	3.0	3.8	9.1	4.7	6.1	11.4	4.1	
AREA=	90.8	63.3	73.0	340.2	42.0	30.9	35.2	95.0	50.2	63.5	112.1	47.3	
VEL=	6.8	5.6	4.6	9.0	6.4	8.0	8.9	7.8	7.7	7.8	8.3	7.1	
STA=	10209.	10220.											
PER Q=	.5												
[illegible]	11.9												
[illegible]=	3.4												

*SECNO 9.327

3301 HV CHANGED MORE THAN HVINS

9.33	6.10	2173.40	2173.16	.00	2175.19	1.79	9.35	.64	2168.50
8130.	1787.	5375.	968.	256.	464.	84.	1739.	277.	2168.30
1.41	6.98	11.58	11.51	.075	.055	.055	.000	2167.30	9901.97
.022607	464.	439.	416.	3	8	0	.00	191.52	10093.49

FLOW DISTRIBUTION FOR SECNO= 9.33 CWSEL= 2173.40

STA=	9902.	9920.	9934.	9947.	9960.	9976.	9980.	10076.	10091.	10093.
PER Q=	1.3	4.5	5.7	4.3	4.8	1.4	66.1	11.5	.4	
AREA=	26.4	51.8	56.4	49.1	57.4	15.0	464.0	76.4	7.7	
VEL=	3.9	7.0	8.2	7.2	6.9	7.6	11.6	12.2	4.8	

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 9.403

3470 ENCROACHMENT STATIONS=    9867.0   10116.0  TYPE=     1  TARGET=     249.000
     9.40     5.71  2182.11  2181.66      .00  2183.46     1.34     8.09      .18  2178.30
    8130.     1512.    6603.      15.     293.     659.       5.    1747.     279.   2179.40
     1.42     5.16    10.03     2.85     .080     .055     .075     .000  2176.40  9867.00
  .018016     400.     402.     412.        2       15        0      .00   246.07 10113.07


FLOW DISTRIBUTION FOR SECNO=      9.40          CWSEL=   2182.11

STA=    9867.    9868.    9876.    9880.    9888.    9905.    9918.    9930.    9943.    9952.    9967.   10109.   10113.
  PER Q=      .0      1.3       .8      2.2      4.0      2.6      1.8      1.4      1.2      3.3     81.2       .2
   AREA=     1.3     22.5     12.4     30.6     57.3     39.5     31.5     27.7     21.7     48.6    658.6      5.3
    VEL=     1.4      4.8      5.4      5.8      5.7      5.3      4.7      4.2      4.4      5.5     10.0      2.9

*SECNO 9.502
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
     9.50     4.37  2194.67  2194.67      .00  2196.11     1.43    12.46      .07  2191.70
    8130.    3346.    3654.    1129.     385.     322.     231.    1759.     283.   2192.60
     1.44     8.69    11.35     4.89     .070     .055     .085     .000  2190.30  9797.48
  .031723     540.     524.     568.        0       15        0      .00   330.36 10127.85


FLOW DISTRIBUTION FOR SECNO=      9.50          CWSEL=   2194.67

STA=    9797.    9820.    9835.    9847.    9860.    9877.    9889.    9901.    9911.   10000.   10049.   10084.   10111.
  PER Q=     6.8      6.7      5.9      4.3      4.6      3.7      5.0      4.2     44.9      3.5      3.6      4.8
   AREA=    65.7     57.7     50.5     41.2     49.1     37.8     44.3     38.8    321.9     67.5     62.9     68.3
    VEL=     8.4      9.4      9.5      8.4      7.6      8.0      9.2      8.9     11.4      4.2      4.7      5.7
STA=   10111.   10128.
  PER Q=     2.0
   AREA=    32.2
    VEL=     5.1

*SECNO 9.592

3301 HV CHANGED MORE THAN HVINS

     9.59     4.44  2205.74  2205.16      .00  2206.65      .91    10.33      .21  2203.60
    8130.    1662.    5986.     482.     302.     721.      96.    1770.     287.   2203.20
     1.46     5.50     8.30     5.00     .070     .050     .075     .000  2201.30  9830.80
  .015040     516.     474.     500.        4       15        0      .00   353.34 10184.14
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[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
[illegible]	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 9.59 CWSEL= 2205.74

STA=	9831.	9860.	9876.	9890.	9922.	9940.	10149.	10165.	10184.
PER Q=	6.2	5.6	3.2	3.6	1.9	73.6	3.2	2.7	
AREA=	85.5	67.9	44.4	67.8	36.6	720.9	49.9	46.5	
VEL=	5.9	6.8	5.8	4.3	4.1	8.3	5.2	4.8	

*SECNO 9.661

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

9.66	5.23	2213.83	2213.83	.00	2215.48	1.66	6.77	.60	2210.20
8130.	62.	5608.	2460.	17.	475.	417.	1779.	289.	2212.10
1.47	3.69	11.80	5.89	.085	.050	.075	.000	2208.60	9917.97
.022133	336.	365.	436.	0	11	0	.00	271.32	10189.29

FLOW DISTRIBUTION FOR SECNO= 9.66 CWSEL= 2213.83

STA=	9918.	9927.	10036.	10053.	10069.	10084.	10093.	10117.	10132.	10147.	10168.	10187.	10189.
PER Q=	.8	69.0	1.6	2.0	2.0	1.6	5.9	4.8	4.5	4.0	3.8	.2	
[illegible]	16.7	475.2	29.9	33.4	32.2	24.3	74.7	56.2	52.6	56.8	52.9	4.4	
[illegible]L=	3.7	11.8	4.2	4.9	4.9	5.4	6.4	7.0	6.9	5.7	5.9	3.0	

*SECNO 9.760
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

9.76	5.51	2225.91	2225.91	.00	2227.51	1.59	10.97	.03	2223.50
8130.	580.	7542.	9.	153.	721.	4.	1790.	293.	2224.00
1.48	3.78	10.47	2.25	.075	.050	.085	.000	2220.40	9796.26
.020067	536.	520.	520.	0	8	0	.00	312.44	10108.70

FLOW DISTRIBUTION FOR SECNO= 9.76 CWSEL= 2225.91

STA=	9796.	9801.	9809.	9833.	9843.	9859.	9873.	9902.	9923.	10105.	10109.
PER Q=	.1	.2	.3	.5	.2	.5	2.6	2.7	92.8	.1	
AREA=	4.4	6.1	9.7	12.1	8.2	14.5	51.5	46.7	720.6	3.9	
VEL=	2.4	2.5	2.7	3.2	1.8	2.8	4.1	4.8	10.5	2.3	

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 9.868

3301 HV CHANGED MORE THAN HVINS

9.87	4.99	2237.79	2237.06	.00	2238.52	.72	10.66	.35	2235.10
8130.	999.	3127.	4004.	178.	352.	801.	1804.	298.	2235.40
1.51	5.61	8.87	5.00	.075	.050	.085	.000	2232.80	9896.28
.017643	596.	570.	548.	4	19	0	.00	430.94	10327.22

FLOW DISTRIBUTION FOR SECNO= 9.87 CWSEL= 2237.79

STA=	9896.	9912.	9927.	9954.	10058.	10098.	10133.	10149.	10175.	10188.	10213.	10251.	10298.
PER Q=	3.8	3.6	4.9	38.5	5.4	7.6	5.1	7.0	4.6	5.8	5.4	5.7	
AREA=	52.3	49.5	76.1	352.4	101.6	116.4	69.3	99.1	59.4	87.9	98.7	111.8	
VEL=	5.9	5.9	5.3	8.9	4.3	5.3	6.0	5.7	6.3	5.4	4.4	4.1	

STA=	10298.	10327.
PER Q=	2.7	
AREA=	57.0	
VEL=	3.8	

*SECNO 9.970

330[illegible] CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
BOUNDARY SEC 5/6, T6N; R1W APPX RM. 9.900

9.97	4.91	2249.41	2249.41	.00	2250.74	1.34	9.84	.49	2246.90
8130.	2617.	4469.	1044.	438.	387.	310.	1821.	304.	2247.80
1.52	5.97	11.54	3.37	.070	.040	.085	.000	2244.50	9776.36
.017321	528.	541.	620.	0	5	0	.00	441.56	10217.92

FLOW DISTRIBUTION FOR SECNO= 9.97 CWSEL= 2249.41

STA=	9776.	9809.	9849.	9877.	9891.	9905.	9923.	10029.	10112.	10159.	10211.	10218.
PER Q=	4.1	9.0	9.2	4.0	3.1	2.8	55.0	4.5	5.0	3.3	.0	
AREA=	69.8	123.3	107.4	49.8	43.7	44.0	387.2	122.0	103.7	81.3	2.6	
VEL=	4.8	5.9	6.9	6.6	5.7	5.2	11.5	3.0	3.9	3.3	1.1	

*SECNO 10.064

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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
[illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   10.06     5.72  2261.02  2261.02      .00  2262.91     1.90    10.89      .45  2256.40
   8130.     677.     7309.     144.     128.     635.      25.    1833.     308.   2255.70
    1.54     5.27     11.52     5.75     .075     .055     .070     .000  2255.30  9863.66
 .023956     596.      497.     787.        0        8        0      .00   215.86 10079.52


FLOW DISTRIBUTION FOR SECNO=     10.06          CWSEL=   2261.02

STA=    9864.    9886.    9911.    9922.    9932.   10070.   10080.
  PER Q=      .7      2.5      1.6      3.4     89.9      1.8
   AREA=    20.6     45.4     24.6     37.7    634.6     25.0
    VEL=     2.9      4.6      5.4      7.4     11.5      5.8

*SECNO 10.165
        BOUNDARY SEC 6/31, T6N/T7N; R1W APPX RM. 10.112
   10.16     6.47  2272.67  2272.27      .00  2274.11     1.44    11.01      .18  2269.50
   8130.      40.     5336.     2754.      10.     486.     441.    1844.     311.   2270.60
[illegible]5     3.81     10.98     6.25     .075     .055     .070     .000  2266.20  9925.39
.[illegible]7     480.      530.     632.        4        8        0      .00   233.34 10158.73


FLOW DISTRIBUTION FOR SECNO=     10.16          CWSEL=   2272.67

STA=    9925.    9932.   10020.   10048.   10082.   10103.   10118.   10132.   10147.   10159.
  PER Q=      .5     65.6      4.7      6.4      5.3      6.3      5.1      4.8      1.2
   AREA=    10.4    485.8     72.6     93.9     70.6     67.2     57.7     56.9     21.8
    VEL=     3.8     11.0      5.2      5.6      6.2      7.7      7.2      6.9      4.4

*SECNO 10.266

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   10.27     6.64  2282.44  2282.44      .00  2284.44     2.00     9.54      .45  2277.50
   8130.     113.     3953.     4064.      26.     274.     553.    1855.     314.   2278.20
    1.57     4.27     14.45     7.35     .080     .045     .070     .000  2275.80  9952.52
 .017987     548.      538.     548.        0        8        0      .00   215.60 10168.11
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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     10.27          CWSEL=   2282.44

STA=    9953.    9963.   10009.   10028.   10045.   10061.   10077.   10088.   10092.   10112.   10137.   10168.
  PER Q=      1.4     48.6      6.7      6.3      6.9      9.7      7.6      2.2      6.2      3.6       .9
   AREA=     26.4    273.6     76.0     70.7     71.2     89.8     66.0     20.8     72.8     58.7     27.1
    VEL=      4.3     14.4      7.2      7.2      7.9      8.8      9.3      8.4      6.9      4.9      2.6

*SECNO 10.355
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
       M-3 TRIBUTARY APPX RM. 10.332
   10.35     5.68  2292.68  2292.68      .00  2294.78     2.10     9.11      .08  2287.00
   8130.      21.    5785.    2324.       7.     444.     326.    1865.     316.   2287.70
    1.58     2.88    13.02     7.12     .080     .045     .070     .000  2287.00  9946.94
 .019604     456.     466.     516.        0       15        0      .00   187.25 10134.20


FLOW DISTRIBUTION FOR SECNO=     10.35          CWSEL=   2292.68

STA=    9947.    9950.   10043.   10060.   10070.   10090.   10111.   10128.   10134.
  PER Q=       .3     71.2      6.8      3.7      9.2      4.6      3.6       .6
   AREA=      7.3    444.2     71.1     40.0     92.4     60.6     50.2     12.2
             2.9     13.0      7.8      7.6      8.1      6.1      5.9      4.2

*SECNO 10.445

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
   10.44     6.07  2303.57  2303.57      .00  2305.17     1.60     9.17      .20  2297.70
   4820.    1702.    2600.     518.     355.     203.      68.    1873.     318.   2297.70
    1.59     4.80    12.81     7.60     .080     .050     .070     .000  2297.50  9856.02
 .017140     552.     478.     484.        0        8        0      .00   185.22 10041.23


FLOW DISTRIBUTION FOR SECNO=     10.44          CWSEL=   2303.57

STA=    9856.    9865.    9894.    9911.    9945.    9968.    9986.    9991.   10025.   10035.   10041.
  PER Q=       .7      4.5      3.6      8.8      6.1      8.2      3.5     53.9      9.1      1.6
   AREA=     12.4     56.6     40.1     90.3     62.0     67.9     25.6    203.0     50.8     17.4
    VEL=      2.9      3.8      4.3      4.7      4.7      5.8      6.6     12.8      8.7      4.5
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 10.573
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    10.57     4.78  2320.18  2320.18      .00  2321.74     1.56    13.42      .01  2318.00
    4820.    1287.    2904.     629.     196.     245.     113.    1881.     321.   2317.40
     1.61     6.58    11.86     5.57     .075     .045     .080     .000  2315.40  9890.17
  .024411     628.     675.     680.        0       15        0      .00   181.71 10071.87


FLOW DISTRIBUTION FOR SECNO=     10.57          CWSEL=   2320.18

STA=    9890.    9893.    9910.    9924.    9936.    9957.   10027.   10051.   10060.   10072.
  PER Q=      .1      6.6      9.8      4.9      5.3     60.3      8.9      3.1      1.0
   AREA=     2.4     50.0     60.0     35.9     47.4    244.8     72.6     25.4     14.9
    VEL=     2.6      6.4      7.8      6.6      5.4     11.9      5.9      5.8      3.4

*SECNO 10.666
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    10.67     5.99  2333.19  2333.19      .00  2334.80     1.61     9.24      .04  2329.20
    4820.     769.    4013.      38.     205.     364.      12.    1888.     323.   2327.40
     1.63     3.75    11.02     3.16     .075     .045     .080     .000  2327.20  9892.06
  .016482     536.     493.     460.        0       11        0      .00   189.96 10082.01


FLOW DISTRIBUTION FOR SECNO=     10.67          CWSEL=   2333.19

STA=    9892.    9901.    9929.    9970.    9985.   10000.   10078.   10082.
  PER Q=      .7      5.2      4.4      1.7      4.0     83.3       .8
   AREA=    11.8     62.1     65.5     24.5     41.1    364.2     11.9
    VEL=     2.9      4.0      3.3      3.3      4.7     11.0      3.2

*SECNO 10.752
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    10.75     5.67  2342.67  2342.67      .00  2344.61     1.94     7.66      .27  2340.50
    4820.     310.    4490.      20.      75.     390.       8.    1893.     325.   2340.90
     1.64     4.11    11.52     2.41     .085     .050     .080     .000  2337.00  9919.19
  .020207     432.     453.     512.        0       11        0      .00   131.95 10051.14


FLOW DISTRIBUTION FOR SECNO=     10.75          CWSEL=   2342.67

STA=    9919.    9922.    9933.    9956.   10042.   10051.
  PER Q=      .0      1.5      4.9     93.1       .4
   AREA=     1.2     20.2     54.1    389.6      8.4
    VEL=     1.5      3.6      4.4     11.5      2.4
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 10.850
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    10.85     5.70  2354.59  2354.59      .00  2356.90     2.31    10.87      .29  2348.90
    4820.     185.    4472.     164.      34.     356.      32.    1899.     326.   2349.40
     1.65     5.45    12.56     5.19     .075     .050     .075     .000  2348.90  9968.10
  .021472     652.     515.     516.        0        5        0      .00    96.36 10064.46


FLOW DISTRIBUTION FOR SECNO=     10.85          CWSEL=   2354.59

STA=    9968.    9980.   10052.   10064.
  PER Q=      3.8     92.8      3.4
   AREA=     33.9    355.9     31.6
    VEL=      5.4     12.6      5.2

*SECNO 10.949
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    10.95     7.24  2368.94  2368.94      .00  2371.29     2.35    10.79      .03  2361.70
    4820.    1875.    2620.     326.     287.     168.      53.    1905.     328.   2361.70
     1.66     6.53    15.59     6.09     .075     .050     .075     .000  2361.70  9920.72
  [illegible]1     528.     524.     540.        0       12        0      .00   117.26 10037.97


FLOW DISTRIBUTION FOR SECNO=     10.95          CWSEL=   2368.94

STA=    9921.   10000.   10023.   10038.
  PER Q=     38.9     54.3      6.8
   AREA=    287.1    168.0     53.5
    VEL=      6.5     15.6      6.1

*SECNO 11.045
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    11.05     7.78  2379.88  2379.88      .00  2382.58     2.70    10.48      .28  2375.80
    4820.     761.    3904.     155.     112.     273.      28.    1910.     329.   2372.50
     1.68     6.79    14.30     5.51     .075     .055     .075     .000  2372.10  9947.63
  .021079     540.     507.     488.        0        8        0      .00    78.10 10025.74


FLOW DISTRIBUTION FOR SECNO=     11.05          CWSEL=   2379.88

STA=    9948.    9954.    9980.   10018.   10026.
  PER Q=       .9     14.9     81.0      3.2
   AREA=     10.8    101.2    273.0     28.2
    VEL=      3.9      7.1     14.3      5.5
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 STAG    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 11.147
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    11.15     5.86  2394.96  2394.96      .00  2397.20     2.23    14.32      .19  2391.00
    4820.     500.    4192.     127.      72.     333.      23.    1915.     330.   2389.60
     1.69     6.92    12.59     5.63     .085     .065     .085     .000  2389.10  9949.36
  .034878     532.     538.     520.        0       15        0      .00    98.87 10048.23


FLOW DISTRIBUTION FOR SECNO=     11.15          CWSEL=   2394.96

STA=    9949.    9958.    9975.   10040.   10048.
  PER Q=      1.1      9.2     87.0      2.6
   AREA=     13.2     59.0    333.0     22.6
    VEL=      4.2      7.5     12.6      5.6

*SECNO 11.266
    11.27     7.90  2412.40  2411.59      .00  2414.19     1.79    16.81      .18  2406.10
    4820.     108.    3419.    1293.      21.     287.     178.    1922.     331.   2407.30
     1.70     5.13    11.91     7.27     .085     .065     .085     .000  2404.50  9973.61
  .021726     520.     631.     600.        4       11        0      .00    88.33 10061.94


FLOW DISTRIBUTION FOR SECNO=     11.27          CWSEL=   2412.40

STA=    9974.    9976.    9980.   10023.   10037.   10053.   10062.
  PER Q=       .1      2.1     70.9     10.8     13.8      2.3
   AREA=      2.9     18.2    287.1     68.2     85.4     24.3
    VEL=      2.3      5.6     11.9      7.6      7.8      4.5

*SECNO 11.352

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    11.35     7.16  2425.16  2425.16      .00  2427.58     2.42    12.29      .50  2422.90
    4820.     990.    3801.      29.     119.     284.       7.    1926.     332.   2419.80
     1.71     8.31    13.40     3.87     .085     .065     .085     .000  2418.00  9937.50
  .036917     350.     453.     455.        0       11        0      .00    87.99 10025.48
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=     11.35          CWSEL=   2425.16

STA=    9937.    9946.    9953.    9955.    9963.    9970.   10023.   10025.
  PER Q=      1.3      4.0      1.2      9.8      4.3     78.9       .6
   AREA=     14.2     24.9      8.4     45.0     26.7    283.7      7.5
    VEL=      4.6      7.7      6.7     10.5      7.7     13.4      3.9

*SECNO 11.431
    11.43     5.58  2439.18  2438.87      .00  2441.26     2.08    13.55      .14  2433.60
    4820.    2382.    2238.     200.     198.     197.      28.    1930.     333.   2433.60
     1.73    12.05    11.38     7.25     .060     .065     .060     .000  2433.60  9939.29
  .026207     480.     419.     360.        3       15        0      .00    85.20 10024.49


FLOW DISTRIBUTION FOR SECNO=     11.43          CWSEL=   2439.18

STA=    9939.    9946.    9978.   10015.   10024.
  PER Q=      2.7     46.7     46.4      4.2
   AREA=     19.3    178.3    196.7     27.6
    VEL=      6.7     12.6     11.4      7.3

*SECNO 11.527
7185 [illegible]IMUM SPECIFIC ENERGY
372[illegible]TICAL DEPTH ASSUMED
        BOUNDARY SEC COR. 25/26/30, T7N; R1W/R2W APPX RM. 11.515
        M-2 TRIBUTARY APPX RM. 11.479
    11.53     5.14  2451.54  2451.54      .00  2453.54     2.00    11.29      .03  2451.90
    4820.       0.    3563.    1257.       0.     289.     157.    1935.     334.   2447.00
     1.74      .00    12.31     8.00     .060     .045     .060     .000  2446.40  9952.18
  .019430     515.     503.     485.        0       11        0      .00   109.93 10062.11


FLOW DISTRIBUTION FOR SECNO=     11.53          CWSEL=   2451.54

STA=    9952.   10017.   10024.   10057.   10062.
  PER Q=     73.9      5.4     19.9       .8
   AREA=    289.5     29.9    118.4      8.7
    VEL=     12.3      8.7      8.1      4.4

*SECNO 11.636
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    11.64     6.06  2467.06  2467.06      .00  2469.50     2.45    10.12      .36  2462.40
    4820.     845.    3856.     120.     109.     285.      22.    1941.     335.   2461.00
     1.75     7.75    13.52     5.48     .060     .045     .060     .000  2461.00  9941.71
  .015933     585.     577.     570.        0        8        0      .00    84.41 10026.11
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 11.64 CWSEL= 2467.06

STA=	9942.	9944.	9947.	9970.	10019.	10026.
PER Q=	.2	1.3	16.0	80.0	2.5	
AREA=	3.5	8.9	96.5	285.2	21.8	
VEL=	3.0	6.9	8.0	13.5	5.5	

*SECNO 11.712

3301 HV CHANGED MORE THAN HVINS

11.71	5.97	2476.47	2476.24	.00	2478.08	1.62	8.25	.33	2472.10
4820.	403.	2255.	2162.	59.	181.	275.	1945.	336.	2472.40
1.76	6.79	12.45	7.86	.060	.055	.085	.000	2470.50	9953.08
.028113	370.	398.	412.	2	8	0	.00	139.24	10092.32

FLOW DISTRIBUTION FOR SECNO= 11.71 CWSEL= 2476.47

STA=	9953.	9979.	9989.	10028.	10045.	10055.	10062.	10084.	10092.
PER Q=	2.6	5.8	46.8	8.3	5.2	6.0	22.8	2.6	
AREA=	28.2	31.1	181.2	58.8	36.3	35.5	120.9	23.6	
	4.4	9.0	12.4	6.8	6.9	8.2	9.1	5.2	

*SECNO 11.813

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

11.81	6.89	2492.09	2492.09	.00	2494.82	2.73	13.75	.89	2485.40
4820.	1303.	3298.	219.	120.	229.	35.	1951.	338.	2485.90
1.77	10.82	14.42	6.23	.060	.055	.070	.000	2485.20	9956.50
.022709	510.	538.	590.	0	8	0	.00	72.16	10028.67

FLOW DISTRIBUTION FOR SECNO= 11.81 CWSEL= 2492.09

STA=	9957.	9965.	9983.	10017.	10029.
PER Q=	2.5	24.5	68.4	4.6	
AREA=	20.0	100.5	228.7	35.2	
VEL=	6.0	11.8	14.4	6.2	

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 S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 Q[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 11.914
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    11.91     6.87  2505.27  2505.27      .00  2507.68     2.41     9.88      .13  2500.80
    4820.     528.    4156.     137.     102.     313.      30.    1956.     339.   2500.30
     1.79     5.19    13.26     4.60     .080     .045     .070     .000  2498.40  9942.14
  .015502     531.     531.     535.        0        5        0      .00    98.44 10040.58


FLOW DISTRIBUTION FOR SECNO=     11.91          CWSEL=   2505.27

STA=    9942.    9947.    9965.    9976.   10029.   10041.
  PER Q=       .2      4.9      5.9     86.2      2.8
   AREA=      4.0     51.0     46.5    313.4     29.8
    VEL=      2.0      4.6      6.1     13.3      4.6

*SECNO 12.018
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
    12.02     5.35  2519.85  2519.85      .00  2521.80     1.95    11.02      .18  2516.10
    4820.     761.    3654.     405.     118.     295.      69.    1962.     340.   2514.50
     1.80     6.46    12.37     5.85     .085     .055     .080     .000  2514.50  9922.35
  [illegible]0     535.     546.     560.        0       16        0      .00   126.77 10049.12


FLOW DISTRIBUTION FOR SECNO=     12.02          CWSEL=   2519.85

STA=    9922.    9931.    9959.   10023.   10049.
  PER Q=      1.2     14.6     75.8      8.4
   AREA=     14.4    103.4    295.5     69.1
    VEL=      4.0      6.8     12.4      5.9
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THIS RUN EXECUTED 02-23-90

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
**************************************************


T1       FLOOD CONTROL DISTRICT OF MARICOPA COUNTY      01/29/90  FILE:  MC-FPFW
T2      100-YEAR FLOOD DELINEATION STUDY ***ENCR BY METHOD      ONE     ***
T3      MORGAN CITY WASH         GUA FRIA RIVER TO MARICOPA/YAVAPAI COUNTY LINE

J1  ICHECK    INQ       NINV      IDIR      STRT      METRIC    HVINS     Q         WSEL      FQ

      0.        3.        0.        0.   .000000       .00        .5        0.  1420.100      .000

J2  NPROF     IPLOT     PRFVS     XSECV     XSECH     FN        ALLDC     IBW       CHNIM     ITRACE

    15.000      .000    -1.000      .000      .000      .000    -1.000      .000      .000    15.000
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[illegible]  DEPTH   CWSEL   CRIWS   WSELK   EG      HV      HL      OLOSS   BANK ELEV
[illegible]  QLOB    QCH     QROB    ALOB    ACH     AROB    VOL     TWA   LEFT/RIGHT
TIME         VLOB    VCH     VROB    XNL     XNCH    XNR     WTN     ELMIN     SSTA
SLOPE        XLOBL   XLCH    XLOBR   ITRIAL  IDC     ICONT   CORAR   TOPWID    ENDST


*PROF 2

CRITICAL DEPTH TO BE CALCULATED AT ALL CROSS SECTIONS

CCHV=    .400 CEHV=    .800
*SECNO  .141

3470 ENCROACHMENT STATIONS=    9898.0   10142.0  TYPE=     1  TARGET=     244.000
      .14    22.20  1420.10  1412.42  1420.10  1420.56     .46     .00     .00  1398.10
   14400.    4751.    4767.    4882.    1135.     629.    1282.      0.      0.   1402.30
      .00     4.19     7.58     3.81     .085     .065     .085    .000  1397.90  9898.00
  .001946       0.       0.       0.        0       13        0     .00   244.00 10142.00


FLOW DISTRIBUTION FOR SECNO=       .14          CWSEL=   1420.10

STA=    9898.    9919.    9938.    9948.    9958.    9970.    9977.    9980.   10009.   10028.   10036.   10058.   10078.
  PER Q=      4.7      9.3      4.0      4.7      6.1      3.3      1.0     33.1     11.6      3.0      5.9      4.6
   AREA=    226.2    286.8    129.7    151.2    180.2    106.2     54.9    628.6    323.5    112.6    229.0    189.4
    VEL=      3.0      4.6      4.4      4.5      4.9      4.4      2.5      7.6      5.2      3.9      3.7      3.5
STA=   10078.   10096.   10127.   10142.
  PER Q=      4.0      4.5       .3
[illegible]  171.1    221.7     34.5
[illegible]    3.4      2.9      1.3

*SECNO  .161
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9872.0   10165.0  TYPE=     1  TARGET=     293.000
      .16    18.62  1421.42  1421.42  1421.42  1422.02     .60     .27     .11  1412.80
   14400.    2985.    6317.    5099.     703.     791.    1144.      6.      1.   1412.80
      .00     4.25     7.98     4.46     .085     .065     .085    .000  1402.80  9872.00
  .004134     125.     104.      70.        0       12        0     .00   293.00 10165.00


FLOW DISTRIBUTION FOR SECNO=       .16          CWSEL=   1421.42

STA=    9872.    9880.    9920.    9979.   10021.   10120.   10145.   10165.
  PER Q=       .0      4.4     16.3     43.9     27.4      5.5      2.6
   AREA=      5.7    196.6    500.7    791.1    840.5    185.4    117.8
    VEL=       .9      3.2      4.7      8.0      4.7      4.3      3.1
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 S        DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


SPECIAL BRIDGE

5227 DOWNSTREAM ELEV IS   1415.43 ,NOT   1421.42 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK       XKOR     COFQ     RDLEN    BWC      BWP      BAREA    SS       ELCHU    ELCHD
    1.25     1.56     2.70      .00    42.50     2.50   400.00     .00   1403.60  1402.80

*SECNO  .177
PRESSURE AND WEIR FLOW


 EGPRS     EGLWC     H3       QWEIR    QPR      BAREA   TRAPEZOID      ELLC     ELTRD
                                                          AREA
  1452.81  1424.31    .00     8418.    5999.    400.     400.     1413.60  1422.00



3470 ENCROACHMENT STATIONS=    9868.0   10150.0  TYPE=     1  TARGET=     282.000
     .18    22.81  1426.41     .00  1426.54  1426.86     .46     4.85     .00  1413.60
   14400.   2566.   6671.    5162.    759.     969.    1323.     12.       1.   1413.60
     .01    3.38    6.88    3.90    .085     .065    .085    .000  1403.60  9868.70
     [illegible]3    88.     88.     88.       2        0       5     .00   281.30 10150.00


FLOW DISTRIBUTION FOR SECNO=       .18          CWSEL=   1426.41

STA=    9869.    9890.    9965.    9979.   10021.   10060.   10150.
  PER Q=      .3     12.4      5.2     46.3     14.5     21.3
   AREA=    36.3    555.6    167.1    969.3    468.6    854.9
    VEL=     1.2      3.2      4.4      6.9      4.5      3.6

*SECNO  .187

3470 ENCROACHMENT STATIONS=    9884.0   10114.0  TYPE=     1  TARGET=     230.000
       OLD LAKE PLEASANT ACCESS RD APPX RM. 0.169
     .19    23.72  1426.62  1414.49  1426.60  1426.98     .36      .07      .04  1407.20
   14400.   4166.   9349.     885.    1277.    1702.    349.      16.       1.   1407.50
     .01    3.26    5.49    2.54    .085     .065    .085    .000  1402.90  9884.45
  .000984     31.     51.     71.       2        8       0     .00   229.18 10113.63


FLOW DISTRIBUTION FOR SECNO=       .19          CWSEL=   1426.62

STA=    9884.    9930.    9957.    9965.    9978.    9990.   10069.   10081.   10114.
  PER Q=      4.2      9.0      3.6      6.3      5.8     64.9      4.1      2.1
   AREA=    287.8    395.0    141.4    238.0    215.1   1702.0    183.7    164.9
    VEL=      2.1      3.3      3.7      3.8      3.9      5.5      3.2      1.8
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO  .278

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9950.0   10064.0  TYPE=     1  TARGET=     114.000
      .28    17.66  1427.56  1423.19  1427.55  1429.40     1.84     1.24     1.19  1416.30
   14400.     991.   12973.     435.     115.    1160.      75.      42.       3.   1418.70
      .02     8.61    11.18     5.82     .085     .100     .085     .000  1409.90  9950.00
  .016860     492.     484.     465.        3       11        0      .00   113.87 10063.87


FLOW DISTRIBUTION FOR SECNO=       .28          CWSEL=   1427.56

STA=    9950.    9954.    9965.   10047.   10063.   10064.
  PER Q=       .3      6.6     90.1      3.0       .0
   AREA=     14.2    100.9   1160.3     74.5       .3
    VEL=      3.4      9.4     11.2      5.8       .8

*SECNO  .375

3265 DIVIDED FLOW

[illegible]

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9909.0   10025.0  TYPE=     1  TARGET=     116.000
      .38    23.35  1439.95  1438.49  1439.95  1443.43     3.48    12.72     1.31  1428.70
   14400.    4543.    6733.    3125.     367.     395.     229.      55.       5.   1416.60
      .03    12.38    17.03    13.64     .085     .100     .085     .000  1416.60  9909.49
  .040912     500.     509.     518.        2       11        0      .00   102.05 10024.58


FLOW DISTRIBUTION FOR SECNO=       .38          CWSEL=   1439.95

STA=    9909.    9926.    9933.    9937.    9949.    9966.    9991.   10010.   10025.
  PER Q=      6.0     10.1      5.8      4.9      4.7     46.8     21.7       .0
   AREA=     92.2     82.5     49.0     69.5     73.8    395.4    228.9       .2
    VEL=      9.4     17.7     16.9     10.2      9.2     17.0     13.7       .7

*SECNO  .460
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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
             QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9953.0   10259.0  TYPE=     1  TARGET=     306.000
      .46    19.98  1448.18  1439.94  1448.18  1448.49      .31     3.80     1.27  1436.70
   14400.     377.   13952.     71.     142.    3073.      45.     77.       7.   1443.30
      .06     2.66     4.54     1.57     .100     .100     .100     .000  1428.20  9953.43
  .003553     418.     445.     510.        4        8        0      .00   305.57 10259.00


FLOW DISTRIBUTION FOR SECNO=       .46          CWSEL=   1448.18

STA=    9953.    9978.   10241.   10259.
  PER Q=      2.6     96.9       .5
   AREA=    141.6   3072.5     45.4
    VEL=      2.7      4.5      1.6

*SECNO  .548

3301 HV CHANGED MORE THAN HVINS

34[illegible]ROACHMENT STATIONS=    9951.0   10137.0  TYPE=     1  TARGET=     186.000
      .55     9.87  1451.67  1449.84  1451.67  1453.41     1.74     3.77     1.14  1448.30
   14400.      48.   14268.     84.      13.    1341.      19.     102.       9.   1446.90
      .07     3.70    10.64     4.37     .100     .100     .100     .000  1441.80  9951.00
  .033251     516.     468.     268.        3       18        0      .00   185.71 10136.71


FLOW DISTRIBUTION FOR SECNO=       .55          CWSEL=   1451.67

STA=    9951.    9958.   10129.   10137.
  PER Q=       .3     99.1       .6
   AREA=     13.0   1340.9     19.1
    VEL=      3.7     10.6      4.4

*SECNO  .643

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9889.0   10081.0  TYPE=     1  TARGET=     192.000
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


      .64    12.86  1462.06  1457.36  1462.07  1463.02      .95     9.29      .32  1456.60
   14400.     131.   14045.     223.     39.    1776.      59.     121.      11.   1453.70
      .09    3.37     7.91     3.79     .100     .100     .100     .000  1449.20  9889.32
  .011769    440.     502.     520.        4       15        0      .00   191.58 10080.91


FLOW DISTRIBUTION FOR SECNO=       .64          CWSEL=   1462.06

STA=    9889.    9897.    9904.   10067.   10081.
  PER Q=       .1       .8     97.5      1.6
   AREA=      8.5     30.6   1776.0     59.0
    VEL=      1.9      3.8      7.9      3.8

*SECNO  .711

3470 ENCROACHMENT STATIONS=    9910.0   10148.0  TYPE=     1  TARGET=     238.000
      .71    12.66  1466.56  1462.55  1466.56  1467.56     1.00     4.50      .04  1464.10
   14400.       9.   12961.    1430.       5.    1558.     328.     136.      13.   1458.90
      .10    1.78     8.32     4.36     .100     .100     .100     .000  1453.90  9910.00
  .013289    335.     360.     370.        2       14        0      .00   237.62 10147.62


FLOW DISTRIBUTION FOR SECNO=       .71          CWSEL=   1466.56

STA=    9910.    9914.   10058.   10074.   10089.   10115.   10138.   10148.
  PER Q=       .1     90.0      3.7      2.0      2.6      1.4       .2
   AREA=      4.9   1558.2     96.5     64.2     93.8     61.9     11.8
    VEL=      1.8      8.3      5.5      4.5      4.0      3.3      1.9

*SECNO  .806

3470 ENCROACHMENT STATIONS=    9936.0   10111.0  TYPE=     1  TARGET=     175.000
      .81    14.76  1473.26  1468.62  1473.26  1474.55     1.29     6.76      .23  1465.90
   14400.     458.   13342.     600.     113.    1422.     138.     157.      16.   1465.10
      .12    4.07     9.38     4.34     .100     .100     .100     .000  1458.50  9936.00
  .013597    550.     504.     480.        2       15        0      .00   174.99 10110.99


FLOW DISTRIBUTION FOR SECNO=       .81          CWSEL=   1473.26

STA=    9936.    9966.   10077.   10111.
  PER Q=      3.2     92.7      4.2
   AREA=    112.6   1421.8    138.0
    VEL=      4.1      9.4      4.3
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  [illegible]  VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO  .950

3470 ENCROACHMENT STATIONS=    9852.0   10137.0  TYPE=     1  TARGET=     285.000
     .95    10.63  1479.03  1477.78  1479.03  1480.53     1.50     5.81      .17  1473.10
   14400.     380.   13920.      99.     124.    1396.      39.     185.      20.   1476.00
     .14     3.06     9.97     2.55     .070     .035     .075     .000  1468.40  9852.00
  .004913     740.     757.     800.        4       14        0      .00   285.00 10137.00


FLOW DISTRIBUTION FOR SECNO=       .95          CWSEL=   1479.03

STA=    9852.    9894.   10120.   10132.   10137.
  PER Q=      2.6     96.7       .6       .1
   AREA=    124.2   1396.0     32.8      6.2
    VEL=      3.1     10.0      2.7      1.5

*SECNO 1.010

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

34[illegible]ROACHMENT STATIONS=    9820.0   10042.0  TYPE=     1  TARGET=     222.000
     [illegible]01     8.43  1483.43  1483.43  1483.42  1486.11     2.68     2.20      .95  1481.10
   14400.      40.   14355.       5.      17.    1091.       3.     195.      22.   1481.00
     .15     2.39    13.16     1.43     .070     .035     .100     .000  1475.00  9820.00
  .010353     470.     318.     255.        0       15        0      .00   221.41 10041.41


FLOW DISTRIBUTION FOR SECNO=      1.01          CWSEL=   1483.43

STA=    9820.    9834.   10039.   10041.
  PER Q=       .3     99.7       .0
   AREA=     16.8   1091.1      3.4
    VEL=      2.4     13.2      1.4

*SECNO 1.110

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9956.0   10085.0  TYPE=     1  TARGET=     129.000
     1.11     9.76  1491.76  1491.76  1491.76  1495.88     4.12     4.88     1.15  1484.80
   14400.      75.   13707.     618.      22.     822.     150.     208.      24.   1484.70
      .16     3.44    16.67     4.13     .070     .035     .100     .000  1482.00  9956.00
  .008410     483.     524.     550.        0        8        0      .00   129.00 10085.00


FLOW DISTRIBUTION FOR SECNO=      1.11          CWSEL=   1491.76

STA=    9956.    9962.   10055.   10076.   10085.
  PER Q=       .5     95.2      3.9       .4
   AREA=     21.7    822.4    126.4     23.3
    VEL=      3.4     16.7      4.5      2.3

*SECNO 1.210

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

347[illegible]CROACHMENT STATIONS=    9923.0   10027.0  TYPE=     1  TARGET=     104.000
   [illegible]1    11.44  1498.24  1498.24  1498.22  1503.10     4.86     4.29      .60  1488.50
   14400.    1948.   12300.     151.     259.     650.      49.     219.      25.   1486.80
      .17     7.53    18.91     3.08     .070     .035     .100     .000  1486.80  9923.00
  .008172     500.     519.     522.        0        8        0      .00   104.00 10027.00


FLOW DISTRIBUTION FOR SECNO=      1.21          CWSEL=   1498.24

STA=    9923.    9936.    9943.    9959.   10019.   10027.
  PER Q=      1.3      3.3      8.9     85.4      1.1
   AREA=     46.8     61.9    150.2    650.4     49.2
    VEL=      4.2      7.6      8.5     18.9      3.1

*SECNO 1.300
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9969.0   10106.0  TYPE=     1  TARGET=     137.000
     1.30    13.71  1505.31  1505.31  1505.29  1510.21     4.90     3.78      .03  1491.60
   14400.     210.   10920.    3270.      48.     540.     644.     232.      26.   1492.70
      .17     4.37    20.20     5.08     .070     .035     .100     .000  1491.60  9969.13
  .007228     485.     491.     501.        0       11        0      .00   136.87 10106.00
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  T[illegible]  VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      1.30          CWSEL=   1505.31

STA=    9969.    9972.    9976.   10017.   10031.   10034.   10052.   10069.   10088.   10091.   10106.
  PER Q=      .1      1.4     75.8      7.3      1.4      5.4      3.8      3.6       .5       .6
   AREA=     6.3     41.9    540.5    163.2     34.7    148.9    118.7    120.8     18.4     38.8
    VEL=     2.0      4.7     20.2      6.5      5.8      5.3      4.7      4.3      3.9      2.3

*SECNO 1.384

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9853.0   10062.0  TYPE=     1  TARGET=     209.000
       BOUNDARY SECTION LINE 19/20, T6N; R1E APPX RM. 1.323
    1.38    14.25  1511.45  1508.85  1511.47  1513.38     1.93     1.98     1.19  1499.40
   14400.    3465.    9827.    1108.     803.     746.     259.     247.      28.  1497.20
     .19     4.31    13.17     4.28     .075     .035     .075     .000  1497.20  9853.50
  .003023     525.     442.     385.        3       15        0      .00   208.05 10061.55


FLOW DISTRIBUTION FOR SECNO=      1.38          CWSEL=   1511.45

STA=    9854.    9868.    9888.    9898.    9910.    9929.    9945.    9957.    9969.   10024.   10039.   10062.
  [illegible]      .3      2.3      1.8      2.1      3.7      4.1      4.5      5.1     68.2      6.0      1.7
  [illegible]=    28.0    103.4     67.5     79.9    134.2    131.9    128.1    130.5    746.1    168.4     90.4
    VEL=     1.7      3.3      3.9      3.8      4.0      4.5      5.1      5.6     13.2      5.2      2.6

*SECNO 1.477

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9948.0   10062.0  TYPE=     1  TARGET=     114.000
    1.48    11.68  1515.58  1515.58  1515.58  1520.37     4.79     2.24     2.29  1504.00
   14400.     830.    11317.    2254.     134.     581.     312.     263.      30.  1504.00
     .19     6.21    19.48     7.22     .075     .035     .075     .000  1503.90  9948.45
  .008039     440.     489.     500.        0       15        0      .00   113.27 10061.72


FLOW DISTRIBUTION FOR SECNO=      1.48          CWSEL=   1515.58

STA=    9948.    9953.    9969.   10020.   10032.   10052.   10061.   10062.
  PER Q=      .2      5.6     78.6      7.9      7.1       .6       .0
   AREA=     9.9    123.7    581.0    132.2    152.6     26.8       .3
    VEL=     2.4      6.5     19.5      8.7      6.7      3.5       .7
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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
Q         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 1.574

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9905.0   10060.0  TYPE=     1  TARGET=     155.000
     1.57    10.97  1521.97  1520.86  1521.97  1524.99     3.02     3.90      .71  1512.40
   14400.    2011.   11757.     631.     329.     775.     116.     276.      31.   1511.00
      .20     6.11    15.16     5.43     .075     .040     .070     .000  1511.00  9905.33
  .007299     460.     512.     540.        3       11        0      .00   154.48 10059.82


FLOW DISTRIBUTION FOR SECNO=      1.57          CWSEL=   1521.97

STA=    9905.    9933.    9936.    9946.    9965.   10039.   10059.   10060.
  PER Q=      1.3       .7      4.0      8.0     81.6      4.4       .0
   AREA=     63.1     22.2     83.7    160.5    775.3    115.7       .5
    VEL=      2.9      4.3      7.0      7.2     15.2      5.5       .9

*SECNO 1.658

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9952.0   10099.0  TYPE=     1  TARGET=     147.000
     1.66    10.14  1525.74  1525.59  1525.74  1529.31     3.57     3.88      .44  1515.60
   14400.     273.   12679.    1448.      48.     793.     220.     287.      33.   1517.40
      .21     5.64    15.99     6.58     .075     .040     .070     .000  1515.60  9952.26
  .010580     438.     445.     452.        3       11        0      .00   146.63 10098.89


FLOW DISTRIBUTION FOR SECNO=      1.66          CWSEL=   1525.74

STA=    9952.    9954.    9957.    9962.   10054.   10075.   10095.   10099.
  PER Q=       .0       .3      1.6     88.0      7.0      3.0       .1
   AREA=      1.5     11.2     35.7    793.1    135.4     78.3      6.3
    VEL=      1.5      3.5      6.5     16.0      7.4      5.4      2.5

*SECNO 1.750

3301 HV CHANGED MORE THAN HVINS
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                DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
                QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9866.0   10074.0  TYPE=     1  TARGET=     208.000
     1.75     9.24  1532.74  1531.65  1532.74  1534.92     2.19     5.06      .55  1527.60
   14400.     4501.    9112.     787.     602.     658.     131.     301.      35.   1526.60
      .23     7.48    13.85     5.99     .075     .040     .070     .000  1523.50  9866.26
  .010060     540.     487.     425.        2       15        0      .00   207.67 10073.93


FLOW DISTRIBUTION FOR SECNO=      1.75          CWSEL=   1532.74

STA=    9866.    9877.    9890.    9903.    9911.    9927.    9941.    9953.   10045.   10054.   10074.
  PER Q=      .9      4.7      5.7      4.0      8.5      4.9      2.5     63.3      3.2      2.3
   AREA=    35.0     92.3    103.7     68.6    143.1     99.3     60.2    658.1     62.2     69.2
    VEL=     3.9      7.3      8.0      8.4      8.6      7.1      6.0     13.8      7.4      4.7

*SECNO 1.831

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

347[illegible]CROACHMENT STATIONS=    9945.0   10068.0  TYPE=     1  TARGET=     123.000
     [illegible]3    12.30  1542.00  1542.00  1541.96  1546.41     4.41     4.62     1.78  1531.30
   14400.     1573.   11372.    1455.     221.     613.     179.     313.      37.   1532.10
      .23     7.12    18.56     8.11     .080     .045     .070     .000  1529.70  9945.00
  .011760     450.     428.     340.        0       11        0      .00   123.00 10068.00


FLOW DISTRIBUTION FOR SECNO=      1.83          CWSEL=   1542.00

STA=    9945.    9961.    9970.    9987.   10039.   10058.   10068.
  PER Q=      .6      1.9      8.5     79.0      9.2      .9
   AREA=    29.3     46.4    145.3    612.7    149.6     29.9
    VEL=     2.9      5.8      8.4     18.6      8.9      4.3

*SECNO 1.926

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9927.0   10038.0  TYPE=     1  TARGET=     111.000
       M-13 TRIBUTARY APPX RM 1.852
    1.93    16.01  1551.31  1551.31  1551.30  1556.29     4.98     5.49      .46  1537.40
   14400.    2065.   11883.     452.     319.     610.      68.     325.      38.   1540.50
     .24     6.48    19.49     6.65     .080     .045     .070     .000  1535.30  9927.00
  .010210     515.     500.     496.        0       11        0      .00   110.41 10037.41


FLOW DISTRIBUTION FOR SECNO=      1.93          CWSEL=   1551.31

STA=    9927.    9930.    9931.    9942.    9952.    9965.    9974.    9984.   10026.   10034.   10037.
  PER Q=      .0       .0       .9      1.5      2.4      3.2      6.3     82.5      2.9       .2
   AREA=     2.1      2.2     32.8     44.3     62.4     67.7    107.1    609.6     58.1     10.0
    VEL=     1.4      2.4      4.0      4.9      5.4      6.7      8.5     19.5      7.3      2.9

*SECNO 2.014

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9925.0   10032.0  TYPE=     1  TARGET=     107.000
    2.01    13.93  1557.33  1556.73  1557.33  1561.45     4.13     4.82      .34  1546.60
      .     2896.    9392.    2111.     314.     495.     220.     335.      39.   1544.20
     25     9.23    18.98     9.58     .070     .045     .070     .000  1543.40  9927.30
  .011216     385.     462.     485.        4       15        0      .00   104.70 10032.00


FLOW DISTRIBUTION FOR SECNO=      2.01          CWSEL=   1557.33

STA=    9927.    9932.    9948.    9954.    9967.   10006.   10018.   10027.   10032.
  PER Q=      .4      6.1      3.7     10.0     65.2     10.1      4.1       .4
   AREA=    15.1    106.9     55.4    136.4    494.8    133.6     69.2     17.4
    VEL=     3.5      8.2      9.5     10.5     19.0     10.9      8.5      3.7

*SECNO 2.114

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9932.0   10078.0  TYPE=     1  TARGET=     146.000
    2.11    12.50  1564.10  1561.96  1564.11  1566.39     2.29     4.20      .73  1552.80
   14400.    1569.   11627.    1205.     251.     882.     208.     349.      41.   1554.50
     .26     6.25    13.18     5.80     .070     .045     .070     .000  1551.60  9932.00
  .005988     540.     529.     485.        3       15        0      .00   146.00 10078.00
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[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.11 CWSEL= 1564.10

STA=	9932.	9936.	9948.	9958.	9969.	10044.	10059.	10069.	10078.
PER Q=	.1	2.0	3.0	5.8	80.7	5.6	2.3	.5	
AREA=	7.4	60.5	70.5	112.3	881.9	121.4	61.8	24.4	
VEL=	2.0	4.7	6.2	7.4	13.2	6.6	5.4	2.9	

*SECNO 2.209

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9888.0 10035.0 TYPE= 1 TARGET= 147.000

2.21	10.74	1567.94	1567.72	1567.94	1571.50	3.56	4.09	1.02	1558.60
14400.	2095.	12044.	261.	295.	740.	47.	363.	42.	1557.70
.27	7.10	16.26	5.59	.070	.045	.065	.000	1557.20	9888.00
.011666	510.	503.	490.	3	15	0	.00	146.83	10034.83

FLOW DISTRIBUTION FOR SECNO= 2.21 CWSEL= 1567.94

STA=	9888.	9891.	9896.	9912.	9926.	9937.	9944.	9950.	10026.	10035.
PER Q=	.0	.2	2.0	2.9	3.1	2.9	3.4	83.6	1.8	
[illegible]	1.2	9.8	54.0	66.6	61.5	51.0	51.0	740.5	46.8	
[illegible]=	1.3	3.3	5.2	6.3	7.2	8.3	9.7	16.3	5.6	

*SECNO 2.287

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9937.0 10089.0 TYPE= 1 TARGET= 152.000

2.29	11.04	1573.14	1572.40	1573.13	1576.09	2.95	4.35	.24	1564.60
14400.	514.	12042.	1844.	87.	815.	264.	374.	44.	1565.50
.28	5.93	14.78	6.98	.070	.045	.065	.000	1562.10	9937.00
.009435	372.	413.	500.	2	8	0	.00	151.60	10088.60

FLOW DISTRIBUTION FOR SECNO= 2.29 CWSEL= 1573.14

STA=	9937.	9945.	9957.	10039.	10051.	10073.	10088.	10089.
PER Q=	.3	3.2	83.6	4.3	6.8	1.6	.0	
AREA=	16.0	70.6	814.8	79.6	134.9	49.5	.2	
VEL=	3.0	6.6	14.8	7.9	7.3	4.8	.8	

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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME    VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 2.391

3470 ENCROACHMENT STATIONS=    9901.0   10144.0  TYPE=     1  TARGET=     243.000
       BOUNDARY SECTION 19/24, T6N; R1E/R1W APPX RM. 2.465
    2.39    10.48  1579.28  1579.18  1579.31  1581.92     2.64     5.71      .13  1575.00
  14400.    1363.    9779.    3257.     252.     646.     455.     389.      46.   1572.30
     .29     5.40    15.13     7.16     .070     .045     .070     .000  1568.80  9901.44
 .012170     550.     545.     485.        3       11        0      .00   242.56 10144.00


FLOW DISTRIBUTION FOR SECNO=      2.39          CWSEL=   1579.28

STA=    9901.    9945.    9970.    9975.   10050.   10068.   10092.   10107.   10132.   10144.
  PER Q=      4.9      3.9       .7     67.9      7.3      8.1      3.6      3.1       .5
   AREA=    138.8     95.2     18.3    646.2    123.9    149.1     76.3     83.9     21.5
    VEL=      5.1      5.8      5.5     15.1      8.5      7.8      6.8      5.4      3.5

*SECNO 2.476

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
37[illegible]TICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9890.0   10052.0  TYPE=     1  TARGET=     162.000
    2.48    11.81  1586.91  1586.91  1586.91  1590.44     3.52     5.33      .71  1580.80
  14400.    3333.   10418.     649.     457.     607.      99.     402.      48.   1575.90
     .30     7.29    17.15     6.56     .070     .045     .070     .000  1575.10  9890.17
 .011614     444.     449.     448.        0        8        0      .00   161.49 10051.66


FLOW DISTRIBUTION FOR SECNO=      2.48          CWSEL=   1586.91

STA=    9890.    9892.    9905.    9923.    9936.    9958.    9974.   10031.   10047.   10052.
  PER Q=       .0      1.5      5.2      4.6      7.1      4.7     72.3      4.5       .0
   AREA=      1.1     44.4    101.4     82.7    134.6     93.1    607.5     97.6      1.3
    VEL=      1.4      4.9      7.4      7.9      7.6      7.3     17.1      6.6      1.0

*SECNO 2.577

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
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S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
[illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9971.0   10080.0  TYPE=     1  TARGET=     109.000
     2.58    11.35  1593.45  1593.45  1593.40  1597.89     4.43     6.46      .73  1583.30
   14400.     567.   13661.     172.      87.     790.      37.     415.      50.  1587.80
      .31     6.49    17.29     4.61     .070     .045     .070     .000  1582.10  9971.00
  .012928     500.     532.     536.        0        8        0      .00   109.00 10080.00


FLOW DISTRIBUTION FOR SECNO=      2.58          CWSEL=   1593.45

STA=    9971.    9988.   10067.   10080.
  PER Q=      3.9     94.9      1.2
   AREA=     87.3    790.1     37.4
    VEL=      6.5     17.3      4.6

*SECNO 2.679

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9884.0   10129.0  TYPE=     1  TARGET=     245.000
    [illegible].68    11.30  1602.80  1599.78  1602.84  1604.08     1.28     4.93     1.26  1595.40
    [illegible].     5450.    7728.    1221.     852.     701.     278.     432.      52.  1592.50
    [illegible].33     6.40    11.02     4.39     .085     .050     .075     .000  1591.50  9884.00
  .006784     564.     537.     488.        2       15        0      .00   244.91 10128.91


FLOW DISTRIBUTION FOR SECNO=      2.68          CWSEL=   1602.80

STA=    9884.    9896.    9909.    9925.    9932.    9946.    9963.    9975.   10048.   10072.   10129.
  PER Q=      4.1      5.7      6.4      3.1      7.6      7.3      3.6     53.7      6.2      2.2
   AREA=    103.3    126.4    144.2     69.5    154.6    162.2     91.5    701.2    159.5    118.7
    VEL=      5.8      6.5      6.4      6.5      7.1      6.5      5.6     11.0      5.6      2.7

*SECNO 2.764

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9911.0   10068.0  TYPE=     1  TARGET=     157.000
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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
             QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE      XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


    2.76      8.74  1607.74  1607.74  1607.74  1611.14     3.40     5.02     1.70  1599.60
   14200.     3562.    8044.    2594.     354.     461.     241.     447.      54.  1599.30
     .33     10.08    17.43    10.77     .070     .050     .070     .000  1599.00  9911.00
  .020063     532.     451.     360.        0       15        0      .00   156.52 10067.52


FLOW DISTRIBUTION FOR SECNO=      2.76          CWSEL=   1607.74

STA=    9911.    9921.    9936.    9948.    9958.    9968.    9976.   10030.   10043.   10061.   10068.
  PER Q=      .3      3.6      6.5      5.4      5.3      4.1     56.6      8.6      8.9       .7
   AREA=    11.9     64.5     84.8     69.0     70.4     52.9    461.5    102.5    118.0     20.3
    VEL=     3.2      8.0     10.9     11.0     10.6     10.9     17.4     11.9     10.7      5.2

*SECNO 2.882
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9899.0   10097.0  TYPE=     1  TARGET=     198.000
       M-12 TRIBUTARY APPX RM. 2.724
    2.88     11.10  1618.00  1618.00  1618.00  1621.50     3.50     8.14      .09  1609.40
   14200.      940.   11327.    1933.     196.     686.     283.     463.      56.  1610.50
     .35      4.79    16.52     6.84     .070     .040     .070     .000  1606.90  9911.44
  [illegible]026      624.     627.     644.        0       11        0      .00   185.15 10096.59


FLOW DISTRIBUTION FOR SECNO=      2.88          CWSEL=   1618.00

STA=    9911.    9944.    9965.    9971.    9980.   10047.   10059.   10075.   10085.   10097.
  PER Q=      1.0      1.8      1.0      2.8     79.8      4.7      5.9      2.5       .6
   AREA=    49.2     62.6     27.0     57.4    685.5     87.7    113.4     56.5     24.9
    VEL=     2.8      4.1      5.2      7.0     16.5      7.6      7.4      6.3      3.2

*SECNO 2.963
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9909.0   10065.0  TYPE=     1  TARGET=     156.000
    2.96     10.96  1624.76  1624.76  1624.77  1628.58     3.82     3.85      .25  1617.40
   14200.      530.   12912.     758.     113.     789.     145.     474.      58.  1617.20
     .35      4.68    16.37     5.24     .070     .040     .070     .000  1613.80  9909.00
  .009107     420.     425.     420.        0        5        0      .00   156.00 10065.00
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S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 2.96 CWSEL= 1624.76

STA=	9909.	9927.	9941.	9951.	10030.	10064.	10065.
PER Q=	.3	1.2	2.3	90.9	5.3	.0	
AREA=	19.0	40.3	54.0	788.6	144.0	.7	
VEL=	2.1	4.1	6.0	16.4	5.3	1.1	

*SECNO 3.058

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9930.0 10085.0 TYPE= 1 TARGET= 155.000

3.06	9.91	1631.21	1630.69	1631.19	1634.29	3.09	5.42	.29	1621.60
14200.	2059.	7586.	4556.	253.	439.	476.	487.	60.	1621.50
.36	8.13	17.29	9.58	.070	.045	.070	.000	1621.30	9930.00
.013084	520.	503.	480.	3	15	0	.00	155.00	10085.00

FLOW DISTRIBUTION FOR SECNO= 3.06 CWSEL= 1631.21

STA=	9930.	9943.	9957.	9969.	9975.	10020.	10031.	10046.	10058.	10072.	10085.
PER Q=	1.2	4.7	5.0	3.6	53.4	8.1	9.8	7.1	5.8	1.3	
[illegible]	36.8	82.9	80.7	52.8	438.7	107.4	133.9	100.9	94.7	38.7	
VEL=	4.6	8.0	8.8	9.7	17.3	10.7	10.4	10.0	8.7	4.7	

*SECNO 3.127
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9940.0 10130.0 TYPE= 1 TARGET= 190.000

3.13	10.09	1637.69	1637.69	1637.69	1640.91	3.23	4.37	.11	1628.30
14200.	1204.	10873.	2123.	182.	676.	329.	496.	61.	1628.20
.37	6.61	16.08	6.45	.070	.045	.070	.000	1627.60	9940.00
.011177	368.	363.	356.	0	5	0	.00	190.00	10130.00

FLOW DISTRIBUTION FOR SECNO= 3.13 CWSEL= 1637.69

STA=	9940.	9951.	9975.	9985.	10054.	10061.	10076.	10091.	10110.	10120.	10130.
PER Q=	.2	3.5	4.8	76.6	3.5	4.0	3.2	3.3	.9	.2	
AREA=	10.5	91.0	80.7	676.2	59.6	81.0	70.4	80.3	28.0	10.0	
VEL=	2.1	5.5	8.5	16.1	8.2	7.1	6.4	5.8	4.5	2.2	

S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 3.219

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9828.0 10081.0 TYPE= 1 TARGET= 253.000

3.22	11.56	1643.96	1641.56	1643.96	1645.21	1.25	3.51	.79	1634.70
14200.	3205.	9893.	1102.	667.	967.	194.	513.	64.	1634.70
.39	4.80	10.23	5.67	.070	.050	.070	.000	1632.40	9828.00
.005112	468.	482.	504.	3	11	0	.00	253.00	10081.00

FLOW DISTRIBUTION FOR SECNO= 3.22 CWSEL= 1643.96

STA=	9828.	9838.	9850.	9870.	9885.	9905.	9929.	9949.	9959.	10051.	10064.	10076.	10081.
PER Q=	.2	.8	1.7	1.9	3.7	5.9	5.1	3.4	69.7	5.5	2.2	.1	
AREA=	13.9	35.3	69.5	66.1	110.7	157.0	132.9	81.7	966.8	118.7	68.6	7.1	
VEL=	1.8	3.1	3.5	4.0	4.8	5.3	5.4	6.0	10.2	6.6	4.5	1.7	

*SECNO 3.303

3301 HV CHANGED MORE THAN HVINS

71[illegible]IMUM SPECIFIC ENERGY
372[illegible]ITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9898.0 10160.0 TYPE= 1 TARGET= 262.000
M-11 TRIBUTARY APPX RM. 3.359

3.30	9.40	1647.70	1647.70	1647.70	1650.35	2.65	3.71	1.12	1640.40
14200.	1909.	7290.	5001.	308.	435.	646.	530.	66.	1640.70
.40	6.21	16.76	7.74	.075	.045	.080	.000	1638.30	9898.40
.015503	448.	445.	464.	0	15	0	.00	261.60	10160.00

FLOW DISTRIBUTION FOR SECNO= 3.30 CWSEL= 1647.70

STA=	9898.	9948.	9979.	9990.	10042.	10059.	10088.	10103.	10115.	10123.	10152.	10160.
PER Q=	3.6	6.0	3.9	51.3	7.1	11.3	5.2	5.0	3.4	3.2	.1	
AREA=	110.0	130.7	67.0	434.9	117.3	195.5	94.9	82.4	59.1	92.3	4.7	
VEL=	4.7	6.5	8.2	16.8	8.6	8.2	7.8	8.7	8.1	4.9	1.6	

*SECNO 3.400

	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9947.0 10115.0 TYPE= 1 TARGET= 168.000

3.40	10.81	1657.01	1657.01	1657.20	1660.87	3.86	6.14	.97	1647.30
14200.	1325.	11440.	1435.	168.	663.	266.	544.	69.	1647.50
.41	7.89	17.26	5.39	.075	.040	.075	.000	1646.20	9947.00
.009572	500.	510.	520.	0	11	0	.00	168.00	10115.00

FLOW DISTRIBUTION FOR SECNO= 3.40 CWSEL= 1657.01

STA=	9947.	9950.	9956.	9968.	10032.	10081.	10097.	10114.	10115.
PER Q=	.2	2.3	6.9	80.6	10.0	.1	.1	.0	
AREA=	10.5	43.8	113.6	662.9	250.6	8.1	7.1	.4	
VEL=	2.4	7.4	8.6	17.3	5.7	1.2	1.1	.8	

*SECNO 3.473

33[illegible] CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9932.0 10117.0 TYPE= 1 TARGET= 185.000
NEW LAKE PLEASANT RD. APPX RM. 3.505

3.47	12.09	1662.39	1658.79	1662.23	1663.71	1.32	1.82	1.02	1653.40
14200.	584.	12861.	755.	160.	1339.	193.	557.	71.	1653.10
.42	3.64	9.61	3.91	.070	.040	.070	.000	1650.30	9932.00
.002759	396.	388.	392.	3	15	0	.00	185.00	10117.00

FLOW DISTRIBUTION FOR SECNO= 3.47 CWSEL= 1662.39

STA=	9932.	9944.	9962.	10085.	10095.	10110.	10117.
PER Q=	.5	3.6	90.6	2.9	2.3	.2	
AREA=	32.7	127.6	1338.9	88.5	91.1	13.4	
VEL=	2.0	4.1	9.6	4.6	3.5	1.6	

*SECNO 3.492

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SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
TW       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9925.0   10055.0  TYPE=     1  TARGET=     130.000
     3.49    17.34  1670.44  1670.44  1670.37  1674.98     4.54      .49     2.58  1666.10
   14200.     883.   12770.     547.     179.     711.     111.     560.      71.   1666.10
      .42     4.94    17.96     4.92     .070     .040     .070     .000  1653.10  9925.45
  .010026      72.     102.     140.        0       11        0      .00   128.81 10054.26


FLOW DISTRIBUTION FOR SECNO=      3.49          CWSEL=   1670.44

STA=    9925.    9940.    9980.   10021.   10045.   10054.
  PER Q=       .5      5.7     89.9      3.5       .3
   AREA=     25.0    153.6    710.9     95.3     15.9
    VEL=      3.0      5.3     18.0      5.3      2.9


SPECIAL BRIDGE

522  HSTREAM ELEV IS   1666.13 ,NOT   1670.44 HYDRAULIC JUMP OCCURS DOWNSTREAM (IF LOW FLOW CONTROLS)

SB  XK        XKOR      COFQ      RDLEN     BWC       BWP       BAREA     SS        ELCHU     ELCHD
     1.25      1.56      2.70       .00     41.00      2.00    507.00       .00   1655.10   1653.10

*SECNO 3.520

3301 HV CHANGED MORE THAN HVINS

PRESSURE AND WEIR FLOW


 EGPRS      EGLWC      H3       QWEIR      QPR       BAREA   TRAPEZOID      ELLC     ELTRD
                                                              AREA
   1689.44   1679.71       .00     1177.    13059.      507.      507.     1668.10   1684.60


3470 ENCROACHMENT STATIONS=    9765.0   10135.0  TYPE=     1  TARGET=     370.000
     3.52    31.33  1686.43      .00  1686.41  1686.51      .09    11.53      .00  1655.10
   14200.    4579.    4482.    5140.    3352.    1284.    2988.     574.      72.   1655.10
      .44     1.37     3.49     1.72     .070     .040     .070     .000  1655.10  9765.00
  .000089     146.     146.     146.        2        0        3      .00   370.00 10135.00
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   C[illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      3.52          CWSEL=   1686.43

STA=    9765.    9800.    9900.    9980.   10021.   10100.   10135.
  PER Q=      1.0      9.3     22.0     31.6     30.7      5.5
   AREA=    221.5   1232.5   1898.1   1284.3   2303.5    684.8
    VEL=       .6      1.1      1.6      3.5      1.9      1.1

*SECNO 3.537

3470 ENCROACHMENT STATIONS=    9865.0   10140.0  TYPE=     1  TARGET=     275.000
     3.54    30.01  1686.41  1667.94  1686.40  1686.62      .21      .01      .10  1656.40
   14200.    3272.    6617.    4311.    1765.    1351.    1960.     588.      72.   1657.70
      .45     1.85     4.90     2.20     .080     .045     .080     .000  1656.40  9865.00
  .000244     102.      92.      82.        2       18        0      .00   275.00 10140.00


FLOW DISTRIBUTION FOR SECNO=      3.54          CWSEL=   1686.41

STA=    9865.    9900.    9930.    9954.    9974.   10020.   10035.   10049.   10064.   10083.   10115.   10140.
  PER Q=      4.2      4.9      6.0      8.0     46.6      8.2      7.4      6.0      4.9      3.5       .3
   AREA=    424.2    414.1    428.5    497.8   1351.0    428.5    390.0    365.2    360.0    346.0     69.8
    VEL=      1.4      1.7      2.0      2.3      4.9      2.7      2.7      2.3      2.0      1.4       .6

*S[illegible].569

3470 ENCROACHMENT STATIONS=    9840.0   10145.0  TYPE=     1  TARGET=     305.000
     3.57    26.87  1686.57  1668.21  1686.56  1686.69      .12      .03      .04  1662.00
   14200.    2553.    8367.    3280.    1681.    2487.    2128.     610.      74.   1661.80
      .46     1.52     3.36     1.54     .080     .045     .080     .000  1659.70  9840.00
  .000134     196.     167.     144.        2       14        0      .00   305.00 10145.00


FLOW DISTRIBUTION FOR SECNO=      3.57          CWSEL=   1686.57

STA=    9840.    9881.    9905.    9921.    9937.   10032.   10052.   10076.   10092.   10122.   10145.
  PER Q=      3.1      5.1      4.8      5.0     58.9      6.2      6.0      3.6      5.5      1.8
   AREA=    434.5    474.9    377.2    394.0   2487.3    490.3    514.4    325.2    536.2    261.6
    VEL=      1.0      1.5      1.8      1.8      3.4      1.8      1.6      1.6      1.5      1.0

*SECNO 3.673

3470 ENCROACHMENT STATIONS=    9591.0   10325.0  TYPE=     1  TARGET=     734.000
     3.67    19.15  1686.75  1674.03  1686.71  1686.78      .04      .06      .03  1672.90
   13900.    4221.    5139.    4540.    4286.    2607.    3458.     714.      80.   1671.50
      .57      .98     1.97     1.31     .080     .050     .070     .000  1667.60  9591.00
  .000100     580.     550.     512.        2       17        0      .00   734.00 10325.00
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   [illegible]     QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME            VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE           XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=      3.67          CWSEL=   1686.75

STA=    9591.    9656.    9704.    9739.    9790.    9847.    9883.    9930.    9949.   10100.   10129.   10153.   10180.
  PER Q=      3.2      4.0      3.3      4.2      4.8      3.3      5.4      2.1     37.0      4.4      3.6      3.3
   AREA=    559.7    580.8    454.6    604.9    685.3    450.0    680.8    269.8   2606.8    458.1    379.7    379.5
    VEL=       .8      1.0      1.0      1.0      1.0      1.0      1.1      1.1      2.0      1.3      1.3      1.2
STA=   10180.   10204.   10231.   10256.   10283.   10320.   10325.
  PER Q=      3.5      5.0      4.7      4.3      3.8       .1
   AREA=    370.3    478.5    449.0    440.1    467.3     35.1
    VEL=      1.3      1.4      1.4      1.4      1.1       .4

*SECNO 3.764

3470 ENCROACHMENT STATIONS=    9825.0   10360.0  TYPE=     1  TARGET=     535.000
        BOUNDARY SEC 23/24, T6N; R1W APPX RM. 3.699
        M-10 TRIBUTARY APPX RM. 3.714
     3.76    10.43  1686.83  1683.08  1686.80  1687.16      .33      .14      .23  1681.30
   13900.    1284.    8524.    4092.     564.    1589.    1275.     802.      88.  1680.20
      .60     2.28     5.36     3.21     .080     .050     .070     .000  1676.40  9825.00
  .001958     464.     477.     708.        3       22        0      .00   535.00 10360.00


FLO[illegible]STRIBUTION FOR SECNO=      3.76          CWSEL=   1686.83

STA=    9825.    9913.    9952.    9960.   10151.   10171.   10193.   10216.   10245.   10278.   10303.   10336.   10360.
  PER Q=      3.8      4.7       .8     61.3      3.4      4.6      4.6      3.2      4.0      3.4      4.4      1.8
   AREA=    283.1    237.3     43.7   1588.9    138.7    171.7    176.5    153.4    188.0    151.5    196.4     98.3
    VEL=      1.9      2.7      2.6      5.4      3.4      3.8      3.7      2.9      3.0      3.1      3.1      2.5

*SECNO 3.862

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9952.0   10321.0  TYPE=     1  TARGET=     369.000
     3.86     7.89  1691.19  1691.19  1691.15  1693.07     1.88     2.39     1.24  1687.90
   13900.      30.    6953.    6917.       8.     508.     935.     830.      93.  1687.80
      .62     3.50    13.68     7.39     .080     .055     .070     .000  1683.30  9952.56
  .022970     448.     518.     504.        0       19        0      .00   368.44 10321.00
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S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 3.86 CWSEL= 1691.19

STA=	9953.	9958.	10040.	10064.	10085.	10101.	10118.	10134.	10150.	10172.	10216.	10263.	10308.
PER Q=	.2	50.0	4.3	6.3	4.0	4.3	4.6	3.7	3.1	3.8	7.0	5.6	
AREA=	8.5	508.2	81.4	97.9	67.1	71.3	72.8	62.7	65.1	96.4	143.6	120.1	
VEL=	3.5	13.7	7.3	8.9	8.3	8.4	8.8	8.1	6.5	5.5	6.8	6.5	

STA=	10308.	10321.
PER Q=	3.2	
AREA=	56.9	
VEL=	7.9	

*SECNO 3.946

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9798.0 10186.0 TYPE= 1 TARGET= 388.000

3.95	7.58	1699.48	1698.11	1699.41	1700.44	.96	7.00	.37	1694.90
13900.	3318.	10360.	222.	549.	1228.	51.	848.	97.	1694.30
.63	6.04	8.43	4.34	.070	.055	.070	.000	1691.90	9798.07
.010475	448.	447.	532.	3	15	0	.00	387.93	10186.00

FLO[illegible]TRIBUTION FOR SECNO= 3.95 CWSEL= 1699.48

STA=	9798.	9826.	9881.	9892.	9907.	9923.	9933.	10163.	10186.
PER Q=	4.0	4.4	3.4	5.8	4.3	2.0	74.5	1.6	
AREA=	102.6	142.0	65.5	104.1	88.4	46.3	1228.5	51.1	
VEL=	5.4	4.3	7.2	7.8	6.7	6.1	8.4	4.3	

*SECNO 4.049

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9680.0 10032.0 TYPE= 1 TARGET= 352.000

4.05	7.91	1707.01	1706.85	1707.06	1708.93	1.92	7.73	.77	1703.30
13900.	4594.	8974.	332.	679.	695.	57.	867.	102.	1700.40
.65	6.77	12.92	5.81	.080	.055	.080	.000	1699.10	9680.00
.021718	500.	542.	524.	2	8	0	.00	351.30	10031.30

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TI[illegible]  VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      4.05          CWSEL=   1707.01

STA=    9680.    9722.    9794.    9806.    9815.    9836.    9852.    9885.    9896.   10014.   10031.
  PER Q=     3.2      5.7      4.1      3.4      7.0      3.6      4.6      1.4     64.6      2.4
   AREA=    94.2    139.9     67.7     52.6    113.6     70.4    106.8     33.9    694.6     57.2
    VEL=     4.7      5.6      8.4      8.9      8.5      7.2      6.1      5.9     12.9      5.8

*SECNO 4.149

3470 ENCROACHMENT STATIONS=    9805.0   10065.0  TYPE=     1  TARGET=     260.000
     4.15     9.53  1715.83  1715.38  1715.80  1718.09     2.26     8.88      .27  1709.10
   13900.    5655.    7893.     352.     810.     531.      96.     885.     106.   1711.40
      .66     6.98    14.88     3.66     .080     .045     .085     .000  1706.30  9805.23
  .012959     552.     529.     560.        3        8        0      .00   259.77 10065.00


FLOW DISTRIBUTION FOR SECNO=      4.15          CWSEL=   1715.83

STA=    9805.    9844.    9857.    9879.    9891.    9912.    9950.   10017.   10065.
  PER Q=     5.7      5.6      8.0      3.8      5.6     11.9     56.8      2.5
   AREA=   140.2     96.6    147.1     75.3    117.1    233.4    530.5     96.3
    VEL=     5.7      8.1      7.6      7.0      6.6      7.1     14.9      3.7

*S[illegible].254
718[illegible]NIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9938.0   10266.0  TYPE=     1  TARGET=     328.000
     4.25     7.83  1723.33  1723.33  1723.34  1725.59     2.26     7.44      .00  1716.90
   13900.     159.   11389.    2352.      28.     866.     513.     902.     109.   1718.90
      .67     5.74    13.15     4.59     .075     .045     .085     .000  1715.50  9938.00
  .014826     544.     550.     432.        0       15        0      .00   328.00 10266.00


FLOW DISTRIBUTION FOR SECNO=      4.25          CWSEL=   1723.33

STA=    9938.    9945.   10091.   10127.   10210.   10247.   10266.
  PER Q=     1.1     81.9      4.6      4.2      5.6      2.5
   AREA=    27.7    866.1    129.0    168.7    144.9     70.1
    VEL=     5.7     13.1      5.0      3.4      5.3      5.0

*SECNO 4.344
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9924.0   10176.0  TYPE=     1  TARGET=     252.000
     4.34     8.70  1730.10  1729.99  1730.01  1732.69     2.59     6.84      .27  1724.10
   13900.     2929.    9102.    1869.     353.     603.     382.     917.     112.   1725.10
      .68     8.29    15.10     4.89     .075     .040     .085     .000  1721.40  9924.83
  .013700     476.     479.     488.        2        8        0      .00   251.17 10176.00


FLOW DISTRIBUTION FOR SECNO=      4.34          CWSEL=   1730.10

STA=    9925.    9947.    9963.    9978.   10071.   10093.   10133.   10176.
  PER Q=      8.8      7.0      5.3     65.5      4.5      4.6      4.3
   AREA=    146.0    113.0     94.2    602.9    106.3    136.5    139.6
    VEL=      8.3      8.6      7.8     15.1      5.9      4.7      4.3

*SECNO 4.437

3470 ENCROACHMENT STATIONS=    9898.0   10083.0  TYPE=     1  TARGET=     185.000
     4.44     8.43  1737.83  1737.71  1737.84  1740.81     2.98     7.81      .31  1732.30
   13900.    3051.    8645.    2204.     332.     533.     281.     931.     115.   1731.30
      .69     9.18    16.22     7.85     .075     .045     .085     .000  1729.40  9898.00
  .018744     504.     488.     480.        2        8        0      .00   184.77 10082.77


FLOW DISTRIBUTION FOR SECNO=      4.44          CWSEL=   1737.83

STA=    9898.    9913.    9924.    9940.    9954.   10032.   10045.   10056.   10063.   10073.   10083.
  PER Q=      2.1      6.0      8.4      5.4     62.2      5.5      4.4      2.5      2.7       .7
   AREA=     50.9     81.8    116.3     83.4    533.0     90.2     71.2     42.7     52.8     23.8
    VEL=      5.8     10.1     10.0      9.1     16.2      8.5      8.6      8.1      7.2      3.9

*SECNO 4.540
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9950.0   10190.0  TYPE=     1  TARGET=     240.000
     4.54    10.22  1748.12  1748.12  1748.11  1751.06     2.94     8.01      .02  1738.60
   13900.     712.   10207.    2981.     106.     653.     492.     947.     118.   1739.50
      .71     6.74    15.62     6.06     .070     .045     .075     .000  1737.90  9950.00
  .011607     472.     544.     632.        0       11        0      .00   238.89 10188.89
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S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 4.54 CWSEL= 1748.12

STA=	9950.	9973.	10044.	10054.	10065.	10075.	10095.	10136.	10189.
PER Q=	5.1	73.4	4.9	3.6	3.4	4.9	3.8	.9	
AREA=	105.7	653.3	82.1	66.5	64.8	104.9	121.8	51.9	
VEL=	6.7	15.6	8.2	7.4	7.4	6.4	4.4	2.4	

*SECNO 4.634

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9841.0 10130.0 TYPE= 1 TARGET= 289.000

4.63	7.90	1754.60	1754.31	1754.61	1756.76	2.17	5.39	.31	1752.20
13900.	20.	13650.	230.	9.	1146.	79.	961.	121.	1751.40
.72	2.34	11.91	2.92	.070	.040	.065	.000	1746.70	9841.21
.010240	496.	497.	480.	3	15	0	.00	288.79	10130.00

FLOW DISTRIBUTION FOR SECNO= 4.63 CWSEL= 1754.60

STA=	9841.	9848.	10050.	10062.	10081.	10092.	10105.	10117.	10128.	10130.
P[illegible]	.1	98.2	.9	.5	.1	.1	.1	.0	.0	
[illegible]	8.6	1145.9	29.9	24.8	7.2	6.4	5.5	4.3	.6	
VEL=	2.3	11.9	4.2	2.8	1.7	1.5	1.4	1.2	1.0	

*SECNO 4.727

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9930.0 10111.0 TYPE= 1 TARGET= 181.000

4.73	10.02	1763.62	1763.62	1763.62	1766.96	3.34	5.10	.94	1757.50
13900.	153.	11526.	2221.	37.	725.	379.	974.	123.	1757.80
.73	4.12	15.89	5.86	.080	.040	.075	.000	1753.60	9930.20
.010457	505.	496.	465.	0	11	0	.00	180.55	10110.75

FLOW DISTRIBUTION FOR SECNO= 4.73 CWSEL= 1763.62

STA=	9930.	9934.	9943.	10026.	10043.	10058.	10073.	10086.	10097.	10110.	10111.
PER Q=	.0	1.1	82.9	4.6	3.7	3.4	2.6	1.3	.4	.0	
AREA=	3.4	33.7	725.2	97.2	82.6	75.9	63.7	37.3	21.7	.2	
VEL=	1.6	4.4	15.9	6.6	6.3	6.1	5.7	4.7	2.8	.6	

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   SECNO     DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   Q         QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
   SLOPE     XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 4.825
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9806.0   10037.0  TYPE=     1  TARGET=     231.000
     4.82    10.51  1772.31  1772.31  1772.30  1775.44     3.13     4.87      .08  1766.10
   13900.    2073.   11617.     210.     483.     753.      49.     989.     126.   1763.10
      .74     4.29    15.42     4.26     .080     .040     .075     .000  1761.80  9806.62
  .008628     535.     515.     490.        0        8        0      .00   230.38 10037.00


FLOW DISTRIBUTION FOR SECNO=      4.82          CWSEL=   1772.31

STA=    9807.    9828.    9856.    9879.    9894.    9924.    9947.   10027.   10037.
  PER Q=      .4      1.5      1.9      1.9      4.4      4.8     83.6      1.5
   AREA=    24.8     67.7     72.1     61.4    131.4    125.6    753.3     49.4
    VEL=     2.1      3.1      3.7      4.3      4.6      5.3     15.4      4.3

*SECNO 4.918
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9956.0   10161.0  TYPE=     1  TARGET=     205.000
     BOUNDARY SEC 22/23, T6N; R1W APPX RM. 4.865
     4.92    11.81  1780.01  1780.01  1780.01  1783.34     3.33     4.10      .15  1768.70
   13900.     168.   11168.    2565.      46.     691.     532.    1003.     128.   1772.00
      .75     3.67    16.16     4.82     .080     .040     .075     .000  1768.20  9956.00
  .007970     465.     492.     540.        0        8        0      .00   204.23 10160.23


FLOW DISTRIBUTION FOR SECNO=      4.92          CWSEL=   1780.01

STA=    9956.    9964.   10028.   10041.   10053.   10068.   10076.   10082.   10099.   10110.   10132.   10147.   10160.
  PER Q=      1.2     80.3      4.3      2.4      2.1      1.2      1.0      2.9      1.3      2.2       .9       .2
   AREA=    45.6    691.1     91.8     62.6     63.4     35.4     29.0     80.6     40.8     76.7     39.2     12.9
    VEL=     3.7     16.2      6.5      5.3      4.7      4.6      4.9      5.0      4.3      4.0      3.3      1.8

*SECNO 5.044
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9770.0   10032.0  TYPE=     1  TARGET=     262.000
     5.04    10.54  1788.34  1788.34  1788.33  1791.24     2.90     5.52      .17  1780.60
   13900.    3512.   10013.     375.     723.     633.      85.    1023.     131.   1777.80
      .76     4.86    15.82     4.43     .080     .040     .085     .000  1777.80  9770.60
  .008912     685.     664.     560.        0       15        0      .00   261.04 10031.63
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
T	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.04 CWSEL= 1788.34

STA=	9771.	9790.	9812.	9842.	9856.	9875.	9899.	9916.	9933.	9950.	10016.	10032.
PER Q=	.2	.9	3.0	2.2	2.9	4.4	3.8	3.2	4.6	72.0	2.7	
AREA=	16.4	45.6	105.1	62.9	84.0	120.0	96.1	85.8	106.7	633.0	84.5	
VEL=	1.7	2.9	4.0	4.8	4.8	5.1	5.5	5.2	6.0	15.8	4.4	

*SECNO 5.156
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9973.0 10185.0 TYPE= 1 TARGET= 212.000

5.16	8.76	1797.66	1797.66	1797.65	1800.54	2.89	7.07	.00	1789.60
13900.	220.	10337.	3343.	43.	676.	480.	1041.	135.	1790.00
.77	5.14	15.29	6.96	.080	.050	.075	.000	1788.90	9973.49
.016206	540.	595.	700.	0	15	0	.00	210.32	10183.81

FLOW DISTRIBUTION FOR SECNO= 5.16 CWSEL= 1797.66

STA=	9973.	9984.	10067.	10087.	10106.	10119.	10133.	10158.	10181.	10184.
PER Q=	1.6	74.4	6.6	4.2	3.8	4.1	4.3	1.1	.0	
AREA=	42.7	675.9	113.0	86.0	68.5	75.8	95.6	40.4	.6	
	5.1	15.3	8.1	6.8	7.7	7.5	6.2	3.7	.8	

*SECNO 5.250

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9855.0 10083.0 TYPE= 1 TARGET= 228.000

5.25	10.08	1805.98	1805.08	1805.98	1807.88	1.90	6.94	.40	1800.10
13900.	6446.	6243.	1211.	706.	465.	213.	1056.	137.	1800.60
.79	9.13	13.42	5.70	.060	.050	.075	.000	1795.90	9855.00
.011961	650.	489.	330.	2	8	0	.00	227.87	10082.87

FLOW DISTRIBUTION FOR SECNO= 5.25 CWSEL= 1805.98

STA=	9855.	9877.	9888.	9902.	9912.	9929.	9942.	9966.	9973.	10027.	10052.	10073.	10083.
PER Q=	7.8	6.5	7.7	5.5	5.9	3.0	7.6	2.4	44.9	5.2	3.4	.1	
AREA=	123.0	85.5	102.3	74.8	95.7	58.5	128.5	37.7	465.1	118.2	85.3	9.0	
VEL=	8.8	10.5	10.4	10.2	8.6	7.2	8.3	8.9	13.4	6.1	5.6	2.0	

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TW       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 5.334

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9902.0   10029.0  TYPE=     1  TARGET=     127.000
     5.33    11.56  1814.16  1814.16  1814.16  1818.17     4.01     5.11     1.69  1803.90
   13900.    4633.    8867.     399.     474.     472.      69.    1069.     139.   1805.50
      .80     9.78    18.79     5.76     .060     .040     .075     .000  1802.60  9902.74
  .010612     460.     451.     445.        0        8        0      .00   125.68 10028.42


FLOW DISTRIBUTION FOR SECNO=      5.33          CWSEL=   1814.16

STA=    9903.    9908.    9916.    9932.    9946.    9960.    9970.   10013.   10022.   10028.
  PER Q=      .2      1.8      7.4      8.0      8.3      7.7     63.8      2.6       .3
   AREA=     7.3     38.2    108.8    111.0    112.8     95.9    471.8     57.0     12.4
    VEL=     2.9      6.7      9.4     10.0     10.3     11.2     18.8      6.4      2.9

*SECNO 5.434
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9946.0   10093.0  TYPE=     1  TARGET=     147.000
     5.43    10.22  1822.22  1822.22  1822.20  1826.01     3.78     5.76      .09  1814.60
   13900.     371.    10808.    2721.      71.     626.     368.    1081.     141.   1814.90
      .81     5.23    17.27     7.39     .070     .040     .075     .000  1812.00  9946.67
  .011299     450.     525.     656.        0       11        0      .00   145.78 10092.45


FLOW DISTRIBUTION FOR SECNO=      5.43          CWSEL=   1822.22

STA=    9947.    9965.   10033.   10050.   10060.   10070.   10078.   10086.   10092.
  PER Q=      2.7     77.8      6.7      3.8      3.8      3.2      1.9       .2
   AREA=     71.0    625.6    120.8     69.0     66.7     56.7     45.6      9.1
    VEL=     5.2     17.3      7.7      7.7      7.8      7.8      5.9      2.6

*SECNO 5.529

3301 HV CHANGED MORE THAN HVINS
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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
 [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9896.0   10049.0  TYPE=     1  TARGET=     153.000
       M-9 TRIBUTARY APPX RM. 5.433
    5.53     9.74  1829.64  1829.16  1829.69  1832.72     3.07     6.43      .28  1821.70
   13900.    6742.    6368.     790.     676.     356.     108.    1094.     142.   1819.90
     .82     9.98    17.88     7.33     .070     .045     .075     .000  1819.90  9896.39
  .015051    485.     501.     490.        2       11        0      .00   152.50 10048.89


FLOW DISTRIBUTION FOR SECNO=      5.53          CWSEL=   1829.64

STA=    9896.    9908.    9919.    9928.    9943.    9950.    9953.    9965.    9978.    9988.   10026.   10042.   10049.
  PER Q=     2.1      7.2      5.5      7.7      3.9      2.1      7.4      6.9      5.8     45.8      5.5       .2
   AREA=    49.0     92.0     73.0    108.8     53.2     27.2     98.4     95.8     78.0    356.1     98.2      9.6
    VEL=     5.9     10.9     10.5      9.8     10.1     10.6     10.4     10.1     10.2     17.9      7.8      2.9

*SECNO 5.625

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9928.0   10184.0  TYPE=     1  TARGET=     256.000
    [illegible]63     9.42  1837.32  1836.29  1837.30  1839.08     1.76     5.83      .53  1829.70
    [illegible].     430.    10021.     3449.       88.     832.     608.    1109.     145.   1831.40
    [illegible].83     4.90    12.04     5.67     .070     .045     .075     .000  1827.90  9928.10
  .009266    500.     506.     485.        2       15        0      .00   255.61 10183.72


FLOW DISTRIBUTION FOR SECNO=      5.63          CWSEL=   1837.32

STA=    9928.    9951.   10063.   10088.   10115.   10135.   10149.   10171.   10183.   10184.
  PER Q=     3.1     72.1      5.9      6.1      4.0      2.6      5.0      1.1       .0
   AREA=    87.7    832.4    136.5    146.4     99.3     67.0    118.6     39.7       .4
    VEL=     4.9     12.0      6.0      5.8      5.6      5.4      5.9      4.0       .8

*SECNO 5.726

3470 ENCROACHMENT STATIONS=    9830.0   10126.0  TYPE=     1  TARGET=     296.000
    5.73     8.41  1843.41  1843.04  1843.41  1845.37     1.96     6.13      .16  1838.00
   13900.    5660.    6555.    1685.     738.     454.     298.    1127.     148.   1839.00
     .84     7.67    14.44     5.65     .075     .045     .070     .000  1835.00  9830.21
  .014679    570.     534.     485.        3       15        0      .00   295.38 10125.58
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S	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 5.73 CWSEL= 1843.41

STA=	9830.	9848.	9862.	9873.	9887.	9903.	9941.	9961.	10025.	10063.	10098.	10126.
PER Q=	5.1	6.5	3.9	3.6	4.2	11.3	6.2	47.2	6.5	4.5	1.1	
AREA=	93.9	100.2	68.5	70.7	81.5	208.9	114.0	453.9	144.8	111.1	42.4	
VEL=	7.6	9.0	7.9	7.0	7.2	7.5	7.5	14.4	6.3	5.6	3.7	

*SECNO 5.808

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9871.0 10027.0 TYPE= 1 TARGET= 156.000

5.81	10.66	1852.26	1852.26	1852.26	1855.95	3.68	5.97	1.38	1843.40
13900.	5306.	8297.	297.	654.	441.	51.	1141.	150.	1842.00
.85	8.12	18.81	5.80	.075	.040	.070	.000	1841.60	9871.54
.012327	465.	433.	415.	0	11	0	.00	155.46	10027.00

FLOW DISTRIBUTION FOR SECNO= 5.81 CWSEL= 1852.26

STA=	9872.	9887.	9905.	9923.	9946.	9957.	9970.	10015.	10021.	10027.
PER Q=	1.5	5.7	6.3	9.3	6.3	9.0	59.7	1.9	.2	
AREA=	47.0	108.9	115.1	161.6	94.5	126.9	441.0	41.6	9.6	
VEL=	4.5	7.3	7.6	8.0	9.2	9.9	18.8	6.4	3.0	

*SECNO 5.905
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9962.0 10085.0 TYPE= 1 TARGET= 123.000
M-8 TRIBUTARY APPX RM. 5.853

5.91	9.44	1858.74	1858.74	1858.73	1862.37	3.63	6.03	.02	1856.30
12300.	9.	11891.	400.	4.	767.	74.	1152.	152.	1853.90
.86	2.14	15.51	5.41	.075	.040	.075	.000	1849.30	9962.24
.011916	430.	512.	540.	0	11	0	.00	122.76	10085.00

FLOW DISTRIBUTION FOR SECNO= 5.91 CWSEL= 1858.74

STA=	9962.	9966.	10066.	10074.	10085.
PER Q=	.1	96.7	2.2	1.0	
AREA=	4.1	766.7	42.0	31.8	
VEL=	2.1	15.5	6.5	4.0	

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 6.010

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9726.0   10139.0  TYPE=     1  TARGET=     413.000
     6.01     8.71  1866.91  1864.95  1866.92  1867.63      .72     4.10     1.16  1862.00
   12300.    5242.    5082.    1976.    1223.     548.     468.    1171.     155.  1861.50
      .88     4.29     9.27     4.23     .075     .040     .080     .000  1858.20  9726.00
  .005123     495.     557.     600.        2       19        0      .00   413.00 10139.00


FLOW DISTRIBUTION FOR SECNO=      6.01          CWSEL=   1866.91

STA=    9726.    9746.    9754.    9767.    9791.    9831.    9863.    9891.    9920.    9955.    9968.   10052.   10072.
  PER Q=      4.0      3.4      4.5      5.3      6.4      4.3      4.3      4.2      4.2      2.0     41.3      3.5
   AREA=    107.3     71.0    100.0    141.1    195.5    138.5    131.7    133.8    142.4     61.7    548.0    106.5
    VEL=      4.6      6.0      5.5      4.6      4.0      3.8      4.0      3.9      3.6      3.9      9.3      4.1
STA=   10072.   10087.   10122.   10139.
  PER Q=      3.5      7.9      1.2
   AREA=     94.9    215.8     50.5
    VEL=      4.5      4.5      2.8

*S[illegible].094

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9923.0   10088.0  TYPE=     1  TARGET=     165.000
     6.09     8.14  1873.74  1873.74  1873.70  1876.90     3.15     3.66     1.95  1867.30
   12300.    1593.    8506.    2201.     203.     525.     253.    1187.     158.  1866.30
      .89     7.86    16.20     8.71     .075     .045     .070     .000  1865.60  9923.00
  .016000     400.     444.     477.        0       11        0      .00   165.00 10088.00


FLOW DISTRIBUTION FOR SECNO=      6.09          CWSEL=   1873.74

STA=    9923.    9940.    9942.    9942.    9973.   10041.   10064.   10088.
  PER Q=       .1       .2       .1     12.5     69.2     13.4      4.5
   AREA=      9.0      8.0      1.7    184.0    525.0    163.4     89.3
    VEL=      1.7      3.4      7.7      8.4     16.2     10.1      6.2
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   SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 6.143
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9976.0   10103.0  TYPE=     1  TARGET=     127.000
     6.14     8.29  1878.89  1878.89  1878.89  1882.50     3.60     3.88      .36  1870.70
   12300.     236.   10475.    1589.      45.     648.     195.    1193.     159.   1870.70
      .90     5.26    16.17     8.15     .075     .045     .070     .000  1870.60  9976.36
  .014484     228.     255.     270.        0        5        0      .00   126.64 10103.00


FLOW DISTRIBUTION FOR SECNO=      6.14          CWSEL=   1878.89

STA=    9976.    9987.   10066.   10081.   10093.   10103.
  PER Q=      1.9     85.2      7.9      3.9      1.1
   AREA=     44.8    647.7    105.6     61.0     28.5
    VEL=      5.3     16.2      9.2      8.0      4.6

*SECNO 6.231

3301 HV CHANGED MORE THAN HVINS

347[illegible]ROACHMENT STATIONS=    9892.0   10226.0  TYPE=     1  TARGET=     334.000
        M-7 TRIBUTARY APPX RM. 6.166
     6.23    10.00  1886.40  1883.03  1886.41  1886.91      .51     3.18     1.24  1879.40
   12000.    2315.    3948.    5737.     486.     526.    1250.    1208.     161.   1880.00
      .92     4.76     7.50     4.59     .075     .050     .075     .000  1876.40  9892.21
  .004173     500.     467.     390.        2       15        0      .00   333.61 10225.82


FLOW DISTRIBUTION FOR SECNO=      6.23          CWSEL=   1886.40

STA=    9892.    9917.    9938.    9963.   10031.   10066.   10099.   10128.   10147.   10159.   10173.   10180.   10190.
  PER Q=      4.4      7.5      7.3     32.9      7.0      6.1      5.4      3.5      3.6      6.5      3.1      4.7
   AREA=    129.3    174.4    182.2    526.1    202.7    182.5    162.2    104.9     90.1    136.5     66.1     96.5
    VEL=      4.1      5.2      4.8      7.5      4.1      4.0      4.0      4.0      4.8      5.7      5.7      5.8
STA=   10190.   10201.   10214.   10226.
  PER Q=      4.4      3.1       .5
   AREA=     95.4     85.1     27.9
    VEL=      5.5      4.4      2.1
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  T[illegible]  VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 6.323

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9982.0   10171.0  TYPE=     1  TARGET=     189.000
     6.32     7.76  1892.36  1892.36  1892.36  1895.01     2.65     4.20     1.71  1886.80
   12000.      75.    3804.    8121.      15.     215.     789.    1226.     164.   1887.10
      .93     5.17    17.68    10.29     .075     .050     .075     .000  1884.60  9982.36
  .028761     505.     485.     472.        0       15        0      .00   188.64 10171.00


FLOW DISTRIBUTION FOR SECNO=      6.32          CWSEL=   1892.36

STA=    9982.    9988.   10020.   10041.   10057.   10075.   10097.   10109.   10125.   10133.   10136.   10162.   10171.
  PER Q=      .6     31.7      9.5      7.6      7.7      9.1      6.8     10.1      4.4      1.8      9.8       .9
   AREA=    14.6    215.1    111.9     87.3     93.0    109.8     73.3    103.4     48.0     20.2    121.9     20.2
    VEL=     5.2     17.7     10.2     10.4      9.9     10.0     11.2     11.7     11.1     10.6      9.6      5.2

*SECNO 6.391

33[illegible]CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9962.0   10058.0  TYPE=     1  TARGET=      96.000
     6.39    11.24  1900.44  1900.44  1900.43  1904.72     4.28     7.95     1.30  1890.90
   12000.    1888.    9654.     458.     193.     539.      67.    1234.     165.   1890.30
      .94     9.79    17.93     6.88     .075     .055     .075     .000  1889.20  9962.00
  .018906     385.     361.     310.        0       11        0      .00    95.84 10057.84


FLOW DISTRIBUTION FOR SECNO=      6.39          CWSEL=   1900.44

STA=    9962.    9966.    9982.    9994.   10045.   10058.
  PER Q=      .1      5.2     10.5     80.4      3.8
   AREA=     3.0     82.8    107.0    538.5     66.6
    VEL=     2.3      7.5     11.7     17.9      6.9
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SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
[illegible]	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 6.450

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9961.0 10200.0 TYPE= 1 TARGET= 239.000

6.45	13.48	1907.48	1902.52	1907.38	1908.01	.53	1.79	1.50	1895.60
12000.	197.	4945.	6858.	74.	659.	1576.	1246.	166.	1896.30
.95	2.66	7.50	4.35	.075	.055	.075	.000	1894.00	9961.11
.002570	285.	309.	375.	3	19	0	.00	238.89	10200.00

FLOW DISTRIBUTION FOR SECNO= 6.45 CWSEL= 1907.48

STA=	9961.	9974.	10025.	10047.	10070.	10087.	10097.	10123.	10144.	10171.	10200.
PER Q=	1.6	41.2	11.3	10.6	6.1	4.3	8.4	4.4	6.0	6.0	
AREA=	74.2	659.1	261.4	255.8	160.5	109.8	232.5	143.0	195.3	218.1	
VEL=	2.7	7.5	5.2	5.0	4.6	4.7	4.3	3.7	3.7	3.3	

*SECNO 6.514

3301 HV CHANGED MORE THAN HVINS

71[illegible]IMUM SPECIFIC ENERGY
372[illegible]ITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9976.0 10160.0 TYPE= 1 TARGET= 184.000

6.51	9.35	1909.85	1909.85	1909.84	1912.81	2.96	1.95	1.94	1904.50
12000.	37.	4941.	7022.	10.	262.	810.	1259.	168.	1904.30
.96	3.69	18.85	8.67	.075	.040	.080	.000	1900.50	9976.28
.019755	330.	340.	360.	0	19	0	.00	183.71	10160.00

FLOW DISTRIBUTION FOR SECNO= 6.51 CWSEL= 1909.85

STA=	9976.	9980.	10016.	10025.	10041.	10056.	10075.	10105.	10136.	10150.	10160.	10160.
PER Q=	.3	41.2	4.4	11.1	11.9	11.1	8.1	6.1	3.3	2.4	.0	
AREA=	9.9	262.1	59.0	126.4	129.8	140.3	135.3	115.5	59.9	41.4	2.2	
VEL=	3.7	18.9	9.0	10.5	11.0	9.5	7.2	6.3	6.7	7.1	1.5	

*SECNO 6.616

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9785.0   10057.0  TYPE=     1  TARGET=     272.000
     6.62     9.94  1917.34  1916.47  1917.18  1919.01     1.67     5.69      .51  1909.90
   12000.    5372.    6383.     245.    1061.     475.      66.    1276.     171.   1908.70
      .98     5.06    13.44     3.69     .075     .040     .080     .000  1907.40  9785.00
  .006703     650.     534.     440.        2        8        0      .00   272.00 10057.00


FLOW DISTRIBUTION FOR SECNO=      6.62          CWSEL=   1917.34

STA=    9785.    9821.    9852.    9868.    9887.    9906.    9923.    9938.    9956.    9972.    9991.   10042.   10057.
  PER Q=     3.0      5.9      3.4      3.5      3.3      3.7      3.5      5.2      6.0      7.3     53.2      2.0
   AREA=   102.6    150.0     86.0     90.5     87.2     89.4     82.3    114.1    116.7    142.1    475.0     66.5
    VEL=     3.6      4.7      4.8      4.6      4.5      5.0      5.0      5.5      6.1      6.2     13.4      3.7

*SECNO 6.707
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9748.0   10115.0  TYPE=     1  TARGET=     367.000
     BOUNDARY SEC 9/10 T6N; R1W APPX RM. 6.688
     6.71     7.64  1922.54  1922.54  1922.53  1924.43     1.89     4.67      .17  1916.20
   12000.    4335.    4977.    2688.     776.     322.     377.    1293.     174.   1916.80
      .99     5.59    15.46     7.14     .080     .045     .080     .000  1914.90  9748.69
  .016561     435.     484.     505.        0       19        0      .00   366.31 10115.00


FLOW DISTRIBUTION FOR SECNO=      6.71          CWSEL=   1922.54

STA=    9749.    9797.    9815.    9827.    9865.    9887.    9915.    9941.    9987.    9995.   10041.   10051.   10062.
  PER Q=     4.5      7.8      3.1      5.1      3.4      3.7      3.1      3.8      1.7     41.5      4.3      4.8
   AREA=   105.4    113.8     57.9    118.9     74.4     87.3     75.8    107.5     34.8    322.0     62.3     72.5
    VEL=     5.1      8.2      6.5      5.1      5.5      5.0      4.9      4.3      5.9     15.5      8.3      7.9
STA=   10062.   10079.   10096.   10109.   10115.
  PER Q=     3.6      3.9      4.2      1.7
   AREA=    69.6     73.6     69.9     28.8
    VEL=     6.2      6.4      7.1      7.0

*SECNO 6.798
7185 MINIMUM SPECIFIC ENERGY
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9789.0   10090.0  TYPE=     1  TARGET=     301.000
     6.80     8.40  1930.70  1930.70  1930.66  1932.80     2.09     7.25      .16  1925.80
   12000.    3356.    8096.     548.     620.     594.      98.    1307.     178.   1925.90
     1.00     5.41    13.62     5.57     .075     .045     .080     .000  1922.30  9789.00
  .014375     424.     482.     532.        0        8        0      .00   301.00 10090.00


FLOW DISTRIBUTION FOR SECNO=      6.80          CWSEL=   1930.70

STA=    9789.    9800.    9805.    9850.    9865.    9887.    9905.    9928.    9946.    9975.   10068.   10084.   10090.
  PER Q=      .6      1.0      5.2      1.4      3.7      2.8      3.1      3.0      7.1     67.5      3.8       .8
   AREA=    21.8     20.3    129.5     37.6     78.6     62.3     72.9     64.7    132.4    594.5     74.3     24.0
    VEL=     3.5      6.0      4.8      4.4      5.6      5.4      5.1      5.6      6.5     13.6      6.1      4.0

*SECNO 6.901

3470 ENCROACHMENT STATIONS=    9750.0   10054.0  TYPE=     1  TARGET=     304.000
     6.90     7.47  1939.17  1939.11  1939.12  1941.16     1.99     8.32      .04  1934.60
   12000.    4217.    7719.      64.     686.     578.      15.    1323.     181.   1934.20
     1.01     6.15    13.36     4.22     .075     .045     .080     .000  1931.70  9750.11
  .014031     520.     541.     544.        2       15        0      .00   303.89 10054.00


FLOW DISTRIBUTION FOR SECNO=      6.90          CWSEL=   1939.17

STA=    9750.    9785.    9817.    9856.    9883.    9906.    9922.    9944.   10048.   10054.
  PER Q=      3.8      6.3      5.8      6.1      4.7      3.0      5.4     64.3       .5
   AREA=    87.9    121.7    122.4    111.2     89.7     58.4     94.5    577.7     15.3
    VEL=     5.2      6.3      5.6      6.6      6.2      6.2      6.8     13.4      4.2

*SECNO 6.987

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9965.0   10108.0  TYPE=     1  TARGET=     143.000
     6.99     8.99  1949.79  1949.79  1949.79  1953.07     3.28     8.81     1.03  1940.90
   12000.     283.    8284.    3433.      38.     499.     411.    1335.     184.   1943.60
     1.02     7.38    16.60     8.35     .075     .055     .085     .000  1940.80  9965.00
  .022575     420.     456.     480.        0       11        0      .00   142.98 10107.98
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


FLOW DISTRIBUTION FOR SECNO=      6.99          CWSEL=   1949.79

STA=    9965.    9967.    9970.    9973.   10034.   10059.   10085.   10099.   10108.
  PER Q=      .0       .6      1.8     69.0     10.9     11.0      5.7       .9
   AREA=     1.7     12.4     24.3    499.0    152.1    153.9     81.1     24.2
    VEL=     2.3      5.5      8.7     16.6      8.6      8.6      8.5      4.6

*SECNO 7.111

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9830.0   10297.0  TYPE=     1  TARGET=     467.000
     7.11     8.43  1958.73  1956.90  1958.73  1959.40      .66     5.27     1.05  1955.50
   12000.    3055.    6279.    2666.     689.     766.     783.    1355.     188.   1954.70
     1.05     4.44     8.20     3.40     .075     .045     .080     .000  1950.30  9830.01
  .005153     564.     565.     541.        3       19        0      .00   466.79 10296.80


FLOW DISTRIBUTION FOR SECNO=      7.11          CWSEL=   1958.73

STA=    9830.    9866.    9888.    9902.    9913.    9924.    9946.    9965.   10083.   10123.   10166.   10190.   10218.
  PER Q=     3.9      4.9      4.2      3.5      3.3      3.9      1.8     52.3      4.0      4.7      4.3      5.1
           129.7    127.9     97.5     78.1     76.5    112.3     66.7    766.1    148.1    169.0    127.9    150.5
    VEL=     3.6      4.6      5.1      5.4      5.1      4.2      3.3      8.2      3.2      3.4      4.0      4.0
STA=   10218.   10257.   10297.
  PER Q=     3.2       .9
   AREA=   127.8     59.8
    VEL=     3.0      1.9

*SECNO 7.199

3265 DIVIDED FLOW


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9929.0   10176.0  TYPE=     1  TARGET=     247.000
     7.20     8.12  1966.12  1966.12  1966.12  1968.74     2.62     4.18     1.57  1959.60
   12000.    4168.    6339.    1494.     397.     409.     274.    1374.     192.   1962.20
     1.06    10.49    15.50     5.46     .070     .045     .080     .000  1958.00  9929.00
  .018254     436.     465.     576.        0        8        0      .00   214.27 10176.00
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[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 7.20 CWSEL= 1966.12

STA=	9929.	9953.	9965.	9974.	9986.	10049.	10119.	10156.	10176.
PER Q=	13.5	7.9	5.9	7.4	52.8	4.3	7.4	.8	
AREA=	159.4	87.7	66.4	83.8	408.8	103.9	143.2	26.6	
VEL=	10.2	10.8	10.7	10.6	15.5	4.9	6.2	3.4	

*SECNO 7.297

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9888.0 10179.0 TYPE= 1 TARGET= 291.000

7.30	8.59	1974.39	1973.15	1974.39	1975.66	1.27	6.38	.54	1969.00
12000.	2667.	7044.	2289.	432.	654.	451.	1389.	195.	1969.00
1.08	6.18	10.78	5.07	.070	.045	.075	.000	1965.80	9888.00
.008623	532.	523.	528.	3	15	0	.00	291.00	10179.00

FLOW DISTRIBUTION FOR SECNO= 7.30 CWSEL= 1974.39

STA=	9888.	9930.	9942.	9963.	9977.	10075.	10092.	10109.	10137.	10158.	10179.
PER Q=	8.3	4.0	6.0	3.8	58.7	4.1	3.4	6.0	3.9	1.6	
[illegible]	166.4	73.7	116.2	75.5	653.7	89.3	79.7	135.9	93.5	52.9	
VEL=	6.0	6.5	6.2	6.1	10.8	5.5	5.2	5.3	5.0	3.6	

*SECNO 7.396

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9885.0 10172.0 TYPE= 1 TARGET= 287.000

7.40	6.69	1981.59	1981.59	1981.59	1983.69	2.10	6.76	.67	1978.80
12000.	2272.	6901.	2827.	282.	494.	412.	1406.	198.	1978.50
1.09	8.06	13.96	6.86	.075	.045	.075	.000	1974.90	9885.16
.021372	524.	523.	528.	0	15	0	.00	286.65	10171.81

FLOW DISTRIBUTION FOR SECNO= 7.40 CWSEL= 1981.59

STA=	9885.	9912.	9933.	9948.	10048.	10068.	10080.	10096.	10121.	10159.	10172.
PER Q=	8.1	7.6	3.2	57.5	3.6	3.4	5.0	5.9	5.4	.3	
AREA=	120.7	105.9	55.4	494.5	66.5	53.6	73.7	98.1	108.5	11.6	
VEL=	8.1	8.6	7.0	14.0	6.5	7.7	8.1	7.2	6.0	2.7	

SECNO	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7.494

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9942.0 10117.0 TYPE= 1 TARGET= 175.000

7.49	8.83	1991.43	1991.43	1991.43	1994.33	2.90	9.38	.64	1985.80
12000.	2563.	8491.	947.	254.	561.	162.	1419.	201.	1986.40
1.10	10.10	15.14	5.85	.060	.045	.075	.000	1982.60	9942.21
.015559	524.	516.	516.	0	11	0	.00	174.79	10117.00

FLOW DISTRIBUTION FOR SECNO= 7.49 CWSEL= 1991.43

STA=	9942.	9952.	9958.	9969.	9987.	10066.	10089.	10111.	10117.
PER Q=	1.4	4.2	7.1	8.6	70.8	5.7	2.1	.0	
AREA=	29.1	45.7	75.8	103.3	560.8	102.7	55.9	3.1	
VEL=	5.8	11.1	11.3	10.0	15.1	6.7	4.5	1.6	

*SECNO 7.577

33[illegible] CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9915.0 10147.0 TYPE= 1 TARGET= 232.000

7.58	9.25	1999.25	1998.22	1999.26	2000.91	1.67	6.09	.49	1992.30
12000.	3219.	6259.	2522.	444.	490.	406.	1430.	203.	1995.00
1.11	7.25	12.78	6.21	.085	.050	.075	.000	1990.00	9915.39
.013049	480.	438.	300.	2	11	0	.00	231.09	10146.48

FLOW DISTRIBUTION FOR SECNO= 7.58 CWSEL= 1999.25

STA=	9915.	9944.	9952.	9964.	9974.	9982.	10048.	10078.	10103.	10115.	10146.
PER Q=	7.0	3.8	7.6	5.3	3.1	52.2	7.9	7.5	3.2	2.4	
AREA=	143.5	60.8	106.8	81.9	51.1	489.9	146.4	130.1	60.1	69.5	
VEL=	5.8	7.5	8.6	7.8	7.3	12.8	6.5	7.0	6.3	4.1	

*SECNO 7.670

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TYPE     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9925.0   10081.0  TYPE=     1  TARGET=     156.000
       M-6 TRIBUTARY APPX RM. 7.593
     7.67     7.81  2006.71  2006.71  2006.69  2009.81     3.11     7.65     1.15  2003.60
   12000.      66.    9141.    2793.      20.     596.     296.    1442.     205.   2001.70
     1.12     3.24    15.34     9.42     .085     .045     .075     .000  1998.90  9925.00
  .019278     524.     490.     456.        0       15        0      .00   156.00 10081.00


FLOW DISTRIBUTION FOR SECNO=      7.67          CWSEL=   2006.71

STA=    9925.    9938.   10034.   10040.   10056.   10074.   10081.
  PER Q=       .6     76.2      2.4      8.2     11.4      1.2
   AREA=     20.5    595.8     34.1    103.0    131.7     27.6
    VEL=      3.2     15.3      8.4      9.6     10.4      5.2

*SECNO 7.752

33[illegible] CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9963.0   10067.0  TYPE=     1  TARGET=     104.000
     7.75     9.11  2015.81  2015.81  2015.81  2019.80     3.99     8.62      .71  2006.70
   12000.    1339.   10475.     185.     152.     621.      33.    1451.     206.   2006.80
     1.13     8.83    16.86     5.69     .080     .055     .075     .000  2006.70  9963.00
  .020685     412.     431.     448.        0        8        0      .00   103.63 10066.63


FLOW DISTRIBUTION FOR SECNO=      7.75          CWSEL=   2015.81

STA=    9963.    9967.    9977.    9986.    9991.   10059.   10067.
  PER Q=       .1      2.8      4.9      3.4     87.3      1.5
   AREA=      4.6     47.9     59.3     40.0    621.5     32.6
    VEL=      2.7      6.9      9.8     10.3     16.9      5.7
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[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 7.798

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9852.0 10080.0 TYPE= 1 TARGET= 228.000

7.80	10.41	2022.61	2018.74	2022.61	2023.36	.74	2.25	1.30	2013.90
12000.	4703.	6264.	1033.	894.	765.	213.	1459.	207.	2013.00
1.14	5.26	8.19	4.86	.080	.055	.070	.000	2012.20	9852.06
.004543	320.	248.	272.	3	19	0	.00	227.94	10080.00

FLOW DISTRIBUTION FOR SECNO= 7.80 CWSEL= 2022.61

STA=	9852.	9880.	9904.	9918.	9939.	9960.	10041.	10053.	10078.	10080.
PER Q=	6.6	11.3	5.3	7.4	8.7	52.2	5.3	3.3	.0	
AREA=	171.5	235.5	119.0	174.3	193.6	765.3	107.7	103.1	1.9	
VEL=	4.6	5.7	5.3	5.1	5.4	8.2	5.9	3.9	1.1	

*SECNO 7.892

3301 HV CHANGED MORE THAN HVINS

718[illegible]IMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9926.0 10135.0 TYPE= 1 TARGET= 209.000

7.89	7.69	2028.69	2028.69	2028.69	2031.17	2.48	4.37	1.39	2022.50
12000.	498.	6155.	5347.	73.	405.	571.	1476.	210.	2023.80
1.15	6.81	15.20	9.36	.080	.055	.070	.000	2021.00	9926.00
.023713	440.	498.	544.	0	19	0	.00	208.72	10134.72

FLOW DISTRIBUTION FOR SECNO= 7.89 CWSEL= 2028.69

STA=	9926.	9929.	9938.	9950.	10007.	10028.	10050.	10071.	10092.	10103.	10120.	10132.	10135.
PER Q=	.0	.6	3.5	51.3	7.4	9.0	10.3	9.7	4.2	3.3	.6	.0	
AREA=	1.2	17.2	54.6	404.9	96.3	112.0	120.3	114.8	52.9	56.5	16.6	1.8	
VEL=	1.6	4.3	7.7	15.2	9.2	9.7	10.2	10.2	9.5	7.0	4.3	2.1	

*SECNO 8.003

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 SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9824.0   10108.0  TYPE=     1  TARGET=     284.000
     8.00     7.48  2040.58  2039.88  2040.56  2042.11     1.53    10.56      .38  2035.10
   12000.    4028.    5961.    2011.     595.     479.     339.    1493.     213.   2034.00
     1.17     6.77    12.46     5.94     .075     .050     .080     .000  2033.10  9824.00
  .014315     680.     581.     524.        3       15        0      .00   284.00 10108.00


FLOW DISTRIBUTION FOR SECNO=      8.00          CWSEL=   2040.58

STA=    9824.    9865.    9889.    9902.    9914.    9925.    9940.    9953.   10026.   10047.   10080.   10108.
  PER Q=     4.8      6.7      4.8      4.6      3.5      4.7      4.3     49.7      6.2      6.9      3.6
   AREA=   120.3    117.1     76.8     71.7     57.5     79.5     71.8    478.6    109.2    142.1     87.5
    VEL=     4.8      6.9      7.6      7.7      7.4      7.1      7.2     12.5      6.8      5.9      5.0

*SECNO 8.095

3470 ENCROACHMENT STATIONS=    9970.0   10279.0  TYPE=     1  TARGET=     309.000
     8.10     7.12  2049.22  2049.02  2049.18  2050.99     1.77     8.69      .20  2043.10
   [illegible]0.      77.    6347.    5577.      16.     479.     824.    1510.     217.   2044.10
   [illegible]8     4.79    13.24     6.77     .080     .050     .075     .000  2042.10  9970.00
  .019138     512.     488.     600.        3       11        0      .00   309.00 10279.00


FLOW DISTRIBUTION FOR SECNO=      8.10          CWSEL=   2049.22

STA=    9970.    9975.   10058.   10071.   10097.   10121.   10148.   10171.   10201.   10223.   10251.   10270.   10279.
  PER Q=      .6     52.9      3.8      6.1      6.1      8.1      4.7      4.2      3.4      6.4      3.5       .1
   AREA=    16.0    479.2     60.7    104.2    103.3    126.4     86.2     88.4     69.6    111.7     66.8      6.7
    VEL=     4.8     13.2      7.5      7.0      7.1      7.7      6.6      5.7      5.9      6.9      6.2      2.3

*SECNO 8.190

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9946.0   10315.0  TYPE=     1  TARGET=     369.000
     8.19     7.64  2058.64  2057.93  2058.62  2059.78     1.14     8.54      .25  2053.90
   12000.     483.    4038.    7479.      89.     338.    1201.    1527.     221.   2055.00
     1.20     5.41    11.95     6.23     .080     .050     .075     .000  2051.00  9946.00
  .014584     512.     500.     524.        3        8        0      .00   369.00 10315.00
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[illegible]  DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
[illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
TIME         VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
SLOPE        XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      8.19          CWSEL=   2058.64

STA=    9946.    9965.   10020.   10048.   10069.   10095.   10130.   10163.   10188.   10212.   10228.   10247.   10268.
  PER Q=      4.0     33.6      5.3      4.6      4.4      5.0      5.3      8.3      7.6      4.5      5.5      4.2
   AREA=     89.2    337.8    107.0     88.9     93.4    114.2    115.0    135.2    126.5     77.0     94.7     83.8
    VEL=      5.4     12.0      6.0      6.2      5.7      5.2      5.5      7.4      7.2      7.0      7.0      6.0
STA=   10268.   10299.   10315.
  PER Q=      4.8      2.9
   AREA=    105.8     59.8
    VEL=      5.5      5.8

*SECNO 8.283

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9924.0   10206.0  TYPE=     1  TARGET=     282.000
        BOUNDARY SEC 8/9, T6N; R1W APPX RM. 8.294
     8.28     6.96  2067.56  2067.56  2067.49  2069.62     2.07     8.39      .74  2062.70
    12000.     960.     8535.     2505.     128.     654.     420.    1544.     225.  2063.50
[illegible]21     7.47     13.05     5.97     .065     .050     .070     .000  2060.60  9924.00
[illegible]6     476.     492.     568.        0       11        0      .00   282.00 10206.00


FLOW DISTRIBUTION FOR SECNO=      8.28          CWSEL=   2067.56

STA=    9924.    9940.    9960.   10069.   10096.   10121.   10137.   10164.   10179.   10199.   10206.
  PER Q=      1.6      6.4     71.1      5.0      2.6      1.8      5.1      2.7      2.9       .7
   AREA=     36.8     91.6    653.9     92.6     62.1     40.9     93.9     50.9     60.0     19.4
    VEL=      5.1      8.4     13.1      6.5      5.1      5.4      6.5      6.3      5.8      4.5

*SECNO 8.380

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9784.0   10215.0  TYPE=     1  TARGET=     431.000
     8.38     6.98  2077.18  2076.08  2076.93  2077.98      .80     7.85      .51  2074.20
    12000.    4662.     4004.     3334.     641.     495.     576.    1561.     229.  2073.40
     1.23     7.27     8.08     5.79     .065     .050     .075     .000  2070.20  9784.12
  .013479     548.     509.     476.        2       15        0      .00   430.88 10215.00
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	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 8.38 CWSEL= 2077.18

STA=	9784.	9798.	9809.	9821.	9848.	9866.	9883.	9908.	9933.	10071.	10109.	10138.	10167.
PER Q=	3.8	5.1	5.4	8.3	5.4	3.2	3.7	4.0	33.4	5.9	4.6	6.5	
AREA=	62.6	67.1	73.6	130.8	86.6	60.7	79.5	80.6	495.5	133.3	102.7	126.7	
VEL=	7.3	9.0	8.8	7.6	7.4	6.3	5.6	5.9	8.1	5.3	5.3	6.2	

STA=	10167.	10187.	10200.	10215.
PER Q=	4.4	3.2	3.3	
AREA=	85.9	60.5	67.1	
VEL=	6.2	6.3	5.8	

*SECNO 8.473

3301 HV CHANGED MORE THAN HVINS

3470 ENCROACHMENT STATIONS= 9841.0 10146.0 TYPE= 1 TARGET= 305.000

8.47	5.61	2085.91	2085.56	2085.84	2087.50	1.59	8.89	.63	2083.50
12000.	4038.	4709.	3253.	479.	390.	367.	1578.	233.	2083.50
1.25	8.44	12.06	8.86	.070	.050	.070	.000	2080.30	9841.24
.024067	500.	496.	520.	3	15	0	.00	304.76	10146.00

FLOW DISTRIBUTION FOR SECNO= 8.47 CWSEL= 2085.91

STA=	9841.	9877.	9903.	9921.	9947.	9965.	10057.	10083.	10096.	10117.	10132.	10146.
PER Q=	12.1	9.3	4.3	5.2	2.8	39.2	4.5	3.3	9.5	7.4	2.4	
AREA=	153.9	122.0	65.9	85.3	51.6	390.4	77.4	49.0	113.5	86.7	40.5	
VEL=	9.4	9.1	7.8	7.3	6.6	12.1	7.0	8.0	10.0	10.3	7.2	

*SECNO 8.567

3470 ENCROACHMENT STATIONS= 9877.0 10168.0 TYPE= 1 TARGET= 291.000

8.57	6.51	2095.61	2095.14	2095.68	2097.23	1.62	9.70	.03	2091.30
12000.	2895.	6547.	2558.	393.	534.	387.	1593.	237.	2090.60
1.26	7.37	12.26	6.61	.070	.050	.070	.000	2089.10	9877.71
.015863	520.	496.	492.	4	8	0	.00	290.21	10167.92

FLOW DISTRIBUTION FOR SECNO= 8.57 CWSEL= 2095.61

STA=	9878.	9906.	9926.	9942.	9967.	10057.	10087.	10108.	10137.	10168.
PER Q=	6.7	8.1	3.9	5.5	54.6	9.7	5.1	4.3	2.3	
AREA=	111.7	115.7	65.6	99.7	533.9	148.9	87.9	90.0	60.2	
VEL=	7.2	8.4	7.1	6.6	12.3	7.8	6.9	5.7	4.5	

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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 8.667

3470 ENCROACHMENT STATIONS=    9870.0   10141.0  TYPE=     1  TARGET=     271.000
     8.67     6.75  2104.75  2104.24  2104.71  2106.43     1.68     9.15      .05  2100.00
   12000.    3818.    6413.    1770.     449.     526.     282.    1609.     240.   2100.10
     1.28     8.51    12.19     6.27     .075     .050     .075     .000  2098.00  9870.00
  .018494     560.     526.     524.        4        8        0      .00   271.00 10141.00


FLOW DISTRIBUTION FOR SECNO=      8.67          CWSEL=   2104.75

STA=    9870.    9896.    9917.    9937.    9953.   10053.   10075.   10115.   10141.
  PER Q=     10.1      9.8      7.1      4.9     53.4      5.2      8.3      1.3
   AREA=    138.1    131.0    104.5     75.0    526.2     91.1    151.5     39.5
    VEL=      8.7      9.0      8.1      7.8     12.2      6.8      6.6      3.8

*SECNO 8.745

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9760.0   10237.0  TYPE=     1  TARGET=     477.000
     [illegible]74     6.51  2111.31  2109.72  2111.12  2111.87      .56     4.99      .45  2107.10
     [illegible].    4338.    4235.    3427.     782.     607.     657.    1624.     244.   2105.50
     [illegible]29     5.55     6.98     5.22     .070     .055     .070     .000  2104.80  9760.00
  .009247     352.     412.     420.        2       19        0      .00   477.00 10237.00


FLOW DISTRIBUTION FOR SECNO=      8.74          CWSEL=   2111.31

STA=    9760.    9778.    9808.    9825.    9850.    9873.    9899.    9933.   10071.   10093.   10115.   10146.   10181.
  PER Q=      5.0      5.3      3.7      6.2      4.4      4.8      6.8     35.3      4.1      4.9      4.7      3.7
   AREA=    100.0    120.9     80.2    124.7     97.3    108.7    150.0    606.6     93.2    103.0    114.7    104.7
    VEL=      6.0      5.2      5.6      6.0      5.4      5.2      5.5      7.0      5.2      5.7      4.9      4.2
STA=   10181.   10211.   10230.   10237.
  PER Q=      5.2      5.3       .7
   AREA=    120.0    100.8     20.5
    VEL=      5.2      6.3      4.0

*SECNO 8.859

3301 HV CHANGED MORE THAN HVINS
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9824.0   10194.0  TYPE=     1  TARGET=     370.000
     8.86     5.50  2122.20  2122.20  2122.20  2123.88     1.68     9.95      .89  2119.50
   12000.    2773.    6597.    2631.     326.     555.     335.    1648.     250.   2119.30
     1.31     8.51    11.88     7.86     .070     .055     .070     .000  2116.70  9824.59
  .032158     700.     600.     620.        0       15        0      .00   369.41 10194.00


FLOW DISTRIBUTION FOR SECNO=      8.86          CWSEL=   2122.20

STA=    9825.    9862.    9885.    9918.    9932.   10075.   10093.   10110.   10127.   10144.   10179.   10194.
  PER Q=     11.3      6.4      3.6      1.8     55.0      3.5      3.7      5.1      3.6      3.6      2.5
   AREA=    140.9     83.7     68.3     32.9    555.1     53.7     53.9     64.4     52.8     69.7     40.3
    VEL=      9.6      9.1      6.4      6.5     11.9      7.7      8.2      9.4      8.1      6.3      7.4

*SECNO 8.958

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9872.0   10250.0  TYPE=     1  TARGET=     378.000
     M-5 TRIBUTARY, M-4 TRIBUTARY APPX RM. 8.878
     8.96     6.54  2133.24  2132.14  2133.25  2133.94      .69     9.67      .39  2129.20
    8130.    1021.    4995.    2113.     181.     643.     559.    1664.     254.   2129.90
     1.33     5.63     7.76     3.78     .065     .055     .085     .000  2126.70  9872.00
  .009925     484.     522.     568.        5        5        0      .00   378.00 10250.00


FLOW DISTRIBUTION FOR SECNO=      8.96          CWSEL=   2133.24

STA=    9872.    9904.    9915.    9927.   10058.   10084.   10113.   10124.   10137.   10160.   10186.   10227.   10250.
  PER Q=      4.4      4.5      3.7     61.4      4.1      4.2      3.2      3.9      3.3      3.1      3.5       .7
   AREA=     75.6     56.5     49.2    643.4     86.3     90.2     54.7     62.5     70.9     73.3     92.8     28.1
    VEL=      4.7      6.4      6.1      7.8      3.8      3.8      4.8      5.1      3.8      3.4      3.0      2.1

*SECNO 9.050

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
  Q        QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
  TI       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9880.0   10167.0  TYPE=     1  TARGET=     287.000
    9.05     5.06  2142.16  2142.16  2142.16  2143.76     1.60     7.37      .72  2140.10
   8130.       6.    7503.     621.       2.     716.     139.    1676.     258.   2141.10
    1.35     2.87    10.48     4.46     .065     .055     .075     .000  2137.10  9880.35
 .024965     476.     490.     516.        0       15        0      .00   286.65 10167.00


FLOW DISTRIBUTION FOR SECNO=      9.05          CWSEL=   2142.16

STA=    9880.    9882.   10068.   10085.   10103.   10119.   10129.   10143.   10158.   10167.
  PER Q=      .1     92.3       .3       .4      1.3      2.0      2.2      1.2       .2
   AREA=     2.0    715.9     10.7     12.7     25.5     27.2     32.4     23.3      7.4
    VEL=     2.9     10.5      2.3      2.5      4.3      5.8      5.5      4.2      2.7

*SECNO 9.146

3470 ENCROACHMENT STATIONS=    9949.0   10174.0  TYPE=     1  TARGET=     225.000
    9.15     5.63  2153.73  2153.03  2153.74  2154.99     1.26    11.09      .14  2149.00
   8130.    1516.    3687.    2928.     172.     359.     409.    1687.     261.   2149.20
    1.36     8.82    10.27     7.17     .065     .055     .075     .000  2148.10  9949.06
 .019310     488.     503.     528.        4        8        0      .00   224.94 10174.00


FLOW DISTRIBUTION FOR SECNO=      9.15          CWSEL=   2153.73

STA=    9949.    9962.    9977.    9988.   10067.   10080.   10094.   10113.   10131.   10161.   10174.
  PER Q=     4.3      8.4      5.9     45.3      5.4      7.4     11.2      6.0      4.4      1.7
   AREA=    46.2     73.5     52.2    359.0     58.0     73.7    104.7     71.3     71.9     29.0
    VEL=     7.7      9.3      9.1     10.3      7.5      8.1      8.7      6.8      5.0      4.7

*SECNO 9.244

3470 ENCROACHMENT STATIONS=    9903.0   10220.0  TYPE=     1  TARGET=     317.000
    9.24     5.41  2164.21  2163.63  2164.21  2165.20      .98    10.10      .11  2162.20
   8130.    1308.    3069.    3753.     228.     341.     489.    1699.     264.   2162.00
    1.38     5.75     9.01     7.68     .075     .055     .065     .000  2158.80  9903.00
 .020152     640.     518.     452.        3       15        0      .00   317.00 10220.00


FLOW DISTRIBUTION FOR SECNO=      9.24          CWSEL=   2164.21
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 [illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
 [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
 TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
 SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


STA=    9903.    9928.    9951.    9986.   10080.   10095.   10103.   10111.   10136.   10150.   10167.   10195.   10209.
  PER Q=     7.6      4.4      4.1     37.7      3.3      3.0      3.8      9.1      4.7      6.1     11.4      4.1
   AREA=    90.9     63.4     73.2    340.7     42.1     30.9     35.2     95.1     50.3     63.6    112.2     47.4
    VEL=     6.8      5.6      4.6      9.0      6.4      8.0      8.9      7.8      7.6      7.8      8.3      7.1
STA=   10209.   10220.
  PER Q=      .5
   AREA=    12.0
    VEL=     3.5

*SECNO 9.327

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9902.0   10093.0  TYPE=     1  TARGET=     191.000
     9.33     6.09  2173.39  2173.16  2173.40  2175.19     1.79     9.34      .65  2168.50
    8130.    1787.    5376.     967.     256.     463.      84.    1708.     267.   2168.30
     1.39     6.99    11.60    11.55     .075     .055     .055     .000  2167.30  9902.00
  .022708     464.     439.     416.        3        8        0      .00   191.00 10093.00


FLOW DISTRIBUTION FOR SECNO=      9.33          CWSEL=   2173.39

ST[illegible]9902.    9920.    9934.    9947.    9960.    9976.    9980.   10076.   10091.   10093.
  PER Q=     1.3      4.5      5.7      4.3      4.8      1.4     66.1     11.5       .4
   AREA=    26.3     51.7     56.3     49.0     57.3     15.0    463.5     76.3      7.4
    VEL=     3.9      7.0      8.2      7.2      6.9      7.6     11.6     12.2      4.7

*SECNO 9.403

3470 ENCROACHMENT STATIONS=    9867.0   10113.0  TYPE=     1  TARGET=     246.000
     9.40     5.72  2182.12  2181.66  2182.11  2183.46     1.34     8.09      .18  2178.30
    8130.    1513.    6602.      15.     294.     659.       5.    1716.     269.   2179.40
     1.41     5.15    10.01     2.87     .080     .055     .075     .000  2176.40  9867.00
  .017932     400.     402.     412.        3       15        0      .00   246.00 10113.00


FLOW DISTRIBUTION FOR SECNO=      9.40          CWSEL=   2182.12

STA=    9867.    9868.    9876.    9880.    9888.    9905.    9918.    9930.    9943.    9952.    9967.   10109.   10113.
  PER Q=      .0      1.3       .8      2.2      4.0      2.6      1.8      1.4      1.2      3.3     81.2       .2
   AREA=     1.3     22.6     12.4     30.6     57.4     39.6     31.6     27.7     21.8     48.7    659.4      5.3
    VEL=     1.4      4.8      5.4      5.8      5.6      5.2      4.7      4.2      4.4      5.5     10.0      2.9
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S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

*SECNO 9.502
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS= 9797.0 10099.0 TYPE= 1 TARGET= 302.000

9.50	4.47	2194.77	2194.77	2194.67	2196.29	1.52	12.39	.14	2191.70
8130.	3494.	3810.	826.	396.	330.	175.	1728.	272.	2192.60
1.42	8.82	11.53	4.71	.070	.055	.085	.000	2190.30	9797.25
.031589	540.	524.	568.	0	15	0	.00	301.75	10099.00

FLOW DISTRIBUTION FOR SECNO= 9.50 CWSEL= 2194.77

STA=	9797.	9820.	9835.	9847.	9860.	9877.	9889.	9901.	9911.	10000.	10049.	10084.	10099.
PER Q=	7.1	6.9	6.1	4.5	4.9	3.9	5.2	4.4	46.9	3.8	3.9	2.4	
AREA=	67.8	59.1	51.7	42.4	50.8	39.0	45.5	39.8	330.4	72.3	66.2	36.8	
VEL=	8.5	9.5	9.6	8.6	7.8	8.1	9.4	9.0	11.5	4.3	4.8	5.3	

*SECNO 9.592

3301 HV CHANGED MORE THAN HVINS

347[illegible]ROACHMENT STATIONS= 9831.0 10184.0 TYPE= 1 TARGET= 353.000

[illegible].59	4.47	2205.77	2205.16	2205.74	2206.66	.89	10.12	.25	2203.60
8130.	1665.	5983.	483.	306.	728.	97.	1739.	276.	2203.20
1.44	5.45	8.22	4.95	.070	.050	.075	.000	2201.30	9831.00
.014570	516.	474.	500.	2	15	0	.00	353.00	10184.00

FLOW DISTRIBUTION FOR SECNO= 9.59 CWSEL= 2205.77

STA=	9831.	9860.	9876.	9890.	9922.	9940.	10149.	10165.	10184.
PER Q=	6.2	5.6	3.2	3.6	1.9	73.6	3.2	2.7	
AREA=	86.4	68.4	44.8	68.8	37.2	727.5	50.4	47.1	
VEL=	5.8	6.7	5.7	4.3	4.1	8.2	5.2	4.7	

*SECNO 9.661

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

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          DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
          QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME   VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE   XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9918.0   10189.0  TYPE=     1  TARGET=     271.000
     9.66     5.23  2213.83  2213.83  2213.83  2215.48     1.65     6.65      .61  2210.20
    8130.      62.    5607.    2461.      17.     476.     418.    1748.     279.   2212.10
     1.45     3.69    11.79     5.89     .085     .050     .075     .000  2208.60  9918.00
  .022056     336.     365.     436.        0       11        0      .00   271.00 10189.00


FLOW DISTRIBUTION FOR SECNO=      9.66          CWSEL=   2213.83

STA=    9918.    9927.   10036.   10053.   10069.   10084.   10093.   10117.   10132.   10147.   10168.   10187.   10189.
  PER Q=      .8     69.0      1.6      2.0      2.0      1.6      5.9      4.8      4.5      4.0      3.8       .2
   AREA=    16.8    475.6     30.0     33.5     32.3     24.3     74.8     56.3     52.7     56.8     53.0      4.4
    VEL=     3.7     11.8      4.2      4.9      4.9      5.4      6.4      6.9      6.9      5.7      5.9      3.0

*SECNO 9.760
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9796.0   10109.0  TYPE=     1  TARGET=     313.000
     9.76     5.52  2225.92  2225.92  2225.91  2227.51     1.59    10.92      .03  2223.50
    8130.     581.    7540.       9.     154.     721.       4.    1759.     282.   2224.00
       [illegible]6     3.78    10.45     2.25     .075     .050     .085     .000  2220.40  9796.25
       [illegible]4     536.     520.     520.        0        8        0      .00   312.46 10108.71


FLOW DISTRIBUTION FOR SECNO=      9.76          CWSEL=   2225.92

STA=    9796.    9801.    9809.    9833.    9843.    9859.    9873.    9902.    9923.   10105.   10109.
  PER Q=      .1       .2       .3       .5       .2       .5      2.6      2.7     92.7       .1
   AREA=     4.4      6.2      9.8     12.2      8.3     14.6     51.6     46.8    721.4      3.9
    VEL=     2.4      2.5      2.6      3.2      1.8      2.8      4.1      4.8     10.5      2.3

*SECNO 9.868

3301 HV CHANGED MORE THAN HVINS


3470 ENCROACHMENT STATIONS=    9896.0   10265.0  TYPE=     1  TARGET=     369.000
     9.87     5.09  2237.89  2237.14  2237.79  2238.71      .82    10.89      .31  2235.10
    8130.    1071.    3341.    3719.     183.     362.     689.    1772.     287.   2235.40
     1.49     5.85     9.23     5.39     .075     .050     .085     .000  2232.80  9896.25
  .018449     596.     570.     548.        4       15        0      .00   368.75 10265.00
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
  [illegible]  QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=      9.87          CWSEL=   2237.89

STA=    9896.    9912.    9927.    9954.   10058.   10098.   10133.   10149.   10175.   10188.   10213.   10251.   10265.
  PER Q=     4.0      3.8      5.3     41.1      5.9      8.1      5.4      7.4      4.9      6.2      5.8      2.0
   AREA=    53.7     50.9     78.5    361.8    105.2    119.6     70.7    101.4     60.5     90.2    102.1     39.6
    VEL=     6.1      6.1      5.5      9.2      4.5      5.5      6.2      5.9      6.5      5.6      4.6      4.2

*SECNO 9.970

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9776.0   10152.0  TYPE=     1  TARGET=     376.000
        BOUNDARY SEC 5/6, T6N; R1W APPX RM. 9.900
     9.97     4.97  2249.47  2249.47  2249.41  2250.93     1.47    10.16      .52  2246.90
    8130.    2746.    4668.     715.     447.     394.     213.    1787.     292.   2247.80
     1.50     6.15    11.86     3.36     .070     .040     .085     .000  2244.50  9776.26
  .017885     528.     541.     620.        0        5        0      .00   375.74 10152.00


FLOW DISTRIBUTION FOR SECNO=      9.97          CWSEL=   2249.47

STA=    9776.    9809.    9849.    9877.    9891.    9905.    9923.   10029.   10084.   10136.   10152.
  PER Q=     4.4      9.4      9.5      4.2      3.3      3.0     57.4      3.0      3.9      1.9
   AREA=    71.7    125.8    109.1     50.6     44.6     45.0    393.6     81.2     92.2     39.7
    VEL=     4.9      6.1      7.1      6.7      5.9      5.4     11.9      3.0      3.4      3.8

*SECNO 10.064
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9864.0   10080.0  TYPE=     1  TARGET=     216.000
    10.06     5.72  2261.02  2261.02  2261.02  2262.91     1.90    10.97      .34  2256.40
    8130.     677.     7309.     144.     128.     635.      25.    1799.     296.   2255.70
     1.52     5.28    11.52     5.75     .075     .055     .070     .000  2255.30  9864.00
  .023944     596.     497.     787.        0        8        0      .00   215.52 10079.52


FLOW DISTRIBUTION FOR SECNO=     10.06          CWSEL=   2261.02

STA=    9864.    9886.    9911.    9922.    9932.   10070.   10080.
  PER Q=      .7      2.5      1.6      3.4     89.9      1.8
   AREA=    20.6     45.4     24.6     37.7    634.7     25.1
    VEL=     2.9      4.6      5.4      7.4     11.5      5.7
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 10.165

3470 ENCROACHMENT STATIONS=    9925.0   10159.0  TYPE=     1  TARGET=     234.000
       BOUNDARY SEC 6/31, T6N/T7N; R1W APPX RM. 10.112
    10.16     6.48  2272.68  2272.28  2272.67  2274.11     1.44    11.02      .18  2269.50
    8130.      40.    5337.    2754.      10.     486.     441.    1810.     299.   2270.60
     1.53     3.81    10.99     6.25     .075     .055     .070     .000  2266.20  9925.40
  .017239     480.     530.     632.        3        8        0      .00   233.32 10158.72


FLOW DISTRIBUTION FOR SECNO=     10.16          CWSEL=   2272.68

STA=    9925.    9932.   10020.   10048.   10082.   10103.   10118.   10132.   10147.   10159.
  PER Q=      .5     65.6      4.7      6.4      5.3      6.3      5.1      4.8      1.2
   AREA=    10.4    485.6     72.5     93.8     70.6     67.2     57.7     56.9     21.8
    VEL=     3.8     11.0      5.2      5.6      6.2      7.7      7.2      6.9      4.4

*SECNO 10.266

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9953.0   10168.0  TYPE=     1  TARGET=     215.000
    10.27     6.64  2282.44  2282.44  2282.44  2284.44     2.00     9.54      .45  2277.50
    8130.     114.    3952.    4063.      26.     274.     553.    1821.     301.   2278.20
     1.55     4.34    14.44     7.35     .080     .045     .070     .000  2275.80  9953.00
  .017973     548.     538.     548.        0        8        0      .00   215.00 10168.00


FLOW DISTRIBUTION FOR SECNO=     10.27          CWSEL=   2282.44

STA=    9953.    9963.   10009.   10028.   10045.   10061.   10077.   10088.   10092.   10112.   10137.   10168.
  PER Q=      1.4     48.6      6.7      6.3      6.9      9.7      7.6      2.2      6.2      3.6       .9
   AREA=    26.3    273.7     76.0     70.7     71.2     89.8     66.0     20.8     72.8     58.7     27.1
    VEL=     4.3     14.4      7.2      7.2      7.9      8.8      9.3      8.4      6.9      4.9      2.6

*SECNO 10.355
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9947.0   10134.0  TYPE=     1  TARGET=     187.000
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    -3 TRIBUTARY APPX RM. 10.332
        5.69  2292.69  2292.69  2292.68  2294.78     2.10     9.10      .08  2287.00
   8130.    21.    5784.    2325.      7.     444.     327.    1831.     304.   2287.70
    1.56   2.88    13.02     7.12    .080     .045     .070     .000  2287.00  9947.00
 .019576   456.     466.     516.       0       15        0      .00   187.00 10134.00


FLOW DISTRIBUTION FOR SECNO=     10.35          CWSEL=   2292.69

STA=    9947.    9950.   10043.   10060.   10070.   10090.   10111.   10128.   10134.
  PER Q=      .3     71.1      6.8      3.7      9.2      4.6      3.6       .6
   AREA=     7.3    444.3     71.1     40.0     92.4     60.6     50.2     12.2
    VEL=     2.9     13.0      7.8      7.6      8.1      6.1      5.9      4.2

*SECNO 10.445

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9856.0   10041.0  TYPE=     1  TARGET=     185.000
    10.44     6.08  2303.58  2303.58  2303.57  2305.17     1.59     9.15      .20  2297.70
    4820.    1703.    2598.     519.     355.     203.      68.    1839.     306.   2297.70
     1.57     4.79    12.79     7.60     .080     .050     .070     .000  2297.50  9856.00
  .017073     552.     478.     484.       0        8        0      .00   185.00 10041.00


FL     TRIBUTION FOR SECNO=     10.44          CWSEL=   2303.58

STA=    9856.    9865.    9894.    9911.    9945.    9968.    9986.    9991.   10025.   10035.   10041.
  PER Q=      .7      4.5      3.6      8.8      6.1      8.2      3.5     53.9      9.1      1.6
   AREA=    12.4     56.7     40.1     90.4     62.1     68.0     25.6    203.2     50.8     17.4
    VEL=     2.9      3.8      4.3      4.7      4.7      5.8      6.6     12.8      8.7      4.5

*SECNO 10.573
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9890.0   10072.0  TYPE=     1  TARGET=     182.000
    10.57     4.78  2320.18  2320.18  2320.18  2321.74     1.55    13.34      .02  2318.00
    4820.    1287.    2903.     629.     196.     245.     113.    1848.     309.   2317.40
     1.59     6.56    11.84     5.56     .075     .045     .080     .000  2315.40  9890.15
  .024224     628.     675.     680.       0       15        0      .00   181.75 10071.90


FLOW DISTRIBUTION FOR SECNO=     10.57          CWSEL=   2320.18

STA=    9890.    9893.    9910.    9924.    9936.    9957.   10027.   10051.   10060.   10072.
  PER Q=      .1      6.6      9.7      5.0      5.3     60.2      8.9      3.1      1.0
   AREA=     2.4     50.1     60.1     36.0     47.5    245.3     72.8     25.5     15.0
    VEL=     2.6      6.4      7.8      6.6      5.3     11.8      5.9      5.8      3.4
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[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
              QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME       VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE      XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 10.666
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9892.0   10082.0  TYPE=     1  TARGET=     190.000
    10.67     6.00  2333.20  2333.20  2333.19  2334.80     1.60     9.20      .04  2329.20
    4820.     770.    4012.      38.     205.     364.      12.    1854.     311.   2327.40
     1.61     3.75    11.01     3.15     .075     .045     .080     .000  2327.20  9892.05
  .014442     536.     493.     460.        0       11        0      .00   189.95 10082.00


FLOW DISTRIBUTION FOR SECNO=     10.67          CWSEL=   2333.20

STA=    9892.    9901.    9929.    9970.    9985.   10000.   10078.   10082.
  PER Q=       .7      5.2      4.4      1.7      4.0     83.2       .8
   AREA=     11.8     62.2     65.6     24.6     41.1    364.4     11.9
    VEL=      2.9      4.0      3.3      3.3      4.7     11.0      3.2

*SECNO 10.752
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

347[illegible]CROACHMENT STATIONS=    9919.0   10051.0  TYPE=     1  TARGET=     132.000
    [illegible]5     5.68  2342.68  2342.68  2342.67  2344.61     1.93     7.62      .26  2340.50
    4820.     312.    4488.      21.      76.     390.       8.    1860.     312.   2340.90
     1.62     4.11    11.49     2.43     .085     .050     .080     .000  2337.00  9919.17
  .020037     432.     453.     512.        0       11        0      .00   131.83 10051.00


FLOW DISTRIBUTION FOR SECNO=     10.75          CWSEL=   2342.68

STA=    9919.    9922.    9933.    9956.   10042.   10051.
  PER Q=       .0      1.5      4.9     93.1       .4
   AREA=      1.3     20.3     54.3    390.5      8.5
    VEL=      1.5      3.6      4.4     11.5      2.4

*SECNO 10.850
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9968.0   10064.0  TYPE=     1  TARGET=      96.000
    10.85     5.72  2354.62  2354.62  2354.59  2356.90     2.27    10.71      .28  2348.90
    4820.     185.    4468.     167.      34.     358.      32.    1865.     314.   2349.40
     1.63     5.41    12.48     5.24     .075     .050     .075     .000  2348.90  9968.04
  .021017     652.     515.     516.        0        5        0      .00    95.96 10064.00
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q[illegible]   QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     10.85          CWSEL=   2354.62

STA=    9968.    9980.   10052.   10064.
  PER Q=      3.8     92.7      3.5
   AREA=     34.2    358.0     31.9
    VEL=      5.4     12.5      5.2

*SECNO 10.949
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9921.0   10038.0  TYPE=     1  TARGET=     117.000
    10.95     7.47  2369.17  2369.17  2368.94  2371.26     2.09     9.89      .08  2361.70
    4820.    1927.    2561.     332.     305.     173.      57.    1871.     315.   2361.70
     1.64     6.32    14.78     5.84     .075     .050     .075     .000  2361.70  9921.00
  .016932     528.     524.     540.        0       17        0      .00   117.00 10038.00


FLOW DISTRIBUTION FOR SECNO=     10.95          CWSEL=   2369.17

STA=    9921.   10000.   10023.   10038.
  PER Q=     40.0     53.1      6.9
[illegible]  305.1    173.3     56.9
            6.3     14.8      5.8

*SECNO 11.045

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9948.0   10026.0  TYPE=     1  TARGET=      78.000
    11.05     7.79  2379.89  2379.89  2379.88  2382.58     2.69     9.67      .48  2375.80
    4820.     763.    3902.     155.     112.     273.      28.    1876.     316.   2372.50
     1.66     6.79    14.27     5.50     .075     .055     .075     .000  2372.10  9948.00
  .020937     540.     507.     488.        0        8        0      .00    77.75 10025.75


FLOW DISTRIBUTION FOR SECNO=     11.05          CWSEL=   2379.89

STA=    9948.    9954.    9980.   10018.   10026.
  PER Q=       .9     14.9     80.9      3.2
   AREA=     10.8    101.6    273.5     28.3
    VEL=      3.9      7.1     14.3      5.5
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  SECNO    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
           QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
  TWA      VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN       SSTA
  SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID      ENDST


*SECNO 11.147
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9949.0   10048.0  TYPE=     1  TARGET=      99.000
    11.15     5.88  2394.98  2394.98  2394.96  2397.19     2.22    14.21      .19  2391.00
    4820.     501.    4190.     128.      73.     334.      23.    1882.     317.   2389.60
     1.67     6.91    12.55     5.66     .085     .065     .085     .000  2389.10  9949.33
  .034562     532.     538.     520.        0       15        0      .00    98.67 10048.00


FLOW DISTRIBUTION FOR SECNO=     11.15          CWSEL=   2394.98

STA=    9949.    9958.    9975.   10040.   10048.
  PER Q=      1.2      9.2     86.9      2.7
   AREA=     13.3     59.3    333.8     22.7
    VEL=      4.2      7.5     12.6      5.7

*SECNO 11.266

3470 ENCROACHMENT STATIONS=    9974.0   10062.0  TYPE=     1  TARGET=      88.000
    11.27     7.87  2412.37  2411.59  2412.40  2414.17     1.80    16.81      .17  2406.10
    4820.     108.    3420.    1292.      21.     287.     177.    1888.     319.   2407.30
     1.[illegible]8     5.15    11.93     7.28     .085     .065     .085     .000  2404.50  9974.00
  .0[illegible]874     520.     631.     600.        4       11        0      .00    87.92 10061.92


FLOW DISTRIBUTION FOR SECNO=     11.27          CWSEL=   2412.37

STA=    9974.    9976.    9980.   10023.   10037.   10053.   10062.
  PER Q=       .1      2.1     71.0     10.8     13.8      2.3
   AREA=      2.8     18.2    286.6     68.0     85.2     24.2
    VEL=      2.3      5.6     11.9      7.6      7.8      4.5

*SECNO 11.352

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9938.0   10025.0  TYPE=     1  TARGET=      87.000
    11.35     7.15  2425.15  2425.15  2425.16  2427.58     2.43    12.35      .50  2422.90
    4820.     991.    3801.      28.     119.     283.       7.    1893.     320.   2419.80
     1.69     8.34    13.41     3.84     .085     .065     .085     .000  2418.00  9938.00
  .037045     350.     453.     455.        0       11        0      .00    87.00 10025.00
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   S[illegible]    DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   Q[illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME     VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE    XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


FLOW DISTRIBUTION FOR SECNO=     11.35          CWSEL=   2425.15

STA=    9938.    9946.    9953.    9955.    9963.    9970.   10023.   10025.
  PER Q=      1.4      4.0      1.2      9.8      4.3     78.9       .6
   AREA=     14.1     24.9      8.4     45.0     26.6    283.4      7.2
    VEL=      4.7      7.7      6.7     10.5      7.7     13.4      3.8

*SECNO 11.431

3470 ENCROACHMENT STATIONS=    9939.0   10024.0  TYPE=     1  TARGET=      85.000
    11.43     5.59  2439.19  2438.88  2439.18  2441.26     2.08    13.55      .14  2433.60
    4820.    2380.    2237.     203.     198.     197.      28.    1897.     320.   2433.60
     1.71    12.03    11.36     7.36     .060     .065     .060     .000  2433.60  9939.28
  .026106     480.     419.     360.        3       15        0      .00    84.72 10024.00


FLOW DISTRIBUTION FOR SECNO=     11.43          CWSEL=   2439.19

STA=    9939.    9946.    9978.   10015.   10024.
  PER Q=      2.7     46.7     46.4      4.2
   AREA=     19.4    178.4    196.9     27.6
    VEL=      6.7     12.6     11.4      7.4

*SE[illegible]1.527
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9952.0   10062.0  TYPE=     1  TARGET=     110.000
        BOUNDARY SEC COR. 25/26/30, T7N; R1W/R2W APPX RM. 11.515
        M-2 TRIBUTARY APPX RM. 11.479
    11.53     5.13  2451.53  2451.53  2451.54  2453.54     2.01    11.33      .03100000.00
    4820.       0.    3564.    1256.       0.     289.     157.    1902.     321.   2447.00
     1.72      .00    12.34     8.03     .060     .045     .060     .000  2446.40  9952.20
  .019604     515.     503.     485.        0       11        0      .00   109.80 10062.00


FLOW DISTRIBUTION FOR SECNO=     11.53          CWSEL=   2451.53

STA=    9952.   10017.   10024.   10057.   10062.
  PER Q=     73.9      5.4     19.9       .8
   AREA=    288.7     29.8    118.0      8.7
    VEL=     12.3      8.7      8.1      4.5
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS   BANK ELEV
   [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA   LEFT/RIGHT
   TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


*SECNO 11.636
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9942.0   10026.0  TYPE=     1  TARGET=      84.000
    11.64     6.03  2467.03  2467.03  2467.06  2469.50     2.47    10.25      .37  2462.40
    4820.     842.    3858.     120.     108.     284.      22.    1907.     323.   2461.00
     1.73     7.79    13.59     5.52     .060     .045     .060     .000  2461.00  9942.00
  .016199     585.     577.     570.        0       11        0      .00    84.00 10026.00


FLOW DISTRIBUTION FOR SECNO=     11.64          CWSEL=   2467.03

STA=    9942.    9944.    9947.    9970.   10019.   10026.
  PER Q=       .2      1.3     16.0     80.0      2.5
   AREA=      3.4      8.9     95.9    283.9     21.6
    VEL=      3.0      6.9      8.0     13.6      5.5

*SECNO 11.712

3301 HV CHANGED MORE THAN HVINS

347[illegible]ROACHMENT STATIONS=    9969.0   10092.0  TYPE=     1  TARGET=     123.000
    11.71     6.00  2476.50  2476.16  2476.47  2478.13     1.63     8.29      .34  2472.10
    4820.     381.    2266.    2173.      49.     182.     277.    1912.     324.   2472.40
     1.74     7.74    12.43     7.85     .060     .055     .085     .000  2470.50  9969.00
  .027807     370.     398.     412.        2       11        0      .00   123.00 10092.00


FLOW DISTRIBUTION FOR SECNO=     11.71          CWSEL=   2476.50

STA=    9969.    9979.    9989.   10028.   10045.   10055.   10062.   10084.   10092.
  PER Q=      2.1      5.8     47.0      8.3      5.3      6.0     22.9      2.6
   AREA=     17.9     31.3    182.3     59.2     36.6     35.7    121.5     23.8
    VEL=      5.6      9.0     12.4      6.8      6.9      8.2      9.1      5.3

*SECNO 11.813

3301 HV CHANGED MORE THAN HVINS

7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED
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   S[illegible]   DEPTH    CWSEL    CRIWS    WSELK    EG       HV       HL       OLOSS    BANK ELEV
   [illegible]    QLOB     QCH      QROB     ALOB     ACH      AROB     VOL      TWA    LEFT/RIGHT
   TIME           VLOB     VCH      VROB     XNL      XNCH     XNR      WTN      ELMIN      SSTA
   SLOPE          XLOBL    XLCH     XLOBR    ITRIAL   IDC      ICONT    CORAR    TOPWID     ENDST


3470 ENCROACHMENT STATIONS=    9956.0   10029.0  TYPE=     1  TARGET=      73.000
    11.81     6.89  2492.09  2492.09  2492.09  2494.82     2.73    13.69      .88  2485.40
    4820.    1303.    3298.     219.     120.     229.      35.    1917.     325.   2485.90
     1.75    10.82    14.42     6.23     .060     .055     .070     .000  2485.20  9956.50
  .022715     510.     538.     590.        0        8        0      .00    72.16 10028.67


FLOW DISTRIBUTION FOR SECNO=     11.81          CWSEL=   2492.09

STA=    9957.    9965.    9983.   10017.   10029.
  PER Q=      2.5     24.5     68.4      4.6
   AREA=     20.0    100.4    228.7     35.2
    VEL=      6.0     11.8     14.4      6.2

*SECNO 11.914
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9942.0   10041.0  TYPE=     1  TARGET=      99.000
    11.91     6.89  2505.29  2505.29  2505.27  2507.68     2.39     9.81      .14  2500.80
    4820.     529.    4153.     137.     102.     314.      30.    1922.     326.   2500.30
    [illegible]77     5.18    13.21     4.58     .080     .045     .070     .000  2498.40  9942.08
    [illegible]2      531.     531.     535.        0        5        0      .00    98.55 10040.63


FLOW DISTRIBUTION FOR SECNO=     11.91          CWSEL=   2505.29

STA=    9942.    9947.    9965.    9976.   10029.   10041.
  PER Q=       .2      4.9      5.9     86.2      2.9
   AREA=      4.1     51.4     46.7    314.4     30.0
    VEL=      2.0      4.6      6.1     13.2      4.6

*SECNO 12.018
7185 MINIMUM SPECIFIC ENERGY
3720 CRITICAL DEPTH ASSUMED

3470 ENCROACHMENT STATIONS=    9922.0   10049.0  TYPE=     1  TARGET=     127.000
    12.02     5.38  2519.88  2519.88  2519.85  2521.80     1.92    10.84      .19  2516.10
    4820.     763.    3649.     408.     119.     297.      70.    1928.     327.   2514.50
     1.78     6.42    12.28     5.84     .085     .055     .080     .000  2514.50  9922.29
  .026842     535.     546.     560.        0       15        0      .00   126.71 10049.00
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S[illegible]	DEPTH	CWSEL	CRIWS	WSELK	EG	HV	HL	OLOSS	BANK ELEV
Q[illegible]	QLOB	QCH	QROB	ALOB	ACH	AROB	VOL	TWA	LEFT/RIGHT
TIME	VLOB	VCH	VROB	XNL	XNCH	XNR	WTN	ELMIN	SSTA
SLOPE	XLOBL	XLCH	XLOBR	ITRIAL	IDC	ICONT	CORAR	TOPWID	ENDST

FLOW DISTRIBUTION FOR SECNO= 12.02 CWSEL= 2519.88

STA=	9922.	9931.	9959.	10023.	10049.
PER Q=	1.2	14.6	75.7	8.5	
AREA=	14.7	104.2	297.2	69.8	
VEL=	3.9	6.8	12.3	5.8	

THIS RUN EXECUTED 02-23-90

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  HEC2 RELEASE DATED NOV 76 UPDATED MAY  1984
  ERROR CORR -  01,02,03,04,05,06
  MODIFICATION -  50,51,52,53,54,55,56
  IBM-PC-XT VERSION AUGUST 1985
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NOTE- ASTERISK (*) AT LEFT OF CROSS-SECTION NUMBER INDICATES MESSAGE IN SUMMARY OF ERRORS LIST

MORGAN CITY WASH

SUMMARY PRINTOUT TABLE 110

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.141	1420.10	.00	1420.42	374.89	5853.32	4222.62	4324.07	.00	.00	9979.90	10009.40	.00
	.141	1420.10	.00	1420.56	244.00	4751.06	4766.71	4882.23	244.00	9898.00	9979.90	10009.40	10142.00
*	.161	1421.42	.00	1421.94	380.47	2850.52	6033.06	5516.42	.00	.00	9978.80	10021.30	.00
*	.161	1421.42	.00	1422.02	293.00	2984.61	6316.79	5098.61	293.00	9872.00	9978.80	10021.30	10165.00
*	.177	1426.54	.00	1426.86	410.33	2315.40	5909.28	6175.33	.00	.00	9978.80	10021.30	.00
*	.177	1426.41	-.14	1426.86	281.30	2566.33	6671.28	5162.38	282.00	9868.00	9978.80	10021.30	10150.00
	.187	1426.60	.00	1426.96	229.04	4164.42	9351.22	884.36	.00	.00	9989.50	10069.00	.00
	.187	1426.62	.02	1426.98	229.18	4166.12	9348.52	885.36	230.00	9884.00	9989.50	10069.00	10114.00
	.278	1427.55	.00	1429.39	114.28	991.06	12974.67	434.27	.00	.00	9965.00	10046.50	.00
	.278	1427.56	.01	1429.40	113.87	991.47	12973.03	435.49	114.00	9950.00	9965.00	10046.50	10064.00
	.375	1439.95	.00	1443.43	102.10	4544.18	6731.10	3124.71	.00	.00	9965.60	9990.70	.00
	.375	1439.95	-.01	1443.43	102.05	4542.65	6732.58	3124.77	116.00	9909.00	9965.60	9990.70	10025.00
	.460	1448.18	.00	1448.49	305.67	376.71	13952.01	71.28	.00	.00	9978.10	10240.50	.00
	.460	1448.18	.00	1448.49	305.57	376.72	13951.79	71.49	306.00	9953.00	9978.10	10240.50	10259.00
	.548	1451.67	.00	1453.42	186.12	47.08	14269.34	83.57	.00	.00	9958.30	10128.70	.00
	.548	1451.67	.00	1453.41	185.71	48.04	14268.25	83.70	186.00	9951.00	9958.30	10128.70	10137.00
	.643	1462.07	.00	1463.03	191.59	131.42	14045.11	223.47	.00	.00	9904.40	10066.80	.00
	.643	1462.06	-.01	1463.02	191.58	131.34	14045.27	223.39	192.00	9889.00	9904.40	10066.80	10081.00
	.711	1466.56	.00	1467.56	237.74	8.68	12958.93	1432.39	.00	.00	9913.90	10057.60	.00
	.711	1466.56	.00	1467.56	237.62	8.68	12960.96	1430.35	238.00	9910.00	9913.90	10057.60	10148.00
	.806	1473.26	.00	1474.55	175.12	456.36	13344.40	599.24	.00	.00	9966.40	10077.20	.00
	.806	1473.26	.00	1474.55	174.99	458.03	13342.26	599.71	175.00	9936.00	9966.40	10077.20	10111.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	.950	1479.03	.00	1480.52	285.29	379.42	13921.03	99.55	.00	.00	9893.70	10120.40	.00
	.950	1479.03	.00	1480.53	285.00	380.10	13920.45	99.45	285.00	9852.00	9893.70	10120.40	10137.00
*	1.010	1483.42	.00	1486.11	221.59	39.59	14355.58	4.84	.00	.00	9834.20	10038.60	.00
*	1.010	1483.43	.01	1486.11	221.41	40.23	14354.90	4.87	222.00	9820.00	9834.20	10038.60	10042.00
*	1.110	1491.76	.00	1495.88	129.63	74.15	13708.69	617.17	.00	.00	9961.90	10054.50	.00
*	1.110	1491.76	.01	1495.88	129.00	74.55	13707.42	618.03	129.00	9956.00	9961.90	10054.50	10085.00
*	1.210	1498.22	.00	1503.10	104.51	1946.00	12303.13	150.87	.00	.00	9959.30	10018.70	.00
*	1.210	1498.24	.02	1503.10	104.00	1948.27	12300.32	151.41	104.00	9923.00	9959.30	10018.70	10027.00
*	1.300	1505.29	.00	1510.21	137.19	210.14	10925.32	3264.55	.00	.00	9976.20	10017.00	.00
*	1.300	1505.31	.02	1510.21	136.87	210.40	10919.58	3270.02	137.00	9969.00	9976.20	10017.00	10106.00
	1.384	1511.47	.00	1513.39	208.17	3469.73	9820.96	1109.31	.00	.00	9968.50	10024.00	.00
	1.384	1511.45	-.02	1513.38	208.05	3464.64	9827.03	1108.33	209.00	9853.00	9968.50	10024.00	10062.00
*	1.477	1515.58	.00	1520.37	113.27	829.40	11317.39	2253.20	.00	.00	9969.30	10019.50	.00
*	1.477	1515.58	.00	1520.37	113.27	829.64	11316.76	2253.60	114.00	9948.00	9969.30	10019.50	10062.00
	1.574	1521.97	.00	1524.99	154.51	2011.94	11756.69	631.37	.00	.00	9964.60	10038.80	.00
	1.574	1521.97	-.01	1524.99	154.48	2011.46	11757.42	631.12	155.00	9905.00	9964.60	10038.80	10060.00
	1.658	1525.74	.00	1529.31	146.63	272.90	12678.48	1448.62	.00	.00	9961.50	10054.10	.00
	1.658	1525.74	.00	1529.31	146.63	272.89	12678.62	1448.49	147.00	9952.00	9961.50	10054.10	10099.00
	.750	1532.74	.00	1534.93	207.66	4501.55	9111.59	786.86	.00	.00	9953.00	10044.50	.00
	1.750	1532.74	.00	1534.92	207.67	4501.42	9111.55	787.03	208.00	9866.00	9953.00	10044.50	10074.00
*	1.831	1541.96	.00	1546.42	123.57	1567.21	11383.43	1449.37	.00	.00	9987.00	10038.50	.00
*	1.831	1542.00	.04	1546.41	123.00	1573.08	11371.62	1455.30	123.00	9945.00	9987.00	10038.50	10068.00
*	1.926	1551.30	.00	1556.29	110.66	2064.08	11883.75	452.17	.00	.00	9983.90	10026.20	.00
*	1.926	1551.31	.00	1556.29	110.41	2064.63	11883.12	452.25	111.00	9927.00	9983.90	10026.20	10038.00
	2.014	1557.33	.00	1561.46	104.90	2895.90	9393.24	2110.86	.00	.00	9967.10	10005.80	.00
	2.014	1557.33	.00	1561.45	104.70	2896.34	9392.41	2111.26	107.00	9925.00	9967.10	10005.80	10032.00
	2.114	1564.11	.00	1566.40	146.59	1569.11	11626.21	1204.68	.00	.00	9969.10	10043.90	.00
	2.114	1564.10	-.01	1566.39	146.00	1568.58	11626.57	1204.85	146.00	9932.00	9969.10	10043.90	10078.00
	2.209	1567.94	.00	1571.50	147.17	2094.83	12043.61	261.55	.00	.00	9950.10	10025.70	.00
	2.209	1567.94	.00	1571.50	146.83	2094.74	12043.78	261.49	147.00	9888.00	9950.10	10025.70	10035.00
	2.287	1573.13	.00	1576.10	151.60	513.02	12045.22	1841.77	.00	.00	9956.70	10038.70	.00
	2.287	1573.14	.00	1576.09	151.60	513.78	12042.25	1843.97	152.00	9937.00	9956.70	10038.70	10089.00
	2.391	1579.31	.00	1581.93	242.92	1367.48	9772.08	3260.43	.00	.00	9974.50	10049.50	.00
	2.391	1579.28	-.02	1581.92	242.56	1363.26	9779.30	3257.43	243.00	9901.00	9974.50	10049.50	10144.00

	NO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	2.476	1586.91	.00	1590.44	161.44	3330.85	10420.18	648.97	.00	.00	9974.00	10030.50	.00
*	2.476	1586.91	.01	1590.44	161.49	3332.84	10417.80	649.36	162.00	9890.00	9974.00	10030.50	10052.00
*	2.577	1593.40	.00	1597.89	109.42	561.42	13670.53	168.06	.00	.00	9987.90	10067.10	.00
*	2.577	1593.45	.05	1597.89	109.00	566.92	13660.83	172.25	109.00	9971.00	9987.90	10067.10	10080.00
	2.679	1602.84	.00	1604.11	245.52	5446.94	7722.45	1230.61	.00	.00	9974.60	10047.80	.00
	2.679	1602.80	-.04	1604.08	244.91	5450.42	7728.16	1221.42	245.00	9884.00	9974.60	10047.80	10129.00
*	2.764	1607.74	.00	1611.14	156.69	3560.99	8045.56	2593.45	.00	.00	9975.70	10030.40	.00
*	2.764	1607.74	.01	1611.14	156.52	3562.41	8043.96	2593.62	157.00	9911.00	9975.70	10030.40	10068.00
*	2.882	1618.00	.00	1621.51	185.12	938.67	11328.83	1932.50	211.00	9899.00	9979.50	10046.70	10110.00
*	2.882	1618.00	.00	1621.50	185.15	939.72	11327.26	1933.01	198.00	9899.00	9979.50	10046.70	10097.00
*	2.963	1624.77	.00	1628.58	156.58	530.46	12910.58	758.96	.00	.00	9950.90	10029.70	.00
*	2.963	1624.76	-.01	1628.58	156.00	530.09	12911.91	758.00	156.00	9909.00	9950.90	10029.70	10065.00
	3.058	1631.19	.00	1634.29	155.52	2055.48	7590.70	4553.82	.00	.00	9974.70	10019.50	.00
	3.058	1631.21	.01	1634.29	155.00	2058.57	7585.83	4555.60	155.00	9930.00	9974.70	10019.50	10085.00
*	3.127	1637.69	.00	1640.92	190.81	1204.20	10872.18	2123.61	.00	.00	9985.30	10053.70	.00
*	3.127	1637.69	.00	1640.91	190.00	1204.17	10872.68	2123.15	190.00	9940.00	9985.30	10053.70	10130.00
	3.219	1643.96	.00	1645.21	253.65	3204.79	9893.59	1101.62	.00	.00	9959.20	10050.50	.00
	3.219	1643.96	.00	1645.21	253.00	3205.25	9893.06	1101.69	253.00	9828.00	9959.20	10050.50	10081.00
*	.303	1647.70	.00	1650.35	261.61	1909.49	7289.02	5001.50	262.00	9898.00	9990.00	10042.20	10160.00
*	3.303	1647.70	.00	1650.35	261.60	1909.10	7289.51	5001.38	262.00	9898.00	9990.00	10042.20	10160.00
*	3.400	1657.20	.00	1660.85	205.37	1323.23	11359.61	1517.15	.00	.00	9967.70	10031.70	.00
*	3.400	1657.01	-.18	1660.87	168.00	1325.01	11439.63	1435.35	168.00	9947.00	9967.70	10031.70	10115.00
	3.473	1662.23	.00	1663.59	185.19	572.88	12883.23	743.90	.00	.00	9962.20	10084.50	.00
	3.473	1662.39	.16	1663.71	185.00	583.67	12861.45	754.88	185.00	9932.00	9962.20	10084.50	10117.00
*	3.492	1670.37	.00	1674.98	128.31	861.70	12803.93	534.37	.00	.00	9979.50	10020.50	.00
*	3.492	1670.44	.07	1674.98	128.81	882.53	12770.19	547.28	130.00	9925.00	9979.50	10020.50	10055.00
*	3.520	1686.41	.00	1686.49	455.33	4532.60	4405.96	5261.44	.00	.00	9979.50	10020.50	.00
*	3.520	1686.43	.01	1686.51	370.00	4578.58	4481.80	5139.63	370.00	9765.00	9979.50	10020.50	10135.00
	3.537	1686.40	.00	1686.59	364.43	3545.19	6449.38	4205.42	.00	.00	9974.20	10020.40	.00
	3.537	1686.41	.01	1686.62	275.00	3272.33	6616.91	4310.76	275.00	9865.00	9974.20	10020.40	10140.00
	3.569	1686.56	.00	1686.66	447.84	2519.97	7862.15	3817.88	.00	.00	9936.90	10031.50	.00
	3.569	1686.57	.01	1686.69	305.00	2552.77	8366.84	3280.39	305.00	9840.00	9936.90	10031.50	10145.00
	3.673	1686.71	.00	1686.74	778.41	4184.33	5101.90	4613.77	.00	.00	9949.00	10100.20	.00
	3.673	1686.75	.04	1686.78	734.00	4221.40	5138.83	4539.77	734.00	9591.00	9949.00	10100.20	10325.00

	CNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	3.764	1686.80	.00	1687.08	657.51	2048.37	8013.92	3837.71	.00	.00	9960.10	10151.30	.00
	3.764	1686.83	.03	1687.16	535.00	1284.48	8524.01	4091.51	535.00	9825.00	9960.10	10151.30	10360.00
*	3.862	1691.15	.00	1692.93	400.21	28.26	6796.36	7075.38	.00	.00	9957.70	10039.50	.00
*	3.862	1691.19	.05	1693.07	368.44	29.68	6952.92	6917.40	369.00	9952.00	9957.70	10039.50	10321.00
	3.946	1699.41	.00	1700.40	388.19	3309.51	10372.63	217.86	.00	.00	9933.20	10163.20	.00
	3.946	1699.48	.07	1700.44	387.93	3317.58	10360.41	222.01	388.00	9798.00	9933.20	10163.20	10186.00
	4.049	1707.06	.00	1708.92	391.66	4637.55	8930.17	332.28	.00	.00	9895.60	10014.00	.00
	4.049	1707.01	-.05	1708.93	351.30	4593.93	8973.95	332.11	352.00	9680.00	9895.60	10014.00	10032.00
	4.149	1715.80	.00	1718.09	259.36	5649.72	7902.78	347.50	.00	.00	9950.10	10016.60	.00
	4.149	1715.83	.03	1718.09	259.77	5654.97	7892.65	352.38	260.00	9805.00	9950.10	10016.60	10065.00
	4.254	1723.34	.00	1725.45	364.05	155.79	11141.04	2603.17	.00	.00	9945.00	10090.90	.00
*	4.254	1723.33	-.02	1725.59	328.00	159.07	11389.29	2351.64	328.00	9938.00	9945.00	10090.90	10266.00
	4.344	1730.01	.00	1732.60	273.44	2902.88	9006.96	1990.15	.00	.00	9978.30	10071.40	.00
	4.344	1730.10	.09	1732.69	251.17	2928.87	9102.35	1868.78	252.00	9924.00	9978.30	10071.40	10176.00
	4.437	1737.84	.00	1740.82	184.99	3050.05	8645.51	2204.44	.00	.00	9953.70	10031.80	.00
	4.437	1737.83	-.01	1740.81	184.77	3050.98	8645.26	2203.76	185.00	9898.00	9953.70	10031.80	10083.00
*	4.540	1748.11	.00	1751.06	238.81	712.00	10211.06	2976.94	.00	.00	9972.70	10043.60	.00
*	4.540	1748.12	.01	1751.06	238.89	712.49	10206.97	2980.53	240.00	9950.00	9972.70	10043.60	10190.00
	.634	1754.61	.00	1756.76	288.97	20.33	13647.60	232.07	.00	.00	9848.40	10050.20	.00
	4.634	1754.60	-.01	1756.76	288.79	20.17	13649.86	229.97	289.00	9841.00	9848.40	10050.20	10130.00
*	4.727	1763.62	.00	1766.96	180.53	152.88	11527.47	2219.65	.00	.00	9942.80	10026.30	.00
*	4.727	1763.62	.00	1766.96	180.55	153.01	11526.36	2220.63	181.00	9930.00	9942.80	10026.30	10111.00
*	4.825	1772.30	.00	1775.44	230.54	2069.74	11620.87	209.39	.00	.00	9947.10	10026.50	.00
*	4.825	1772.31	.01	1775.44	230.38	2073.08	11616.55	210.36	231.00	9806.00	9947.10	10026.50	10037.00
*	4.918	1780.01	.00	1783.34	204.39	167.32	11168.57	2564.11	.00	.00	9963.90	10027.90	.00
*	4.918	1780.01	.00	1783.34	204.23	167.64	11167.81	2564.55	205.00	9956.00	9963.90	10027.90	10161.00
*	5.044	1788.33	.00	1791.24	260.89	3504.83	10020.56	374.61	.00	.00	9949.60	10015.60	.00
*	5.044	1788.34	.01	1791.24	261.04	3511.94	10013.33	374.73	262.00	9770.00	9949.60	10015.60	10032.00
*	5.156	1797.65	.00	1800.54	210.29	219.77	10338.58	3341.65	.00	.00	9984.10	10067.20	.00
*	5.156	1797.66	.00	1800.54	210.32	219.82	10337.19	3342.99	212.00	9973.00	9984.10	10067.20	10185.00
	5.250	1805.98	.00	1807.88	227.91	6446.17	6241.77	1212.06	.00	.00	9972.60	10026.80	.00
	5.250	1805.98	.00	1807.88	227.87	6445.69	6242.87	1211.44	228.00	9855.00	9972.60	10026.80	10083.00
*	5.334	1814.16	.00	1818.17	125.67	4633.20	8867.63	399.17	.00	.00	9970.20	10012.90	.00
*	5.334	1814.16	.00	1818.17	125.68	4633.41	8867.36	399.22	127.00	9902.00	9970.20	10012.90	10029.00

	CNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	5.434	1822.20	.00	1826.01	145.67	370.05	10812.36	2717.58	.00	.00	9965.30	10033.20	.00
*	5.434	1822.22	.02	1826.01	145.78	371.44	10807.54	2721.02	147.00	9946.00	9965.30	10033.20	10093.00
	5.529	1829.69	.00	1832.73	152.63	6744.40	6363.25	792.34	.00	.00	9987.90	10026.20	.00
	5.529	1829.64	-.04	1832.72	152.50	6741.63	6368.29	790.07	153.00	9896.00	9987.90	10026.20	10049.00
	5.625	1837.30	.00	1839.07	255.54	429.22	10026.15	3444.63	.00	.00	9951.00	10063.20	.00
	5.625	1837.32	.02	1839.08	255.61	430.48	10020.83	3448.69	256.00	9928.00	9951.00	10063.20	10184.00
	5.726	1843.41	.00	1845.37	295.44	5659.68	6551.67	1688.65	.00	.00	9961.30	10025.40	.00
	5.726	1843.41	.00	1845.37	295.38	5659.83	6554.91	1685.26	296.00	9830.00	9961.30	10025.40	10126.00
*	5.808	1852.26	.00	1855.95	155.59	5305.83	8297.49	296.68	.00	.00	9970.20	10015.30	.00
*	5.808	1852.26	.00	1855.95	155.46	5306.27	8296.78	296.95	156.00	9871.00	9970.20	10015.30	10027.00
*	5.905	1858.73	.00	1862.37	123.01	8.67	11893.53	397.80	.00	.00	9965.60	10065.70	.00
*	5.905	1858.74	.01	1862.37	122.76	8.78	11891.46	399.75	123.00	9962.00	9965.60	10065.70	10085.00
	6.010	1866.92	.00	1867.63	413.74	5242.94	5080.70	1976.36	.00	.00	9968.30	10052.20	.00
	6.010	1866.91	-.01	1867.63	413.00	5241.90	5081.98	1976.12	413.00	9726.00	9968.30	10052.20	10139.00
*	6.094	1873.70	.00	1876.90	165.50	1589.56	8516.13	2194.31	.00	.00	9972.50	10041.10	.00
*	6.094	1873.74	.04	1876.90	165.00	1593.19	8505.84	2200.97	165.00	9923.00	9972.50	10041.10	10088.00
*	6.143	1878.89	.00	1882.50	126.89	235.81	10476.85	1587.33	.00	.00	9987.30	10066.20	.00
*	6.143	1878.89	.01	1882.50	126.64	235.93	10475.29	1588.79	127.00	9976.00	9987.30	10066.20	10103.00
	6.231	1886.41	.00	1886.92	333.62	2314.99	3947.88	5737.13	.00	.00	9963.00	10030.80	.00
	6.231	1886.40	.00	1886.91	333.61	2315.01	3947.97	5737.03	334.00	9892.00	9963.00	10030.80	10226.00
*	6.323	1892.36	.00	1895.01	189.11	75.18	3804.26	8120.56	.00	.00	9987.60	10019.90	.00
*	6.323	1892.36	.00	1895.01	188.64	75.19	3803.66	8121.15	189.00	9982.00	9987.60	10019.90	10171.00
*	6.391	1900.43	.00	1904.72	96.24	1886.45	9655.49	458.06	.00	.00	9994.00	10044.70	.00
*	6.391	1900.44	.01	1904.72	95.84	1887.85	9653.74	458.41	96.00	9962.00	9994.00	10044.70	10058.00
	6.450	1907.38	.00	1907.73	344.08	165.53	4191.40	7643.07	.00	.00	9973.60	10024.70	.00
	6.450	1907.48	.09	1908.01	238.89	197.07	4945.38	6857.54	239.00	9961.00	9973.60	10024.70	10200.00
*	6.514	1909.84	.00	1912.65	204.52	35.97	4860.34	7103.68	.00	.00	9980.00	10015.90	.00
*	6.514	1909.85	.01	1912.81	183.71	36.70	4941.23	7022.07	184.00	9976.00	9980.00	10015.90	10160.00
	6.616	1917.18	.00	1918.96	272.25	5315.63	6442.20	242.17	.00	.00	9990.80	10041.70	.00
	6.616	1917.34	.16	1919.01	272.00	5371.84	6382.88	245.28	272.00	9785.00	9990.80	10041.70	10057.00
*	6.707	1922.53	.00	1924.40	373.38	4299.72	4955.29	2744.99	.00	.00	9994.80	10040.90	.00
*	6.707	1922.54	.02	1924.43	366.31	4335.28	4976.68	2688.03	367.00	9748.00	9994.80	10040.90	10115.00
*	6.798	1930.66	.00	1932.70	314.87	3275.69	7989.50	734.81	.00	.00	9975.20	10067.60	.00
*	6.798	1930.70	.05	1932.80	301.00	3356.15	8095.64	548.21	301.00	9789.00	9975.20	10067.60	10090.00

	SECNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	[illegible].901	1939.12	.00	1941.16	303.77	4197.54	7738.74	63.72	.00	.00	9943.80	10048.00	.00
	6.901	1939.17	.05	1941.16	303.89	4217.14	7718.54	64.32	304.00	9750.00	9943.80	10048.00	10054.00
*	6.987	1949.79	.00	1953.07	143.31	283.00	8284.65	3432.35	.00	.00	9973.30	10033.50	.00
*	6.987	1949.79	.01	1953.07	142.98	283.03	8283.52	3433.46	143.00	9965.00	9973.30	10033.50	10108.00
	7.111	1958.73	.00	1959.39	466.84	3055.42	6277.29	2667.29	.00	.00	9964.70	10083.20	.00
	7.111	1958.73	.00	1959.40	466.79	3055.42	6278.76	2665.81	467.00	9830.00	9964.70	10083.20	10297.00
*	7.199	1966.12	.00	1968.74	215.12	4166.45	6338.73	1494.82	.00	.00	9986.10	10048.50	.00
*	7.199	1966.12	.00	1968.74	214.27	4167.51	6338.61	1493.87	247.00	9929.00	9986.10	10048.50	10176.00
	7.297	1974.39	.00	1975.66	291.57	2666.47	7044.91	2288.62	.00	.00	9976.60	10075.10	.00
	7.297	1974.39	.00	1975.66	291.00	2666.87	7044.29	2288.84	291.00	9888.00	9976.60	10075.10	10179.00
*	7.396	1981.59	.00	1983.69	286.60	2272.49	6902.07	2825.44	.00	.00	9947.80	10048.00	.00
*	7.396	1981.59	.01	1983.69	286.65	2272.30	6900.58	2827.12	287.00	9885.00	9947.80	10048.00	10172.00
*	7.494	1991.43	.00	1994.33	174.81	2562.35	8492.52	945.12	.00	.00	9986.50	10065.60	.00
*	7.494	1991.43	.01	1994.33	174.79	2562.52	8490.80	946.68	175.00	9942.00	9986.50	10065.60	10117.00
	7.577	1999.26	.00	2000.92	231.13	3218.22	6257.50	2524.28	.00	.00	9981.50	10048.20	.00
	7.577	1999.25	-.01	2000.91	231.09	3218.84	6259.19	2521.97	232.00	9915.00	9981.50	10048.20	10147.00
*	7.670	2006.69	.00	2009.82	156.31	64.62	9141.71	2793.67	.00	.00	9937.80	10033.70	.00
*	7.670	2006.71	.02	2009.81	156.00	66.36	9141.05	2792.60	156.00	9925.00	9937.80	10033.70	10081.00
*	[illegible].752	2015.81	.00	2019.80	104.00	1339.13	10475.44	185.42	.00	.00	9990.60	10059.40	.00
*	[illegible]7.752	2015.81	.00	2019.80	103.63	1339.26	10475.38	185.36	104.00	9963.00	9990.60	10059.40	10067.00
	7.798	2022.61	.00	2023.36	227.99	4702.63	6264.43	1032.95	.00	.00	9960.30	10040.50	.00
	7.798	2022.61	.00	2023.36	227.94	4702.62	6264.40	1032.98	228.00	9852.00	9960.30	10040.50	10080.00
*	7.892	2028.69	.00	2031.17	209.15	497.65	6155.94	5346.41	.00	.00	9949.70	10007.20	.00
*	7.892	2028.69	.00	2031.17	208.72	497.87	6155.24	5346.89	209.00	9926.00	9949.70	10007.20	10135.00
	8.003	2040.56	.00	2042.02	319.59	4148.30	5875.10	1976.60	.00	.00	9953.40	10026.30	.00
	8.003	2040.58	.01	2042.11	284.00	4027.80	5961.14	2011.06	284.00	9824.00	9953.40	10026.30	10108.00
	8.095	2049.18	.00	2050.98	309.04	76.56	6361.77	5561.67	.00	.00	9975.10	10057.80	.00
	8.095	2049.22	.04	2050.99	309.00	76.78	6346.67	5576.55	309.00	9970.00	9975.10	10057.80	10279.00
	8.190	2058.62	.00	2059.68	393.89	855.33	3913.11	7231.56	.00	.00	9965.30	10020.30	.00
	8.190	2058.64	.02	2059.78	369.00	482.98	4037.57	7479.45	369.00	9946.00	9965.30	10020.30	10315.00
*	8.283	2067.49	.00	2069.44	311.11	923.30	8298.90	2777.80	.00	.00	9960.30	10068.80	.00
*	8.283	2067.56	.06	2069.62	282.00	960.17	8535.13	2504.69	282.00	9924.00	9960.30	10068.80	10206.00
	8.380	2076.93	.00	2077.64	491.52	4226.74	3538.34	4234.92	.00	.00	9932.60	10070.80	.00
	8.380	2077.18	.25	2077.98	430.88	4662.16	4003.85	3333.99	431.00	9784.00	9932.60	10070.80	10215.00

	CNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	8.473	2085.84	.00	2087.49	304.64	4033.64	4709.12	3257.24	.00	.00	9965.30	10057.30	.00
	8.473	2085.91	.07	2087.50	304.76	4038.00	4708.84	3253.16	305.00	9841.00	9965.30	10057.30	10146.00
	8.567	2095.68	.00	2097.25	290.72	2900.12	6524.42	2575.46	.00	.00	9967.40	10057.30	.00
	8.567	2095.61	-.07	2097.23	290.21	2895.40	6546.93	2557.67	291.00	9877.00	9967.40	10057.30	10168.00
	8.667	2104.71	.00	2106.42	271.37	3823.58	6417.03	1759.39	.00	.00	9952.60	10052.80	.00
	8.667	2104.75	.04	2106.43	271.00	3817.54	6412.90	1769.57	271.00	9870.00	9952.60	10052.80	10141.00
	8.745	2111.12	.00	2111.58	546.18	5357.47	3681.48	2961.04	.00	.00	9933.30	10070.50	.00
	8.745	2111.31	.19	2111.87	477.00	4337.96	4235.01	3427.03	477.00	9760.00	9933.30	10070.50	10237.00
*	8.859	2122.20	.00	2123.88	369.75	2772.76	6596.79	2630.45	.00	.00	9932.20	10074.80	.00
*	8.859	2122.20	.00	2123.88	369.41	2772.70	6596.77	2630.53	370.00	9824.00	9932.20	10074.80	10194.00
	8.958	2133.25	.00	2133.94	378.31	1021.31	4995.75	2112.94	.00	.00	9926.60	10057.50	.00
	8.958	2133.24	-.01	2133.94	378.00	1021.43	4995.16	2113.40	378.00	9872.00	9926.60	10057.50	10250.00
*	9.050	2142.16	.00	2143.76	286.77	5.75	7505.58	618.66	.00	.00	9882.30	10067.50	.00
*	9.050	2142.16	.01	2143.76	286.65	5.78	7503.32	620.89	287.00	9880.00	9882.30	10067.50	10167.00
	9.146	2153.74	.00	2154.99	224.96	1515.63	3686.31	2928.06	.00	.00	9987.50	10066.80	.00
	9.146	2153.73	-.01	2154.99	224.94	1515.90	3686.52	2927.58	225.00	9949.00	9987.50	10066.80	10174.00
	9.244	2164.21	.00	2165.20	317.32	1307.49	3069.17	3753.34	.00	.00	9986.10	10079.80	.00
	9.244	2164.21	.00	2165.20	317.00	1308.30	3068.66	3753.04	317.00	9903.00	9986.10	10079.80	10220.00
	9.327	2173.40	.00	2175.19	191.52	1787.22	5374.68	968.10	.00	.00	9979.80	10075.90	.00
	9.327	2173.39	-.01	2175.19	191.00	1786.52	5376.25	967.23	191.00	9902.00	9979.80	10075.90	10093.00
	9.403	2182.11	.00	2183.46	246.07	1511.75	6603.27	14.99	249.00	9867.00	9966.90	10109.20	10116.00
	9.403	2182.12	.01	2183.46	246.00	1513.15	6601.73	15.12	246.00	9867.00	9966.90	10109.20	10113.00
*	9.502	2194.67	.00	2196.11	330.36	3346.48	3654.38	1129.14	.00	.00	9911.30	10000.00	.00
*	9.502	2194.77	.10	2196.29	301.75	3494.42	3809.58	826.00	302.00	9797.00	9911.30	10000.00	10099.00
	9.592	2205.74	.00	2206.65	353.34	1662.14	5986.30	481.56	.00	.00	9940.00	10149.20	.00
	9.592	2205.77	.03	2206.66	353.00	1664.68	5982.78	482.53	353.00	9831.00	9940.00	10149.20	10184.00
*	9.661	2213.83	.00	2215.48	271.32	61.77	5608.22	2460.01	.00	.00	9927.20	10035.90	.00
*	9.661	2213.83	.00	2215.48	271.00	61.95	5606.76	2461.28	271.00	9918.00	9927.20	10035.90	10189.00
*	9.760	2225.91	.00	2227.51	312.44	579.54	7541.63	8.83	.00	.00	9923.40	10104.60	.00
*	9.760	2225.92	.00	2227.51	312.46	581.11	7540.02	8.86	313.00	9796.00	9923.40	10104.60	10109.00
	9.868	2237.79	.00	2238.52	430.94	998.85	3126.96	4004.19	.00	.00	9953.70	10058.00	.00
	9.868	2237.89	.09	2238.71	368.75	1070.65	3340.57	3718.78	369.00	9896.00	9953.70	10058.00	10265.00
*	9.970	2249.41	.00	2250.74	441.56	2616.63	4469.05	1044.32	.00	.00	9922.50	10028.90	.00
*	9.970	2249.47	.06	2250.93	375.74	2746.15	4668.36	715.49	376.00	9776.00	9922.50	10028.90	10152.00

	NO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
*	10.064	2261.02	.00	2262.91	215.86	676.63	7309.34	144.03	.00	.00	9931.80	10070.10	.00
*	10.064	2261.02	.00	2262.91	215.52	677.23	7308.76	144.01	216.00	9864.00	9931.80	10070.10	10080.00
	10.165	2272.67	.00	2274.11	233.34	39.72	5335.97	2754.31	.00	.00	9932.10	10020.20	.00
	10.165	2272.68	.00	2274.11	233.32	39.68	5336.60	2753.72	234.00	9925.00	9932.10	10020.20	10159.00
*	10.266	2282.44	.00	2284.44	215.60	112.65	3953.29	4064.05	.00	.00	9963.20	10009.00	.00
*	10.266	2282.44	.00	2284.44	215.00	114.27	3952.36	4063.36	215.00	9953.00	9963.20	10009.00	10168.00
*	10.355	2292.68	.00	2294.78	187.25	20.94	5784.73	2324.33	.00	.00	9949.50	10043.20	.00
*	10.355	2292.69	.00	2294.78	187.00	20.96	5784.18	2324.86	187.00	9947.00	9949.50	10043.20	10134.00
*	10.445	2303.57	.00	2305.17	185.22	1701.83	2599.89	518.28	.00	.00	9991.30	10025.30	.00
*	10.445	2303.58	.00	2305.17	185.00	1703.22	2598.17	518.61	185.00	9856.00	9991.30	10025.30	10041.00
*	10.573	2320.18	.00	2321.74	181.71	1287.04	2904.10	628.86	.00	.00	9956.50	10026.50	.00
*	10.573	2320.18	.01	2321.74	181.75	1287.31	2903.35	629.33	182.00	9890.00	9956.50	10026.50	10072.00
*	10.666	2333.19	.00	2334.80	189.96	769.42	4013.00	37.59	.00	.00	10000.00	10077.90	.00
*	10.666	2333.20	.00	2334.80	189.95	770.40	4012.01	37.59	190.00	9892.00	10000.00	10077.90	10082.00
*	10.752	2342.67	.00	2344.61	131.95	310.37	4489.52	20.11	.00	.00	9956.20	10041.70	.00
*	10.752	2342.68	.01	2344.61	131.83	311.61	4487.83	20.56	132.00	9919.00	9956.20	10041.70	10051.00
*	10.850	2354.59	.00	2356.90	96.36	184.51	4471.54	163.95	.00	.00	9980.00	10052.30	.00
*	10.850	2354.62	.03	2356.90	95.96	185.06	4467.85	167.09	96.00	9968.00	9980.00	10052.30	10064.00
*	10.949	2368.94	.00	2371.29	117.26	1874.51	2619.51	325.98	.00	.00	10000.00	10023.20	.00
*	10.949	2369.17	.23	2371.26	117.00	1926.88	2561.24	331.88	117.00	9921.00	10000.00	10023.20	10038.00
*	11.045	2379.88	.00	2382.58	78.10	760.75	3903.93	155.32	.00	.00	9979.60	10018.10	.00
*	11.045	2379.89	.01	2382.58	77.75	762.82	3901.73	155.45	78.00	9948.00	9979.60	10018.10	10026.00
*	11.147	2394.96	.00	2397.20	98.87	500.44	4192.31	127.25	.00	.00	9974.80	10039.80	.00
*	11.147	2394.98	.01	2397.19	98.67	501.38	4190.19	128.43	99.00	9949.00	9974.80	10039.80	10048.00
	11.266	2412.40	.00	2414.19	88.33	108.05	3419.12	1292.83	.00	.00	9980.20	10023.20	.00
	11.266	2412.37	-.02	2414.17	87.92	107.78	3420.33	1291.89	88.00	9974.00	9980.20	10023.20	10062.00
*	11.352	2425.16	.00	2427.58	87.99	990.43	3800.75	28.82	.00	.00	9969.90	10022.70	.00
*	11.352	2425.15	-.01	2427.58	87.00	991.27	3801.01	27.72	87.00	9938.00	9969.90	10022.70	10025.00
	11.431	2439.18	.00	2441.26	85.20	2381.72	2237.81	200.47	.00	.00	9978.10	10014.60	.00
	11.431	2439.19	.00	2441.26	84.72	2380.34	2236.54	203.11	85.00	9939.00	9978.10	10014.60	10024.00
*	11.527	2451.54	.00	2453.54	109.93	.00	3562.77	1257.23	.00	.00	9951.60	10016.90	.00
*	11.527	2451.53	-.01	2453.54	109.80	.00	3563.83	1256.17	110.00	9952.00	9951.60	10016.90	10062.00
*	11.636	2467.06	.00	2469.50	84.41	844.78	3855.57	119.65	.00	.00	9970.20	10018.90	.00
*	11.636	2467.03	-.03	2469.50	84.00	842.25	3858.24	119.50	84.00	9942.00	9970.20	10018.90	10026.00

	CNO	CWSEL	DIFKWS	EG	TOPWID	QLOB	QCH	QROB	PERENC	STENCL	STCHL	STCHR	STENCR
	11.712	2476.47	.00	2478.08	139.24	402.51	2255.46	2162.03	.00	.00	9988.60	10028.10	.00
	11.712	2476.50	.03	2478.13	123.00	381.16	2265.66	2173.18	123.00	9969.00	9988.60	10028.10	10092.00
*	11.813	2492.09	.00	2494.82	72.16	1302.67	3297.91	219.41	.00	.00	9983.00	10017.30	.00
*	11.813	2492.09	.00	2494.82	72.16	1302.66	3297.96	219.38	73.00	9956.00	9983.00	10017.30	10029.00
*	11.914	2505.27	.00	2507.68	98.44	527.53	4155.68	136.79	.00	.00	9975.70	10028.60	.00
*	11.914	2505.29	.02	2507.68	98.55	529.44	4153.17	137.39	99.00	9942.00	9975.70	10028.60	10041.00
*	12.018	2519.85	.00	2521.80	126.77	761.47	3654.01	404.52	.00	.00	9959.40	10023.30	.00
*	12.018	2519.88	.03	2521.80	126.71	763.10	3649.31	407.58	127.00	9922.00	9959.40	10023.30	10049.00

MORGANTOWN WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	.141	.00	.00	.00	1397.90	14400.00	1420.10	1412.50	1420.42	15.27	6.72	3717.24	3684.61
	.141	.00	.00	.00	1397.90	14400.00	1420.10	1412.42	1420.56	19.46	7.58	3045.46	3264.04
*	.161	104.00	.00	.00	1402.80	14400.00	1421.42	1421.42	1421.94	37.71	7.63	2900.73	2345.00
*	.161	104.00	.00	.00	1402.80	14400.00	1421.42	1421.42	1422.02	41.34	7.98	2637.79	2239.67
*	.177	88.00	1422.00	1413.60	1403.60	14400.00	1426.54	.00	1426.86	18.02	6.06	3746.51	3392.24
*	.177	88.00	1422.00	1413.60	1403.60	14400.00	1426.41	.00	1426.86	23.43	6.88	3051.72	2975.07
	.187	51.00	.00	.00	1402.90	14400.00	1426.60	1414.47	1426.96	9.87	5.50	3323.65	4582.45
	.187	51.00	.00	.00	1402.90	14400.00	1426.62	1414.49	1426.98	9.84	5.49	3327.84	4590.31
	.278	484.00	.00	.00	1409.90	14400.00	1427.55	1423.19	1429.39	169.12	11.19	1349.05	1107.30
	.278	484.00	.00	.00	1409.90	14400.00	1427.56	1423.19	1429.40	168.60	11.18	1350.26	1109.01
	.375	509.00	.00	.00	1416.60	14400.00	1439.95	1438.49	1443.43	408.45	17.02	991.95	712.51
	.375	509.00	.00	.00	1416.60	14400.00	1439.95	1438.49	1443.43	409.12	17.03	991.38	711.93
	.460	445.00	.00	.00	1428.20	14400.00	1448.18	1439.93	1448.49	35.54	4.54	3259.39	2415.55
	.460	445.00	.00	.00	1428.20	14400.00	1448.18	1439.94	1448.49	35.53	4.54	3259.54	2415.75
	.548	468.00	.00	.00	1441.80	14400.00	1451.67	1449.84	1453.42	333.28	10.65	1372.14	788.78
	.548	468.00	.00	.00	1441.80	14400.00	1451.67	1449.84	1453.41	332.51	10.64	1373.06	789.70
	.643	502.00	.00	.00	1449.20	14400.00	1462.07	1457.36	1463.03	117.63	7.91	1874.31	1327.72
	.643	502.00	.00	.00	1449.20	14400.00	1462.06	1457.36	1463.02	117.69	7.91	1874.00	1327.39
	.711	360.00	.00	.00	1453.90	14400.00	1466.56	1462.55	1467.56	132.60	8.31	1892.71	1250.50
	.711	360.00	.00	.00	1453.90	14400.00	1466.56	1462.55	1467.56	132.89	8.32	1891.25	1249.13
	.806	504.00	.00	.00	1458.50	14400.00	1473.26	1468.62	1474.55	136.19	9.39	1671.57	1233.94
	.806	504.00	.00	.00	1458.50	14400.00	1473.26	1468.62	1474.55	135.97	9.38	1672.42	1234.92
	.950	757.00	.00	.00	1468.40	14400.00	1479.03	1477.78	1480.52	49.03	9.97	1560.30	2056.46
	.950	757.00	.00	.00	1468.40	14400.00	1479.03	1477.78	1480.53	49.13	9.97	1559.21	2054.44
*	1.010	318.00	.00	.00	1475.00	14400.00	1483.42	1483.42	1486.11	104.08	13.18	1109.46	1411.47
*	1.010	318.00	.00	.00	1475.00	14400.00	1483.43	1483.43	1486.11	103.53	13.16	1111.32	1415.26
*	1.110	524.00	.00	.00	1482.00	14400.00	1491.76	1491.76	1495.88	84.29	16.68	993.10	1568.45
*	1.110	524.00	.00	.00	1482.00	14400.00	1491.76	1491.76	1495.88	84.10	16.67	993.72	1570.21
*	1.210	519.00	.00	.00	1486.80	14400.00	1498.22	1498.22	1503.10	82.17	18.95	956.83	1588.55
*	1.210	519.00	.00	.00	1486.80	14400.00	1498.24	1498.24	1503.10	81.72	18.91	958.47	1592.93
*	1.300	491.00	.00	.00	1491.60	14400.00	1505.29	1505.29	1510.21	72.79	20.25	1229.02	1687.80
*	1.300	491.00	.00	.00	1491.60	14400.00	1505.31	1505.31	1510.21	72.28	20.20	1232.26	1693.76

	NO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	1.384	442.00	.00	.00	1497.20	14400.00	1511.47	1508.85	1513.39	30.02	13.14	1813.11	2628.10
	1.384	442.00	.00	.00	1497.20	14400.00	1511.45	1508.85	1513.38	30.23	13.17	1808.31	2618.99
*	1.477	489.00	.00	.00	1503.90	14400.00	1515.58	1515.58	1520.37	80.49	19.49	1026.15	1605.08
*	1.477	489.00	.00	.00	1503.90	14400.00	1515.58	1515.58	1520.37	80.39	19.48	1026.61	1606.10
	1.574	512.00	.00	.00	1511.00	14400.00	1521.97	1520.86	1524.99	72.90	15.16	1221.49	1686.54
	1.574	512.00	.00	.00	1511.00	14400.00	1521.97	1520.86	1524.99	72.99	15.16	1220.95	1685.49
	1.658	445.00	.00	.00	1515.60	14400.00	1525.74	1525.59	1529.31	105.77	15.98	1061.71	1400.20
	1.658	445.00	.00	.00	1515.60	14400.00	1525.74	1525.59	1529.31	105.80	15.99	1061.58	1399.95
	1.750	487.00	.00	.00	1523.50	14400.00	1532.74	1531.65	1534.93	100.74	13.85	1390.99	1434.68
	1.750	487.00	.00	.00	1523.50	14400.00	1532.74	1531.65	1534.92	100.60	13.85	1391.62	1435.70
*	1.831	428.00	.00	.00	1529.70	14400.00	1541.96	1541.96	1546.42	119.19	18.64	1008.16	1318.97
*	1.831	428.00	.00	.00	1529.70	14400.00	1542.00	1542.00	1546.41	117.60	18.56	1013.10	1327.89
*	1.926	500.00	.00	.00	1535.30	14400.00	1551.30	1551.30	1556.29	102.16	19.50	996.08	1424.72
*	1.926	500.00	.00	.00	1535.30	14400.00	1551.31	1551.31	1556.29	102.10	19.49	996.29	1425.14
	2.014	462.00	.00	.00	1543.40	14400.00	1557.33	1556.73	1561.46	112.29	18.99	1028.48	1358.93
	2.014	462.00	.00	.00	1543.40	14400.00	1557.33	1556.73	1561.45	112.16	18.98	1028.84	1359.70
	2.114	529.00	.00	.00	1551.60	14400.00	1564.11	1561.96	1566.40	59.79	13.18	1341.19	1862.36
	2.114	529.00	.00	.00	1551.60	14400.00	1564.10	1561.96	1566.39	59.88	13.18	1340.31	1860.83
	2.209	503.00	.00	.00	1557.20	14400.00	1567.94	1567.71	1571.50	116.63	16.26	1082.46	1333.40
	2.209	503.00	.00	.00	1557.20	14400.00	1567.94	1567.72	1571.50	116.66	16.26	1082.35	1333.24
	2.287	413.00	.00	.00	1562.10	14400.00	1573.13	1572.40	1576.10	94.75	14.80	1163.78	1479.39
	2.287	413.00	.00	.00	1562.10	14400.00	1573.14	1572.40	1576.09	94.35	14.78	1165.46	1482.51
	2.391	545.00	.00	.00	1568.80	14400.00	1579.31	1579.19	1581.93	120.88	15.10	1356.58	1309.76
	2.391	545.00	.00	.00	1568.80	14400.00	1579.28	1579.18	1581.92	121.70	15.13	1353.19	1305.31
*	2.476	449.00	.00	.00	1575.10	14400.00	1586.91	1586.91	1590.44	116.41	17.16	1162.73	1334.66
*	2.476	449.00	.00	.00	1575.10	14400.00	1586.91	1586.91	1590.44	116.14	17.15	1163.70	1336.20
*	2.577	532.00	.00	.00	1582.10	14400.00	1593.40	1593.40	1597.89	131.78	17.40	909.02	1254.39
*	2.577	532.00	.00	.00	1582.10	14400.00	1593.45	1593.45	1597.89	129.28	17.29	914.77	1266.47
	2.679	537.00	.00	.00	1591.50	14400.00	1602.84	1599.78	1604.11	66.81	10.97	1840.93	1761.69
	2.679	537.00	.00	.00	1591.50	14400.00	1602.80	1599.78	1604.08	67.84	11.02	1831.01	1748.34
*	2.764	451.00	.00	.00	1599.00	14200.00	1607.74	1607.74	1611.14	201.26	17.45	1054.79	1000.96
*	2.764	451.00	.00	.00	1599.00	14200.00	1607.74	1607.74	1611.14	200.63	17.43	1055.86	1002.51
*	2.882	627.00	.00	.00	1606.90	14200.00	1618.00	1618.00	1621.51	90.41	16.53	1163.48	1493.43
*	2.882	627.00	.00	.00	1606.90	14200.00	1618.00	1618.00	1621.50	90.26	16.52	1164.24	1494.65

	CNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	2.963	425.00	.00	.00	1613.80	14200.00	1624.77	1624.77	1628.58	90.87	16.36	1047.63	1489.66
*	2.963	425.00	.00	.00	1613.80	14200.00	1624.76	1624.76	1628.58	91.07	16.37	1046.67	1488.00
	3.058	503.00	.00	.00	1621.30	14200.00	1631.19	1630.71	1634.29	131.78	17.33	1164.87	1237.01
	3.058	503.00	.00	.00	1621.30	14200.00	1631.21	1630.69	1634.29	130.84	17.29	1167.49	1241.41
*	3.127	363.00	.00	.00	1627.60	14200.00	1637.69	1637.69	1640.92	111.66	16.07	1188.21	1343.79
*	3.127	363.00	.00	.00	1627.60	14200.00	1637.69	1637.69	1640.91	111.77	16.08	1187.70	1343.15
	3.219	482.00	.00	.00	1632.40	14200.00	1643.96	1641.56	1645.21	51.13	10.23	1828.26	1985.91
	3.219	482.00	.00	.00	1632.40	14200.00	1643.96	1641.56	1645.21	51.12	10.23	1828.29	1986.10
*	3.303	445.00	.00	.00	1638.30	14200.00	1647.70	1647.70	1650.35	154.93	16.76	1388.95	1140.82
*	3.303	445.00	.00	.00	1638.30	14200.00	1647.70	1647.70	1650.35	155.03	16.76	1388.64	1140.46
*	3.400	510.00	.00	.00	1646.20	14200.00	1657.20	1657.20	1660.85	88.99	16.84	1152.42	1505.27
*	3.400	510.00	.00	.00	1646.20	14200.00	1657.01	1657.01	1660.87	95.72	17.26	1097.00	1451.40
	3.473	388.00	.00	.00	1650.30	14200.00	1662.23	1658.80	1663.59	29.12	9.77	1661.70	2631.50
	3.473	388.00	.00	.00	1650.30	14200.00	1662.39	1658.79	1663.71	27.59	9.61	1692.13	2703.34
*	3.492	102.00	.00	.00	1653.10	14200.00	1670.37	1670.37	1674.98	102.20	18.09	991.47	1404.61
*	3.492	102.00	.00	.00	1653.10	14200.00	1670.44	1670.44	1674.98	100.26	17.96	1000.79	1418.19
*	3.520	146.00	1684.60	1668.10	1655.10	14200.00	1686.41	.00	1686.49	.86	3.43	7922.29	15270.88
*	3.520	146.00	1684.60	1668.10	1655.10	14200.00	1686.43	.00	1686.51	.89	3.49	7624.85	15024.08
	3.537	92.00	.00	.00	1656.40	14200.00	1686.40	1667.94	1686.59	2.32	4.78	5417.97	9313.83
	3.537	92.00	.00	.00	1656.40	14200.00	1686.41	1667.94	1686.62	2.44	4.90	5075.17	9084.85
	3.569	167.00	.00	.00	1659.70	14200.00	1686.56	1668.21	1686.66	1.18	3.16	7300.15	13051.95
	3.569	167.00	.00	.00	1659.70	14200.00	1686.57	1668.21	1686.69	1.34	3.36	6295.70	12274.63
	3.673	550.00	.00	.00	1667.60	13900.00	1686.71	1674.03	1686.74	.99	1.96	10481.64	13976.17
	3.673	550.00	.00	.00	1667.60	13900.00	1686.75	1674.03	1686.78	1.00	1.97	10350.35	13931.09
	3.764	477.00	.00	.00	1676.40	13900.00	1686.80	1683.12	1687.08	17.55	5.06	3846.59	3317.93
	3.764	477.00	.00	.00	1676.40	13900.00	1686.83	1683.08	1687.16	19.58	5.36	3427.68	3141.19
*	3.862	518.00	.00	.00	1683.30	13900.00	1691.15	1691.15	1692.93	225.28	13.48	1496.92	926.09
*	3.862	518.00	.00	.00	1683.30	13900.00	1691.19	1691.19	1693.07	229.70	13.68	1452.07	917.13
	3.946	447.00	.00	.00	1691.90	13900.00	1699.41	1698.11	1700.40	109.70	8.56	1801.43	1327.14
	3.946	447.00	.00	.00	1691.90	13900.00	1699.48	1698.11	1700.44	104.75	8.43	1828.45	1358.12
	4.049	542.00	.00	.00	1699.10	13900.00	1707.06	1706.91	1708.92	209.69	12.76	1464.41	959.90
	4.049	542.00	.00	.00	1699.10	13900.00	1707.01	1706.85	1708.93	217.18	12.92	1430.75	943.21
	4.149	529.00	.00	.00	1706.30	13900.00	1715.80	1715.38	1718.09	131.64	14.95	1428.42	1211.50
	4.149	529.00	.00	.00	1706.30	13900.00	1715.83	1715.38	1718.09	129.59	14.88	1436.56	1221.04

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	4.254	550.00	.00	.00	1715.50	13900.00	1723.34	1723.30	1725.45	140.70	12.83	1488.11	1171.84
*	4.254	550.00	.00	.00	1715.50	13900.00	1723.33	1723.33	1725.59	148.26	13.15	1406.52	1141.56
	4.344	479.00	.00	.00	1721.40	13900.00	1730.01	1730.00	1732.60	140.92	15.16	1358.18	1170.91
	4.344	479.00	.00	.00	1721.40	13900.00	1730.10	1729.99	1732.69	137.00	15.10	1338.56	1187.57
	4.437	488.00	.00	.00	1729.40	13900.00	1737.84	1737.70	1740.82	186.66	16.20	1147.85	1017.39
	4.437	488.00	.00	.00	1729.40	13900.00	1737.83	1737.71	1740.81	187.44	16.22	1146.24	1015.27
*	4.540	544.00	.00	.00	1737.90	13900.00	1748.11	1748.11	1751.06	116.53	15.65	1248.83	1287.65
*	4.540	544.00	.00	.00	1737.90	13900.00	1748.12	1748.12	1751.06	116.07	15.62	1250.90	1290.19
	4.634	497.00	.00	.00	1746.70	13900.00	1754.61	1754.31	1756.76	101.78	11.89	1236.03	1377.77
	4.634	497.00	.00	.00	1746.70	13900.00	1754.60	1754.31	1756.76	102.40	11.91	1233.21	1373.60
*	4.727	496.00	.00	.00	1753.60	13900.00	1763.62	1763.62	1766.96	104.73	15.90	1140.42	1358.26
*	4.727	496.00	.00	.00	1753.60	13900.00	1763.62	1763.62	1766.96	104.57	15.89	1141.06	1359.31
*	4.825	515.00	.00	.00	1761.80	13900.00	1772.30	1772.30	1775.44	86.58	15.44	1283.93	1493.86
*	4.825	515.00	.00	.00	1761.80	13900.00	1772.31	1772.31	1775.44	86.28	15.42	1285.67	1496.44
*	4.918	492.00	.00	.00	1768.20	13900.00	1780.01	1780.01	1783.34	79.74	16.16	1268.84	1556.63
*	4.918	492.00	.00	.00	1768.20	13900.00	1780.01	1780.01	1783.34	79.70	16.16	1269.04	1557.00
*	5.044	664.00	.00	.00	1777.80	13900.00	1788.33	1788.33	1791.24	89.69	15.85	1436.36	1467.71
*	5.044	664.00	.00	.00	1777.80	13900.00	1788.34	1788.34	1791.24	89.12	15.82	1440.05	1472.39
*	5.156	595.00	.00	.00	1788.90	13900.00	1797.65	1797.65	1800.54	162.32	15.30	1197.91	1091.01
*	5.156	595.00	.00	.00	1788.90	13900.00	1797.66	1797.66	1800.54	162.06	15.29	1198.60	1091.89
	5.250	489.00	.00	.00	1795.90	13900.00	1805.98	1805.08	1807.88	119.40	13.42	1384.36	1272.08
	5.250	489.00	.00	.00	1795.90	13900.00	1805.98	1805.08	1807.88	119.61	13.42	1383.55	1270.98
*	5.334	451.00	.00	.00	1802.60	13900.00	1814.16	1814.16	1818.17	106.16	18.80	1015.00	1349.06
*	5.334	451.00	.00	.00	1802.60	13900.00	1814.16	1814.16	1818.17	106.12	18.79	1015.14	1349.33
*	5.434	525.00	.00	.00	1812.00	13900.00	1822.20	1822.20	1826.01	114.10	17.33	1061.12	1301.27
*	5.434	525.00	.00	.00	1812.00	13900.00	1822.22	1822.22	1826.01	112.99	17.27	1064.71	1307.67
	5.529	501.00	.00	.00	1819.90	13900.00	1829.69	1829.17	1832.73	148.52	17.81	1144.40	1140.58
	5.529	501.00	.00	.00	1819.90	13900.00	1829.64	1829.16	1832.72	150.51	17.88	1139.39	1133.00
	5.625	506.00	.00	.00	1827.90	13900.00	1837.30	1836.29	1839.07	93.48	12.07	1523.77	1437.69
	5.625	506.00	.00	.00	1827.90	13900.00	1837.32	1836.29	1839.08	92.66	12.04	1528.17	1444.03
	5.726	534.00	.00	.00	1835.00	13900.00	1843.41	1843.03	1845.37	146.03	14.42	1492.52	1150.24
	5.726	534.00	.00	.00	1835.00	13900.00	1843.41	1843.04	1845.37	146.79	14.44	1489.88	1147.27
*	5.808	433.00	.00	.00	1841.60	13900.00	1852.26	1852.26	1855.95	123.40	18.82	1145.63	1251.30
*	5.808	433.00	.00	.00	1841.60	13900.00	1852.26	1852.26	1855.95	123.27	18.81	1146.02	1251.96

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	[illegible].905	512.00	.00	.00	1849.30	12300.00	1858.73	1858.73	1862.37	119.97	15.54	842.86	1122.98
*	5.905	512.00	.00	.00	1849.30	12300.00	1858.74	1858.74	1862.37	119.16	15.51	844.64	1126.76
	6.010	557.00	.00	.00	1858.20	12300.00	1866.92	1864.95	1867.63	50.94	9.26	2242.82	1723.29
	6.010	557.00	.00	.00	1858.20	12300.00	1866.91	1864.95	1867.63	51.23	9.27	2238.56	1718.41
*	6.094	444.00	.00	.00	1865.60	12300.00	1873.70	1873.70	1876.90	163.23	16.31	973.84	962.72
*	6.094	444.00	.00	.00	1865.60	12300.00	1873.74	1873.74	1876.90	160.00	16.20	980.46	972.40
*	6.143	255.00	.00	.00	1870.60	12300.00	1878.89	1878.89	1882.50	145.18	16.19	886.93	1020.82
*	6.143	255.00	.00	.00	1870.60	12300.00	1878.89	1878.89	1882.50	144.84	16.17	887.56	1022.03
	6.231	467.00	.00	.00	1876.40	12000.00	1886.41	1883.03	1886.92	41.70	7.50	2262.14	1858.26
	6.231	467.00	.00	.00	1876.40	12000.00	1886.40	1883.03	1886.91	41.73	7.50	2261.69	1857.68
*	6.323	485.00	.00	.00	1884.60	12000.00	1892.36	1892.36	1895.01	287.76	17.68	1018.68	707.40
*	6.323	485.00	.00	.00	1884.60	12000.00	1892.36	1892.36	1895.01	287.61	17.68	1018.71	707.58
*	6.391	361.00	.00	.00	1889.20	12000.00	1900.43	1900.43	1904.72	189.72	17.95	797.03	871.21
*	6.391	361.00	.00	.00	1889.20	12000.00	1900.44	1900.44	1904.72	189.06	17.93	797.94	872.72
	6.450	309.00	.00	.00	1894.00	12000.00	1907.38	1902.54	1907.73	18.91	6.41	2897.04	2759.37
	6.450	309.00	.00	.00	1894.00	12000.00	1907.48	1902.52	1908.01	25.70	7.50	2309.75	2367.28
*	6.514	340.00	.00	.00	1900.50	12000.00	1909.84	1909.84	1912.65	192.28	18.58	1124.38	865.40
*	6.514	340.00	.00	.00	1900.50	12000.00	1909.85	1909.85	1912.81	197.55	18.85	1081.68	853.78
	[illegible].616	534.00	.00	.00	1907.40	12000.00	1917.18	1916.46	1918.96	72.15	13.79	1560.76	1412.73
	[illegible].616	534.00	.00	.00	1907.40	12000.00	1917.34	1916.47	1919.01	67.03	13.44	1602.30	1465.65
*	6.707	484.00	.00	.00	1914.90	12000.00	1922.53	1922.53	1924.40	165.51	15.43	1486.30	932.76
*	6.707	484.00	.00	.00	1914.90	12000.00	1922.54	1922.54	1924.43	165.61	15.46	1474.38	932.47
*	6.798	482.00	.00	.00	1922.30	12000.00	1930.66	1930.66	1932.70	143.57	13.54	1334.06	1001.50
*	6.798	482.00	.00	.00	1922.30	12000.00	1930.70	1930.70	1932.80	143.75	13.62	1312.80	1000.87
	6.901	541.00	.00	.00	1931.70	12000.00	1939.12	1939.11	1941.16	175.09	13.51	1264.58	906.89
	6.901	541.00	.00	.00	1931.70	12000.00	1939.17	1939.11	1941.16	169.31	13.36	1278.81	922.22
*	6.987	456.00	.00	.00	1940.80	12000.00	1949.79	1949.79	1953.07	226.29	16.61	947.90	797.72
*	6.987	456.00	.00	.00	1940.80	12000.00	1949.79	1949.79	1953.07	225.75	16.60	948.60	798.67
	7.111	565.00	.00	.00	1950.30	12000.00	1958.73	1956.90	1959.39	51.37	8.19	2240.13	1674.24
	7.111	565.00	.00	.00	1950.30	12000.00	1958.73	1956.90	1959.40	51.53	8.20	2237.80	1671.69
*	7.199	465.00	.00	.00	1958.00	12000.00	1966.12	1966.12	1968.74	182.32	15.50	1080.36	888.72
*	7.199	465.00	.00	.00	1958.00	12000.00	1966.12	1966.12	1968.74	182.54	15.50	1079.73	888.18
	7.297	523.00	.00	.00	1965.80	12000.00	1974.39	1973.15	1975.66	86.31	10.78	1536.33	1291.64
	7.297	523.00	.00	.00	1965.80	12000.00	1974.39	1973.15	1975.66	86.23	10.78	1536.74	1292.23

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	7.396	523.00	.00	.00	1974.90	12000.00	1981.59	1981.59	1983.69	214.79	13.98	1186.44	818.80
*	7.396	523.00	.00	.00	1974.90	12000.00	1981.59	1981.59	1983.69	213.72	13.96	1188.36	820.84
*	7.494	516.00	.00	.00	1982.60	12000.00	1991.43	1991.43	1994.33	156.23	15.16	974.98	960.05
*	7.494	516.00	.00	.00	1982.60	12000.00	1991.43	1991.43	1994.33	155.59	15.14	976.36	962.04
	7.577	438.00	.00	.00	1990.00	12000.00	1999.26	1998.22	2000.92	129.93	12.76	1341.99	1052.76
	7.577	438.00	.00	.00	1990.00	12000.00	1999.25	1998.22	2000.91	130.49	12.78	1340.07	1050.50
*	7.670	490.00	.00	.00	1998.90	12000.00	2006.69	2006.69	2009.82	195.15	15.40	909.12	859.02
*	7.670	490.00	.00	.00	1998.90	12000.00	2006.71	2006.71	2009.81	192.78	15.34	912.61	864.28
*	7.752	431.00	.00	.00	2006.70	12000.00	2015.81	2015.81	2019.80	206.79	16.85	805.92	834.48
*	7.752	431.00	.00	.00	2006.70	12000.00	2015.81	2015.81	2019.80	206.85	16.86	805.79	834.35
	7.798	248.00	.00	.00	2012.20	12000.00	2022.61	2018.74	2023.36	45.43	8.19	1871.74	1780.36
	7.798	248.00	.00	.00	2012.20	12000.00	2022.61	2018.74	2023.36	45.43	8.19	1871.79	1780.44
*	7.892	498.00	.00	.00	2021.00	12000.00	2028.69	2028.69	2031.17	237.39	15.21	1048.74	778.84
*	7.892	498.00	.00	.00	2021.00	12000.00	2028.69	2028.69	2031.17	237.13	15.20	1049.10	779.26
	8.003	581.00	.00	.00	2033.10	12000.00	2040.56	2039.92	2042.02	140.14	12.30	1461.46	1013.67
	8.003	581.00	.00	.00	2033.10	12000.00	2040.58	2039.88	2042.11	143.15	12.46	1412.11	1002.95
	8.095	488.00	.00	.00	2042.10	12000.00	2049.18	2049.01	2050.98	196.20	13.36	1308.38	856.70
	8.095	488.00	.00	.00	2042.10	12000.00	2049.22	2049.02	2050.99	191.38	13.24	1319.17	867.43
	8.190	500.00	.00	.00	2051.00	12000.00	2058.62	2057.81	2059.68	138.36	11.62	1690.83	1020.19
	8.190	500.00	.00	.00	2051.00	12000.00	2058.64	2057.93	2059.78	145.84	11.95	1628.54	993.67
*	8.283	492.00	.00	.00	2060.60	12000.00	2067.49	2067.49	2069.44	173.71	12.82	1254.36	910.49
*	8.283	492.00	.00	.00	2060.60	12000.00	2067.56	2067.56	2069.62	177.56	13.05	1202.22	900.56
	8.380	509.00	.00	.00	2070.20	12000.00	2076.93	2075.85	2077.64	133.53	7.67	1826.82	1038.47
	8.380	509.00	.00	.00	2070.20	12000.00	2077.18	2076.08	2077.98	134.79	8.08	1713.01	1033.60
	8.473	496.00	.00	.00	2080.30	12000.00	2085.84	2085.55	2087.49	256.38	12.29	1211.87	749.44
	8.473	496.00	.00	.00	2080.30	12000.00	2085.91	2085.56	2087.50	240.67	12.06	1236.11	773.51
	8.567	496.00	.00	.00	2089.10	12000.00	2095.68	2095.15	2097.25	151.67	12.08	1333.31	974.40
	8.567	496.00	.00	.00	2089.10	12000.00	2095.61	2095.14	2097.23	158.63	12.26	1313.53	952.77
	8.667	526.00	.00	.00	2098.00	12000.00	2104.71	2104.20	2106.42	189.99	12.29	1245.98	870.60
	8.667	526.00	.00	.00	2098.00	12000.00	2104.75	2104.24	2106.43	184.94	12.19	1256.89	882.41
	8.745	412.00	.00	.00	2104.80	12000.00	2111.12	2109.44	2111.58	81.75	6.36	2245.96	1327.18
	8.745	412.00	.00	.00	2104.80	12000.00	2111.31	2109.72	2111.87	92.47	6.98	2045.42	1247.91
*	8.859	600.00	.00	.00	2116.70	12000.00	2122.20	2122.20	2123.88	321.51	11.88	1215.83	669.24
*	8.859	600.00	.00	.00	2116.70	12000.00	2122.20	2122.20	2123.88	321.58	11.88	1215.70	669.17

	SECNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
	[illegible].958	522.00	.00	.00	2126.70	8130.00	2133.25	2132.14	2133.94	99.39	7.77	1382.85	815.50
	8.958	522.00	.00	.00	2126.70	8130.00	2133.24	2132.14	2133.94	99.25	7.76	1383.50	816.07
*	9.050	490.00	.00	.00	2137.10	8130.00	2142.16	2142.16	2143.76	251.18	10.50	855.18	512.98
*	9.050	490.00	.00	.00	2137.10	8130.00	2142.16	2142.16	2143.76	249.65	10.48	857.00	514.54
	9.146	503.00	.00	.00	2148.10	8130.00	2153.74	2153.03	2154.99	192.11	10.25	940.92	586.56
	9.146	503.00	.00	.00	2148.10	8130.00	2153.73	2153.03	2154.99	193.10	10.27	939.38	585.05
	9.244	518.00	.00	.00	2158.80	8130.00	2164.21	2163.63	2165.20	202.58	9.02	1055.24	571.20
	9.244	518.00	.00	.00	2158.80	8130.00	2164.21	2163.63	2165.20	201.52	9.01	1056.93	572.70
	9.327	439.00	.00	.00	2167.30	8130.00	2173.40	2173.16	2175.19	226.07	11.58	804.25	540.72
	9.327	439.00	.00	.00	2167.30	8130.00	2173.39	2173.16	2175.19	227.08	11.60	802.95	539.51
	9.403	402.00	.00	.00	2176.40	8130.00	2182.11	2181.66	2183.46	180.16	10.03	956.90	605.70
	9.403	402.00	.00	.00	2176.40	8130.00	2182.12	2181.66	2183.46	179.32	10.01	958.34	607.12
*	9.502	524.00	.00	.00	2190.30	8130.00	2194.67	2194.67	2196.11	317.23	11.35	937.75	456.46
*	9.502	524.00	.00	.00	2190.30	8130.00	2194.77	2194.77	2196.29	315.89	11.53	901.74	457.43
	9.592	474.00	.00	.00	2201.30	8130.00	2205.74	2205.16	2206.65	150.40	8.30	1119.47	662.93
	9.592	474.00	.00	.00	2201.30	8130.00	2205.77	2205.16	2206.66	145.70	8.22	1130.65	673.53
*	9.661	365.00	.00	.00	2208.60	8130.00	2213.83	2213.83	2215.48	221.33	11.80	909.27	546.47
*	9.661	365.00	.00	.00	2208.60	8130.00	2213.83	2213.83	2215.48	220.56	11.79	910.27	547.43
*	[illegible].760	520.00	.00	.00	2220.40	8130.00	2225.91	2225.91	2227.51	200.67	10.47	877.79	573.92
*	[illegible].760	520.00	.00	.00	2220.40	8130.00	2225.92	2225.92	2227.51	199.84	10.45	879.16	575.10
	9.868	570.00	.00	.00	2232.80	8130.00	2237.79	2237.06	2238.52	176.43	8.87	1331.66	612.08
	9.868	570.00	.00	.00	2232.80	8130.00	2237.89	2237.14	2238.71	184.49	9.23	1234.30	598.55
*	9.970	541.00	.00	.00	2244.50	8130.00	2249.41	2249.41	2250.74	173.21	11.54	1134.76	617.73
*	9.970	541.00	.00	.00	2244.50	8130.00	2249.47	2249.47	2250.93	178.85	11.86	1053.60	607.92
*	10.064	497.00	.00	.00	2255.30	8130.00	2261.02	2261.02	2262.91	239.56	11.52	787.95	525.27
*	10.064	497.00	.00	.00	2255.30	8130.00	2261.02	2261.02	2262.91	239.44	11.52	788.05	525.40
	10.165	530.00	.00	.00	2266.20	8130.00	2272.67	2272.27	2274.11	172.17	10.98	937.03	619.60
	10.165	530.00	.00	.00	2266.20	8130.00	2272.68	2272.28	2274.11	172.39	10.99	936.63	619.21
*	10.266	538.00	.00	.00	2275.80	8130.00	2282.44	2282.44	2284.44	179.87	14.45	853.00	606.20
*	10.266	538.00	.00	.00	2275.80	8130.00	2282.44	2282.44	2284.44	179.73	14.44	853.05	606.42
*	10.355	466.00	.00	.00	2287.00	8130.00	2292.68	2292.68	2294.78	196.04	13.02	777.89	580.66
*	10.355	466.00	.00	.00	2287.00	8130.00	2292.69	2292.69	2294.78	195.76	13.02	778.19	581.06
*	10.445	478.00	.00	.00	2297.50	4820.00	2303.57	2303.57	2305.17	171.40	12.81	626.04	368.16
*	10.445	478.00	.00	.00	2297.50	4820.00	2303.58	2303.58	2305.17	170.73	12.79	626.88	368.88

	CNO	XLCH	ELTRD	ELLC	ELMIN	Q	CWSEL	CRIWS	EG	10K*S	VCH	AREA	.01K
*	10.573	675.00	.00	.00	2315.40	4820.00	2320.18	2320.18	2321.74	244.11	11.86	553.34	308.50
*	10.573	675.00	.00	.00	2315.40	4820.00	2320.18	2320.18	2321.74	242.24	11.84	554.72	309.69
*	10.666	493.00	.00	.00	2327.20	4820.00	2333.19	2333.19	2334.80	144.82	11.02	581.11	400.52
*	10.666	493.00	.00	.00	2327.20	4820.00	2333.20	2333.20	2334.80	144.42	11.01	581.71	401.08
*	10.752	453.00	.00	.00	2337.00	4820.00	2342.67	2342.67	2344.61	202.07	11.52	473.41	339.08
*	10.752	453.00	.00	.00	2337.00	4820.00	2342.68	2342.68	2344.61	200.37	11.49	474.79	340.51
*	10.850	515.00	.00	.00	2348.90	4820.00	2354.59	2354.59	2356.90	214.72	12.56	421.37	328.94
*	10.850	515.00	.00	.00	2348.90	4820.00	2354.62	2354.62	2356.90	210.17	12.48	424.13	332.48
*	10.949	524.00	.00	.00	2361.70	4820.00	2368.94	2368.94	2371.29	196.41	15.59	508.57	343.92
*	10.949	524.00	.00	.00	2361.70	4820.00	2369.17	2369.17	2371.26	169.32	14.78	535.27	370.42
*	11.045	507.00	.00	.00	2372.10	4820.00	2379.88	2379.88	2382.58	210.79	14.30	413.21	331.99
*	11.045	507.00	.00	.00	2372.10	4820.00	2379.89	2379.89	2382.58	209.37	14.27	414.10	333.11
*	11.147	538.00	.00	.00	2389.10	4820.00	2394.96	2394.96	2397.20	348.78	12.59	427.87	258.09
*	11.147	538.00	.00	.00	2389.10	4820.00	2394.98	2394.98	2397.19	345.62	12.55	429.08	259.27
	11.266	631.00	.00	.00	2404.50	4820.00	2412.40	2411.59	2414.19	217.26	11.91	486.09	327.01
	11.266	631.00	.00	.00	2404.50	4820.00	2412.37	2411.59	2414.17	218.74	11.93	484.94	325.90
*	11.352	453.00	.00	.00	2418.00	4820.00	2425.16	2425.16	2427.58	369.17	13.40	410.29	250.86
*	11.352	453.00	.00	.00	2418.00	4820.00	2425.15	2425.15	2427.58	370.45	13.41	409.54	250.43
	11.431	419.00	.00	.00	2433.60	4820.00	2439.18	2438.87	2441.26	262.07	11.38	421.99	297.74
	11.431	419.00	.00	.00	2433.60	4820.00	2439.19	2438.88	2441.26	261.06	11.36	422.29	298.32
*	11.527	503.00	.00	.00	2446.40	4820.00	2451.54	2451.54	2453.54	194.30	12.31	446.52	345.79
*	11.527	503.00	.00	.00	2446.40	4820.00	2451.53	2451.53	2453.54	196.04	12.34	445.22	344.25
*	11.636	577.00	.00	.00	2461.00	4820.00	2467.06	2467.06	2469.50	159.33	13.52	415.95	381.85
*	11.636	577.00	.00	.00	2461.00	4820.00	2467.03	2467.03	2469.50	161.99	13.59	413.65	378.70
	11.712	398.00	.00	.00	2470.50	4820.00	2476.47	2476.24	2478.08	281.13	12.45	515.55	287.47
	11.712	398.00	.00	.00	2470.50	4820.00	2476.50	2476.16	2478.13	278.07	12.43	508.34	289.05
*	11.813	538.00	.00	.00	2485.20	4820.00	2492.09	2492.09	2494.82	227.09	14.42	384.34	319.85
*	11.813	538.00	.00	.00	2485.20	4820.00	2492.09	2492.09	2494.82	227.15	14.42	384.30	319.81
*	11.914	531.00	.00	.00	2498.40	4820.00	2505.27	2505.27	2507.68	155.02	13.26	444.70	387.13
*	11.914	531.00	.00	.00	2498.40	4820.00	2505.29	2505.29	2507.68	153.12	13.21	446.64	389.52
*	12.018	546.00	.00	.00	2514.50	4820.00	2519.85	2519.85	2521.80	274.50	12.37	482.48	290.92
*	12.018	546.00	.00	.00	2514.50	4820.00	2519.88	2519.88	2521.80	268.42	12.28	485.96	294.20

MOR[illegible]ITY WASH

SUMMARY PRINTOUT TABLE 150

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	.141	14400.00	1420.10	.00	.00	.00	374.89	.00
	.141	14400.00	1420.10	.00	.00	.00	244.00	.00
*	.161	14400.00	1421.42	.00	1.32	.00	380.47	104.00
*	.161	14400.00	1421.42	.00	1.32	.00	293.00	104.00
*	.177	14400.00	1426.54	.00	5.13	.00	410.33	88.00
*	.177	14400.00	1426.41	-.14	4.99	-.14	281.30	88.00
	.187	14400.00	1426.60	.00	.06	.00	229.04	51.00
	.187	14400.00	1426.62	.02	.21	.02	229.18	51.00
	.278	14400.00	1427.55	.00	.94	.00	114.28	484.00
	.278	14400.00	1427.56	.01	.94	.01	113.87	484.00
	.375	14400.00	1439.95	.00	12.41	.00	102.10	509.00
	.375	14400.00	1439.95	-.01	12.39	-.01	102.05	509.00
	.460	14400.00	1448.18	.00	8.23	.00	305.67	445.00
	.460	14400.00	1448.18	.00	8.23	.00	305.57	445.00
	.548	14400.00	1451.67	.00	3.49	.00	186.12	468.00
	.548	14400.00	1451.67	.00	3.49	.00	185.71	468.00
	.643	14400.00	1462.07	.00	10.40	.00	191.59	502.00
	.643	14400.00	1462.06	-.01	10.40	-.01	191.58	502.00
	.711	14400.00	1466.56	.00	4.49	.00	237.74	360.00
	.711	14400.00	1466.56	.00	4.49	.00	237.62	360.00
	.806	14400.00	1473.26	.00	6.70	.00	175.12	504.00
	.806	14400.00	1473.26	.00	6.70	.00	174.99	504.00
	.950	14400.00	1479.03	.00	5.76	.00	285.29	757.00
	.950	14400.00	1479.03	.00	5.77	.00	285.00	757.00
*	1.010	14400.00	1483.42	.00	4.39	.00	221.59	318.00
*	1.010	14400.00	1483.43	.01	4.40	.01	221.41	318.00
*	1.110	14400.00	1491.76	.00	8.34	.00	129.63	524.00
*	1.110	14400.00	1491.76	.01	8.33	.01	129.00	524.00
*	1.210	14400.00	1498.22	.00	6.47	.00	104.51	519.00
*	1.210	14400.00	1498.24	.02	6.48	.02	104.00	519.00
*	1.300	14400.00	1505.29	.00	7.06	.00	137.19	491.00
*	1.300	14400.00	1505.31	.02	7.07	.02	136.87	491.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	1.384	14400.00	1511.47	.00	6.19	.00	208.17	442.00
	1.384	14400.00	1511.45	-.02	6.14	-.02	208.05	442.00
*	1.477	14400.00	1515.58	.00	4.11	.00	113.27	489.00
*	1.477	14400.00	1515.58	.00	4.13	.00	113.27	489.00
	1.574	14400.00	1521.97	.00	6.40	.00	154.51	512.00
	1.574	14400.00	1521.97	-.01	6.39	-.01	154.48	512.00
	1.658	14400.00	1525.74	.00	3.76	.00	146.63	445.00
	1.658	14400.00	1525.74	.00	3.77	.00	146.63	445.00
	1.750	14400.00	1532.74	.00	7.00	.00	207.66	487.00
	1.750	14400.00	1532.74	.00	7.00	.00	207.67	487.00
*	1.831	14400.00	1541.96	.00	9.22	.00	123.57	428.00
*	1.831	14400.00	1542.00	.04	9.26	.04	123.00	428.00
*	1.926	14400.00	1551.30	.00	9.34	.00	110.66	500.00
*	1.926	14400.00	1551.31	.00	9.30	.00	110.41	500.00
	2.014	14400.00	1557.33	.00	6.03	.00	104.90	462.00
	2.014	14400.00	1557.33	.00	6.02	.00	104.70	462.00
	2.114	14400.00	1564.11	.00	6.78	.00	146.59	529.00
	2.114	14400.00	1564.10	-.01	6.77	-.01	146.00	529.00
	2.209	14400.00	1567.94	.00	3.83	.00	147.17	503.00
	2.209	14400.00	1567.94	.00	3.84	.00	146.83	503.00
	2.287	14400.00	1573.13	.00	5.19	.00	151.60	413.00
	2.287	14400.00	1573.14	.00	5.20	.00	151.60	413.00
	2.391	14400.00	1579.31	.00	6.17	.00	242.92	545.00
	2.391	14400.00	1579.28	-.02	6.15	-.02	242.56	545.00
*	2.476	14400.00	1586.91	.00	7.60	.00	161.44	449.00
*	2.476	14400.00	1586.91	.01	7.63	.01	161.49	449.00
*	2.577	14400.00	1593.40	.00	6.50	.00	109.42	532.00
*	2.577	14400.00	1593.45	.05	6.54	.05	109.00	532.00
	2.679	14400.00	1602.84	.00	9.44	.00	245.52	537.00
	2.679	14400.00	1602.80	-.04	9.35	-.04	244.91	537.00
*	2.764	14200.00	1607.74	.00	4.90	.00	156.69	451.00
*	2.764	14200.00	1607.74	.01	4.94	.01	156.52	451.00
*	2.882	14200.00	1618.00	.00	10.26	.00	185.12	627.00
*	2.882	14200.00	1618.00	.00	10.26	.00	185.15	627.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	2.963	14200.00	1624.77	.00	6.77	.00	156.58	425.00
*	2.963	14200.00	1624.76	-.01	6.76	-.01	156.00	425.00
	3.058	14200.00	1631.19	.00	6.43	.00	155.52	503.00
	3.058	14200.00	1631.21	.01	6.44	.01	155.00	503.00
*	3.127	14200.00	1637.69	.00	6.50	.00	190.81	363.00
*	3.127	14200.00	1637.69	.00	6.48	.00	190.00	363.00
	3.219	14200.00	1643.96	.00	6.27	.00	253.65	482.00
	3.219	14200.00	1643.96	.00	6.28	.00	253.00	482.00
*	3.303	14200.00	1647.70	.00	3.74	.00	261.61	445.00
*	3.303	14200.00	1647.70	.00	3.74	.00	261.60	445.00
*	3.400	14200.00	1657.20	.00	9.50	.00	205.37	510.00
*	3.400	14200.00	1657.01	-.18	9.31	-.18	168.00	510.00
	3.473	14200.00	1662.23	.00	5.03	.00	185.19	388.00
	3.473	14200.00	1662.39	.16	5.38	.16	185.00	388.00
*	3.492	14200.00	1670.37	.00	8.14	.00	128.31	102.00
*	3.492	14200.00	1670.44	.07	8.05	.07	128.81	102.00
*	3.520	14200.00	1686.41	.00	16.04	.00	455.33	146.00
*	3.520	14200.00	1686.43	.01	15.99	.01	370.00	146.00
	3.537	14200.00	1686.40	.00	-.01	.00	364.43	92.00
	3.537	14200.00	1686.41	.01	-.01	.01	275.00	92.00
	3.569	14200.00	1686.56	.00	.16	.00	447.84	167.00
	3.569	14200.00	1686.57	.01	.16	.01	305.00	167.00
	3.673	13900.00	1686.71	.00	.15	.00	778.41	550.00
	3.673	13900.00	1686.75	.04	.18	.04	734.00	550.00
	3.764	13900.00	1686.80	.00	.09	.00	657.51	477.00
	3.764	13900.00	1686.83	.03	.09	.03	535.00	477.00
*	3.862	13900.00	1691.15	.00	4.35	.00	400.21	518.00
*	3.862	13900.00	1691.19	.05	4.36	.05	368.44	518.00
	3.946	13900.00	1699.41	.00	8.26	.00	388.19	447.00
	3.946	13900.00	1699.48	.07	8.28	.07	387.93	447.00
	4.049	13900.00	1707.06	.00	7.65	.00	391.66	542.00
	4.049	13900.00	1707.01	-.05	7.54	-.05	351.30	542.00
	4.149	13900.00	1715.80	.00	8.74	.00	259.36	529.00
	4.149	13900.00	1715.83	.03	8.81	.03	259.77	529.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	[illegible].254	13900.00	1723.34	.00	7.55	.00	364.05	550.00
*	4.254	13900.00	1723.33	-.02	7.50	-.02	328.00	550.00
	4.344	13900.00	1730.01	.00	6.67	.00	273.44	479.00
	4.344	13900.00	1730.10	.09	6.77	.09	251.17	479.00
	4.437	13900.00	1737.84	.00	7.84	.00	184.99	488.00
	4.437	13900.00	1737.83	-.01	7.73	-.01	184.77	488.00
*	4.540	13900.00	1748.11	.00	10.27	.00	238.81	544.00
*	4.540	13900.00	1748.12	.01	10.29	.01	238.89	544.00
	4.634	13900.00	1754.61	.00	6.50	.00	288.97	497.00
	4.634	13900.00	1754.60	-.01	6.48	-.01	288.79	497.00
*	4.727	13900.00	1763.62	.00	9.01	.00	180.53	496.00
*	4.727	13900.00	1763.62	.00	9.02	.00	180.55	496.00
*	4.825	13900.00	1772.30	.00	8.68	.00	230.54	515.00
*	4.825	13900.00	1772.31	.01	8.69	.01	230.38	515.00
*	4.918	13900.00	1780.01	.00	7.71	.00	204.39	492.00
*	4.918	13900.00	1780.01	.00	7.70	.00	204.23	492.00
*	5.044	13900.00	1788.33	.00	8.32	.00	260.89	664.00
*	5.044	13900.00	1788.34	.01	8.33	.01	261.04	664.00
*	[illegible].156	13900.00	1797.65	.00	9.33	.00	210.29	595.00
*	[illegible].156	13900.00	1797.66	.00	9.31	.00	210.32	595.00
	5.250	13900.00	1805.98	.00	8.33	.00	227.91	489.00
	5.250	13900.00	1805.98	.00	8.33	.00	227.87	489.00
*	5.334	13900.00	1814.16	.00	8.17	.00	125.67	451.00
*	5.334	13900.00	1814.16	.00	8.18	.00	125.68	451.00
*	5.434	13900.00	1822.20	.00	8.04	.00	145.67	525.00
*	5.434	13900.00	1822.22	.02	8.07	.02	145.78	525.00
	5.529	13900.00	1829.69	.00	7.49	.00	152.63	501.00
	5.529	13900.00	1829.64	-.04	7.42	-.04	152.50	501.00
	5.625	13900.00	1837.30	.00	7.62	.00	255.54	506.00
	5.625	13900.00	1837.32	.02	7.67	.02	255.61	506.00
	5.726	13900.00	1843.41	.00	6.11	.00	295.44	534.00
	5.726	13900.00	1843.41	.00	6.09	.00	295.38	534.00
*	5.808	13900.00	1852.26	.00	8.85	.00	155.59	433.00
*	5.808	13900.00	1852.26	.00	8.85	.00	155.46	433.00

	CNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	5.905	12300.00	1858.73	.00	6.46	.00	123.01	512.00
*	5.905	12300.00	1858.74	.01	6.48	.01	122.76	512.00
	6.010	12300.00	1866.92	.00	8.19	.00	413.74	557.00
	6.010	12300.00	1866.91	-.01	8.17	-.01	413.00	557.00
*	6.094	12300.00	1873.70	.00	6.79	.00	165.50	444.00
*	6.094	12300.00	1873.74	.04	6.83	.04	165.00	444.00
*	6.143	12300.00	1878.89	.00	5.19	.00	126.89	255.00
*	6.143	12300.00	1878.89	.01	5.15	.01	126.64	255.00
	6.231	12000.00	1886.41	.00	7.52	.00	333.62	467.00
	6.231	12000.00	1886.40	.00	7.51	.00	333.61	467.00
*	6.323	12000.00	1892.36	.00	5.95	.00	189.11	485.00
*	6.323	12000.00	1892.36	.00	5.95	.00	188.64	485.00
*	6.391	12000.00	1900.43	.00	8.07	.00	96.24	361.00
*	6.391	12000.00	1900.44	.01	8.08	.01	95.84	361.00
	6.450	12000.00	1907.38	.00	6.95	.00	344.08	309.00
	6.450	12000.00	1907.48	.09	7.04	.09	238.89	309.00
*	6.514	12000.00	1909.84	.00	2.45	.00	204.52	340.00
*	6.514	12000.00	1909.85	.01	2.37	.01	183.71	340.00
	.616	12000.00	1917.18	.00	7.34	.00	272.25	534.00
	6.616	12000.00	1917.34	.16	7.49	.16	272.00	534.00
*	6.707	12000.00	1922.53	.00	5.34	.00	373.38	484.00
*	6.707	12000.00	1922.54	.02	5.20	.02	366.31	484.00
*	6.798	12000.00	1930.66	.00	8.13	.00	314.87	482.00
*	6.798	12000.00	1930.70	.05	8.16	.05	301.00	482.00
	6.901	12000.00	1939.12	.00	8.47	.00	303.77	541.00
	6.901	12000.00	1939.17	.05	8.47	.05	303.89	541.00
*	6.987	12000.00	1949.79	.00	10.66	.00	143.31	456.00
*	6.987	12000.00	1949.79	.01	10.62	.01	142.98	456.00
	7.111	12000.00	1958.73	.00	8.94	.00	466.84	565.00
	7.111	12000.00	1958.73	.00	8.94	.00	466.79	565.00
*	7.199	12000.00	1966.12	.00	7.39	.00	215.12	465.00
*	7.199	12000.00	1966.12	.00	7.38	.00	214.27	465.00
	7.297	12000.00	1974.39	.00	8.27	.00	291.57	523.00
	7.297	12000.00	1974.39	.00	8.28	.00	291.00	523.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	7.396	12000.00	1981.59	.00	7.20	.00	286.60	523.00
*	7.396	12000.00	1981.59	.01	7.20	.01	286.65	523.00
*	7.494	12000.00	1991.43	.00	9.84	.00	174.81	516.00
*	7.494	12000.00	1991.43	.01	9.84	.01	174.79	516.00
	7.577	12000.00	1999.26	.00	7.83	.00	231.13	438.00
	7.577	12000.00	1999.25	-.01	7.81	-.01	231.09	438.00
*	7.670	12000.00	2006.69	.00	7.43	.00	156.31	490.00
*	7.670	12000.00	2006.71	.02	7.46	.02	156.00	490.00
*	7.752	12000.00	2015.81	.00	9.12	.00	104.00	431.00
*	7.752	12000.00	2015.81	.00	9.10	.00	103.63	431.00
	7.798	12000.00	2022.61	.00	6.80	.00	227.99	248.00
	7.798	12000.00	2022.61	.00	6.80	.00	227.94	248.00
*	7.892	12000.00	2028.69	.00	6.08	.00	209.15	498.00
*	7.892	12000.00	2028.69	.00	6.08	.00	208.72	498.00
	8.003	12000.00	2040.56	.00	11.87	.00	319.59	581.00
	8.003	12000.00	2040.58	.01	11.89	.01	284.00	581.00
	8.095	12000.00	2049.18	.00	8.61	.00	309.04	488.00
	8.095	12000.00	2049.22	.04	8.64	.04	309.00	488.00
	8.190	12000.00	2058.62	.00	9.44	.00	393.89	500.00
	8.190	12000.00	2058.64	.02	9.42	.02	369.00	500.00
*	8.283	12000.00	2067.49	.00	8.88	.00	311.11	492.00
*	8.283	12000.00	2067.56	.06	8.92	.06	282.00	492.00
	8.380	12000.00	2076.93	.00	9.44	.00	491.52	509.00
	8.380	12000.00	2077.18	.25	9.62	.25	430.88	509.00
	8.473	12000.00	2085.84	.00	8.91	.00	304.64	496.00
	8.473	12000.00	2085.91	.07	8.73	.07	304.76	496.00
	8.567	12000.00	2095.68	.00	9.84	.00	290.72	496.00
	8.567	12000.00	2095.61	-.07	9.70	-.07	290.21	496.00
	8.667	12000.00	2104.71	.00	9.03	.00	271.37	526.00
	8.667	12000.00	2104.75	.04	9.14	.04	271.00	526.00
	8.745	12000.00	2111.12	.00	6.41	.00	546.18	412.00
	8.745	12000.00	2111.31	.19	6.56	.19	477.00	412.00
*	8.859	12000.00	2122.20	.00	11.09	.00	369.75	600.00
*	8.859	12000.00	2122.20	.00	10.89	.00	369.41	600.00

	CNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
	8.958	8130.00	2133.25	.00	11.05	.00	378.31	522.00
	8.958	8130.00	2133.24	-.01	11.04	-.01	378.00	522.00
*	9.050	8130.00	2142.16	.00	8.91	.00	286.77	490.00
*	9.050	8130.00	2142.16	.01	8.92	.01	286.65	490.00
	9.146	8130.00	2153.74	.00	11.58	.00	224.96	503.00
	9.146	8130.00	2153.73	-.01	11.57	-.01	224.94	503.00
	9.244	8130.00	2164.21	.00	10.47	.00	317.32	518.00
	9.244	8130.00	2164.21	.00	10.48	.00	317.00	518.00
	9.327	8130.00	2173.40	.00	9.19	.00	191.52	439.00
	9.327	8130.00	2173.39	-.01	9.18	-.01	191.00	439.00
	9.403	8130.00	2182.11	.00	8.71	.00	246.07	402.00
	9.403	8130.00	2182.12	.01	8.72	.01	246.00	402.00
*	9.502	8130.00	2194.67	.00	12.56	.00	330.36	524.00
*	9.502	8130.00	2194.77	.10	12.65	.10	301.75	524.00
	9.592	8130.00	2205.74	.00	11.07	.00	353.34	474.00
	9.592	8130.00	2205.77	.03	11.00	.03	353.00	474.00
*	9.661	8130.00	2213.83	.00	8.09	.00	271.32	365.00
*	9.661	8130.00	2213.83	.00	8.06	.00	271.00	365.00
*	.760	8130.00	2225.91	.00	12.09	.00	312.44	520.00
*	9.760	8130.00	2225.92	.00	12.09	.00	312.46	520.00
	9.868	8130.00	2237.79	.00	11.88	.00	430.94	570.00
	9.868	8130.00	2237.89	.09	11.97	.09	368.75	570.00
*	9.970	8130.00	2249.41	.00	11.61	.00	441.56	541.00
*	9.970	8130.00	2249.47	.06	11.58	.06	375.74	541.00
*	10.064	8130.00	2261.02	.00	11.61	.00	215.86	497.00
*	10.064	8130.00	2261.02	.00	11.55	.00	215.52	497.00
	10.165	8130.00	2272.67	.00	11.66	.00	233.34	530.00
	10.165	8130.00	2272.68	.00	11.66	.00	233.32	530.00
*	10.266	8130.00	2282.44	.00	9.77	.00	215.60	538.00
*	10.266	8130.00	2282.44	.00	9.77	.00	215.00	538.00
*	10.355	8130.00	2292.68	.00	10.24	.00	187.25	466.00
*	10.355	8130.00	2292.69	.00	10.24	.00	187.00	466.00
*	10.445	4820.00	2303.57	.00	10.89	.00	185.22	478.00
*	10.445	4820.00	2303.58	.00	10.89	.00	185.00	478.00

	SECNO	Q	CWSEL	DIFWSP	DIFWSX	DIFKWS	TOPWID	XLCH
*	[illegible].573	4820.00	2320.18	.00	16.61	.00	181.71	675.00
*	10.573	4820.00	2320.18	.01	16.61	.01	181.75	675.00
*	10.666	4820.00	2333.19	.00	13.02	.00	189.96	493.00
*	10.666	4820.00	2333.20	.00	13.01	.00	189.95	493.00
*	10.752	4820.00	2342.67	.00	9.48	.00	131.95	453.00
*	10.752	4820.00	2342.68	.01	9.48	.01	131.83	453.00
*	10.850	4820.00	2354.59	.00	11.92	.00	96.36	515.00
*	10.850	4820.00	2354.62	.03	11.94	.03	95.96	515.00
*	10.949	4820.00	2368.94	.00	14.35	.00	117.26	524.00
*	10.949	4820.00	2369.17	.23	14.55	.23	117.00	524.00
*	11.045	4820.00	2379.88	.00	10.94	.00	78.10	507.00
*	11.045	4820.00	2379.89	.01	10.72	.01	77.75	507.00
*	11.147	4820.00	2394.96	.00	15.09	.00	98.87	538.00
*	11.147	4820.00	2394.98	.01	15.09	.01	98.67	538.00
	11.266	4820.00	2412.40	.00	17.43	.00	88.33	631.00
	11.266	4820.00	2412.37	-.02	17.40	-.02	87.92	631.00
*	11.352	4820.00	2425.16	.00	12.76	.00	87.99	453.00
*	11.352	4820.00	2425.15	-.01	12.78	-.01	87.00	453.00
	[illegible].431	4820.00	2439.18	.00	14.03	.00	85.20	419.00
	[illegible].431	4820.00	2439.19	.00	14.04	.00	84.72	419.00
*	11.527	4820.00	2451.54	.00	12.36	.00	109.93	503.00
*	11.527	4820.00	2451.53	-.01	12.34	-.01	109.80	503.00
*	11.636	4820.00	2467.06	.00	15.52	.00	84.41	577.00
*	11.636	4820.00	2467.03	-.03	15.50	-.03	84.00	577.00
	11.712	4820.00	2476.47	.00	9.41	.00	139.24	398.00
	11.712	4820.00	2476.50	.03	9.47	.03	123.00	398.00
*	11.813	4820.00	2492.09	.00	15.63	.00	72.16	538.00
*	11.813	4820.00	2492.09	.00	15.60	.00	72.16	538.00
*	11.914	4820.00	2505.27	.00	13.17	.00	98.44	531.00
*	11.914	4820.00	2505.29	.02	13.19	.02	98.55	531.00
*	12.018	4820.00	2519.85	.00	14.59	.00	126.77	546.00
*	12.018	4820.00	2519.88	.03	14.60	.03	126.71	546.00

SUMMARY OF ERRORS AND SPECIAL NOTES

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CAUTION  SECNO=     .161  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .161  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=     .161  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=     .161  PROFILE= 2  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=     .177  PROFILE= 1  HYDRAULIC JUMP D.S.
CAUTION  SECNO=     .177  PROFILE= 2  HYDRAULIC JUMP D.S.

CAUTION  SECNO=    1.010  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.010  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.010  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.010  PROFILE= 2  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.110  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.110  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.110  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.110  PROFILE= 2  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.210  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.210  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.210  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.210  PROFILE= 2  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.300  PROFILE= 1  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.300  PROFILE= 1  MINIMUM SPECIFIC ENERGY
CAUTION  SECNO=    1.300  PROFILE= 2  CRITICAL DEPTH ASSUMED
CAUTION  SECNO=    1.300  PROFILE= 2  MINIMUM SPECIFIC ENERGY

CAUTION  SECNO=    1.477  PROFILE= 1  CRITICAL DEPTH ASSUMED
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CAUTION  SECNO=    1.477  PROFILE= 2  CRITICAL DEPTH ASSUMED
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FLOODWAY DATA, MORGAN CITY WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
.141	244.	3045.	4.7	1420.1	1420.1	.0
.161	293.	2638.	5.5	1421.4	1421.4	.0
.177	281.	3052.	4.7	1426.5	1426.5	.0
.187	229.	3328.	4.3	1426.6	1426.6	.0
.278	114.	1350.	10.7	1427.5	1427.5	.0
.375	115.	991.	14.5	1440.0	1440.0	.0
.460	306.	3260.	4.4	1448.2	1448.2	.0
.548	186.	1373.	10.5	1451.7	1451.7	.0
.643	192.	1874.	7.7	1462.1	1462.1	.0
.711	238.	1891.	7.6	1466.6	1466.6	.0
.806	175.	1672.	8.6	1473.3	1473.3	.0
.950	285.	1559.	9.2	1479.0	1479.0	.0
1.010	221.	1111.	13.0	1483.4	1483.4	.0
1.110	129.	994.	14.5	1491.8	1491.8	.0
1.210	104.	958.	15.0	1498.2	1498.2	.0
1.300	137.	1232.	11.7	1505.3	1505.3	.0
1.384	208.	1808.	8.0	1511.5	1511.5	.0
1.477	113.	1027.	14.0	1515.6	1515.6	.0
[illegible]574	154.	1221.	11.8	1522.0	1522.0	.0
[illegible]658	147.	1062.	13.6	1525.7	1525.7	.0
1.750	208.	1392.	10.3	1532.7	1532.7	.0
1.831	123.	1013.	14.2	1542.0	1542.0	.0
1.926	110.	996.	14.5	1551.3	1551.3	.0
2.014	105.	1029.	14.0	1557.3	1557.3	.0
2.114	146.	1340.	10.7	1564.1	1564.1	.0
2.209	147.	1082.	13.3	1567.9	1567.9	.0
2.287	152.	1165.	12.4	1573.1	1573.1	.0
2.391	243.	1353.	10.6	1579.3	1579.3	.0
2.476	161.	1164.	12.4	1586.9	1586.9	.0
2.577	109.	915.	15.7	1593.5	1593.4	.1
2.679	245.	1831.	7.9	1602.8	1602.8	.0
2.764	157.	1056.	13.4	1607.7	1607.7	.0
2.882	185.	1164.	12.2	1618.0	1618.0	.0
2.963	156.	1047.	13.6	1624.8	1624.8	.0
3.058	155.	1167.	12.2	1631.2	1631.2	.0
3.127	190.	1188.	12.0	1637.7	1637.7	.0
3.219	253.	1828.	7.8	1644.0	1644.0	.0
3.303	262.	1389.	10.2	1647.7	1647.7	.0
3.400	168.	1097.	12.9	1657.1	1657.2	-.1
3.473	185.	1692.	8.4	1662.4	1662.2	.2
3.492	129.	1001.	14.2	1670.5	1670.4	.1
3.520	370.	7625.	1.9	1686.4	1686.4	.0

FLOODWAY DATA, MORGAN CITY WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
3.537	275.	5075.	2.8	1686.4	1686.4	.0
3.569	305.	6296.	2.3	1686.6	1686.6	.0
3.673	734.	10350.	1.3	1686.7	1686.7	.0
3.764	535.	3428.	4.1	1686.8	1686.8	.0
3.862	368.	1452.	9.6	1691.1	1691.1	.0
3.946	388.	1828.	7.6	1699.5	1699.4	.1
4.049	351.	1431.	9.7	1707.1	1707.1	.0
4.149	260.	1437.	9.7	1715.8	1715.8	.0
4.254	328.	1407.	9.9	1723.3	1723.3	.0
4.344	251.	1339.	10.4	1730.1	1730.0	.1
4.437	185.	1146.	12.1	1737.8	1737.8	.0
4.540	239.	1251.	11.1	1748.1	1748.1	.0
4.634	289.	1233.	11.3	1754.6	1754.6	.0
4.727	181.	1141.	12.2	1763.6	1763.6	.0
4.825	230.	1286.	10.8	1772.3	1772.3	.0
4.918	204.	1269.	11.0	1780.0	1780.0	.0
5.044	261.	1440.	9.7	1788.3	1788.3	.0
5.156	210.	1199.	11.6	1797.7	1797.7	.0
5.250	228.	1384.	10.0	1806.0	1806.0	.0
5.334	126.	1015.	13.7	1814.2	1814.2	.0
5.434	146.	1065.	13.1	1822.2	1822.2	.0
5.529	152.	1139.	12.2	1829.7	1829.7	.0
5.625	256.	1528.	9.1	1837.3	1837.3	.0
5.726	295.	1490.	9.3	1843.4	1843.4	.0
5.808	155.	1146.	12.1	1852.3	1852.3	.0
5.905	123.	845.	14.6	1858.7	1858.7	.0
6.010	413.	2239.	5.5	1866.9	1866.9	.0
6.094	165.	980.	12.5	1873.7	1873.7	.0
6.143	127.	888.	13.9	1878.9	1878.9	.0
6.231	334.	2262.	5.3	1886.4	1886.4	.0
6.323	189.	1019.	11.8	1892.4	1892.4	.0
6.391	96.	798.	15.0	1900.4	1900.4	.0
6.450	239.	2310.	5.2	1907.5	1907.4	.1
6.514	184.	1082.	11.1	1909.8	1909.8	.0
6.616	272.	1602.	7.5	1917.4	1917.2	.2
6.707	366.	1474.	8.1	1922.5	1922.5	.0
6.798	301.	1313.	9.1	1930.7	1930.7	.0
6.901	304.	1279.	9.4	1939.1	1939.1	.0
6.987	143.	949.	12.7	1949.8	1949.8	.0
7.111	467.	2238.	5.4	1958.7	1958.7	.0
7.199	247.	1080.	11.1	1966.1	1966.1	.0
7.297	291.	1537.	7.8	1974.4	1974.4	.0

FLOODWAY DATA, MORGAN CITY WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WITHOUT FLOODWAY	DIFFERENCE
7.396	287.	1188.	10.1	1981.6	1981.6	.0
7.494	175.	976.	12.3	1991.4	1991.4	.0
7.577	231.	1340.	9.0	1999.3	1999.3	.0
7.670	156.	913.	13.1	2006.7	2006.7	.0
7.752	104.	806.	14.9	2015.8	2015.8	.0
7.798	228.	1872.	6.4	2022.6	2022.6	.0
7.892	209.	1049.	11.4	2028.7	2028.7	.0
8.003	284.	1412.	8.5	2040.6	2040.6	.0
8.095	309.	1319.	9.1	2049.2	2049.2	.0
8.190	369.	1629.	7.4	2058.6	2058.6	.0
8.283	282.	1202.	10.0	2067.6	2067.5	.1
8.380	431.	1713.	7.0	2077.1	2076.9	.2
8.473	305.	1236.	9.7	2085.9	2085.8	.1
8.567	290.	1314.	9.1	2095.7	2095.7	.0
8.667	271.	1257.	9.5	2104.7	2104.7	.0
8.745	477.	2045.	5.9	2111.3	2111.1	.2
8.859	369.	1216.	9.9	2122.2	2122.2	.0
8.958	378.	1383.	5.9	2133.2	2133.2	.0
[illegible]050	287.	857.	9.5	2142.2	2142.2	.0
[illegible]46	225.	939.	8.7	2153.7	2153.7	.0
9.244	317.	1057.	7.7	2164.2	2164.2	.0
9.327	191.	803.	10.1	2173.4	2173.4	.0
9.403	246.	958.	8.5	2182.1	2182.1	.0
9.502	302.	902.	9.0	2194.8	2194.7	.1
9.592	353.	1131.	7.2	2205.7	2205.7	.0
9.661	271.	910.	8.9	2213.8	2213.8	.0
9.760	312.	879.	9.2	2225.9	2225.9	.0
9.868	369.	1234.	6.6	2237.9	2237.8	.1
9.970	376.	1054.	7.7	2249.5	2249.4	.1
10.064	216.	788.	10.3	2261.0	2261.0	.0
10.165	233.	937.	8.7	2272.7	2272.7	.0
10.266	215.	853.	9.5	2282.4	2282.4	.0
10.355	187.	778.	10.4	2292.7	2292.7	.0
10.445	185.	627.	7.7	2303.6	2303.6	.0
10.573	182.	555.	8.7	2320.2	2320.2	.0
10.666	190.	582.	8.3	2333.2	2333.2	.0
10.752	132.	475.	10.2	2342.7	2342.7	.0
10.850	96.	424.	11.4	2354.6	2354.6	.0
10.949	117.	535.	9.0	2369.1	2368.9	.2
11.045	78.	414.	11.6	2379.9	2379.9	.0
11.147	99.	429.	11.2	2395.0	2395.0	.0
11.266	88.	485.	9.9	2412.4	2412.4	.0

FLOODWAY DATA, MORGAN CITY WASH
PROFILE NO. 2

STATION	FLOODWAY WIDTH	FLOODWAY SECTION AREA	FLOODWAY MEAN VELOCITY	WATER SURFACE ELEVATION WITH FLOODWAY	WATER SURFACE ELEVATION WITHOUT FLOODWAY	DIFFERENCE
11.352	87.	410.	11.8	2425.2	2425.2	.0
11.431	85.	422.	11.4	2439.2	2439.2	.0
11.527	110.	445.	10.8	2451.5	2451.5	.0
11.636	84.	414.	11.7	2467.1	2467.1	.0
11.712	123.	508.	9.5	2476.5	2476.5	.0
11.813	72.	384.	12.5	2492.1	2492.1	.0
11.914	99.	447.	10.8	2505.3	2505.3	.0
12.018	127.	486.	9.9	2519.9	2519.9	.0

THIS RUN EXECUTED 02-23-90

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  ERROR CORR -  01,02,03,04,05,06
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