WHITE TANKS F.R.S. No. 3
BREACH LOCATION No. 1

N

2000 0 2000 4000

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 3

MAX. DEPTH = 7.8'
TIME MAX. ELEV. = 0.0 HOURS

0.65 MILES
MAX. DEPTH = 6.6'
TIME MAX. ELEV. = 0.6 HOURS

1.33 MILES
MAX. DEPTH = 3.6'
TIME MAX. ELEV. = 0.7 HOURS

2.77 MILES
MAX. DEPTH = 2.7'
TIME MAX. ELEV. = 1.1 HOURS

3.20 MILES
MAX. DEPTH = 4.4'
TIME MAX. ELEV. = 1.2 HOURS

3.73 MILES
MAX. DEPTH = 4.0'
TIME MAX. ELEV. = 1.3 HOURS

4.25 MILES
MAX. DEPTH = 3.8'
TIME MAX. ELEV. = 1.3 HOURS

4.77 MILES
MAX. DEPTH = 4.9'
TIME MAX. ELEV. = 1.5 HOURS

5.45 MILES
MAX. DEPTH = 11.6'
TIME MAX. ELEV. = 2.2 HOURS

5.70 MILES

6.25 MILES
MAX. DEPTH = 5.1'
TIME MAX. ELEV. = 2.3 HOURS

7.25 MILES
MAX. DEPTH = 3.5'
TIME MAX. ELEV. = 2.6 HOURS

8.25 MILES
MAX. DEPTH = 4.5'
TIME MAX. ELEV. = 2.8 HOURS

9.25 MILES
MAX. DEPTH = 3.9'
TIME MAX. ELEV. = 3.1 HOURS

10.25 MILES
MAX. DEPTH = 3.6'
TIME MAX. ELEV. = 3.7 HOURS

11.25

8.3 fps
7.7 fps
5.5 fps
5.0 fps
5.0 fps
5.7 fps
5.7 fps
4.7 fps
6.5 fps
8.4 fps
5.6 fps
5.2 fps
5.5 fps
7.1 fps
3.5 fps
3.8 fps

BETHANY HOME
THOMAS ROAD
PERRYVILLE PRISON
OFF CHANNEL STORAGE
OFF CHANNEL STORAGE
INTERSTATE HIGHWAY 10 (I-10)
PHOENIX TROTTING PARK
WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4
DETENTION BASIN
LANDING FIELD (CLOSED)
Perryville
GOODYEAR
Goodyear
LIBERTY
LIMITS OF 100 YEAR FLOODPLAIN

NOTE: RESULTS SHOWN ARE FOR SENARIO # 3

Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure of Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
→ Maximum Velocity in fps

ACK ENGINEERS, INC.

Drawer 312

PLATE 1

WHITE TANKS F.R.S. No 3
BREACH LOCATION No. 2

N

2000 0 2000 4000

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 3

MAX. DEPTH = 6.7'
TIME OF MAX. ELEV. = 0.0 HOURS

9.6 fps

7.8 fps

1.33 MILES
MAX. DEPTH = 3.9'
TIME OF MAX. ELEV. = 0.7 HOURS

0.62 MILES
MAX. DEPTH = 6.9'
TIME OF MAX. ELEV. = 0.6 HOURS

6.0 fps

5.4 fps

2.77 MILES
MAX. DEPTH = 3.0'
TIME OF MAX. ELEV. = 1.0 HOURS

3.20 MILES
MAX. DEPTH = 4.7'
TIME OF MAX. ELEV. = 1.1 HOURS

1.90 MILES
MAX. DEPTH = 4.2'
TIME OF MAX. ELEV. = 0.8 HOURS

OFF CHANNEL
STORAGE

5.4 fps

6.1 fps

3.73 MILES
MAX. DEPTH = 4.6'
TIME OF MAX. ELEV. = 1.2 HOURS

4.25 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 1.3 HOURS

5.8 fps

5.2 fps

4.77 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 1.5 HOURS

4.8 fps

OFF CHANNEL STORAGE

8.3 fps

5.70

6.0 fps

5.45 MILES
MAX. DEPTH = 11.1'
TIME OF MAX. ELEV. = 2.0 HOURS

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4

6.25 MILES
MAX. DEPTH = 5.4'
TIME OF MAX. ELEV. = 2.1 HOURS

5.4 fps

5.9 fps

7.25 MILES
MAX. DEPTH = 3.8'
TIME OF MAX. ELEV. = 2.5 HOURS

NOTE: RESULTS SHOWN ARE FOR SENARIO # 3

Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure to Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
→ Maximum Velocity in fps

8.25 MILES
MAX. DEPTH = 4.8'
TIME OF MAX. ELEV. = 2.6 HOURS

7.3 fps

10.25 MILES
MAX. DEPTH = 3.8'
TIME OF MAX. ELEV. = 3.5 HOURS

3.8 fps

9.25 MILES
MAX. DEPTH = 4.2'
TIME OF MAX. ELEV. = 3.0 HOURS

3.0 fps

LIMITS OF 100 YEAR
FLOODPLAIN

ACK ENGINEERS, INC.

PLATE 2

WHITE TANKS F.R.S. No. 3
BREACH LOCATION No. 3

N

2000 0 2000 4000

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 3

MAX. DEPTH = 7.9'
TIME OF MAX. ELEV. = 0.0

10.6 fps

0.60 MILES
MAX. DEPTH = 5.6'
TIME OF MAX. ELEV. = 0.6 HOURS

5.8 fps

1.33 MILES
MAX. DEPTH = 3.6'
TIME OF MAX. ELEV. = 0.7 HOURS

5.5 fps

2.77 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 1.0 HOURS

5.0 fps

3.20 MILES
MAX. DEPTH = 4.4'
TIME OF MAX. ELEV. = 1.1 HOURS

5.1 fps

3.73 MILES
MAX. DEPTH = 4.1'
TIME OF MAX. ELEV. = 1.3 HOURS

5.7 fps

4.25 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 1.3 HOURS

5.7 fps

4.77 MILES
MAX. DEPTH = 4.7'
TIME OF MAX. ELEV. = 1.4 HOURS

1.90 MILES
MAX. DEPTH = 3.9'
TIME OF MAX. ELEV. = 0.8 HOURS
OFF CHANNEL STORAGE

4.9 fps

4.51 fps

OFF CHANNEL STORAGE

28.4 fps

5.70

5.45 MILES
MAX. DEPTH = 10.8'
TIME OF MAX. ELEV. = 2.2 HOURS

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4

5.3 fps

6.25 MILES
MAX. DEPTH = 5.3'
TIME OF MAX. ELEV. = 2.2 HOURS

5.6 fps

7.25 MILES
MAX. DEPTH = 3.5'
TIME OF MAX. ELEV. = 2.4 HOURS

7.2 fps

8.25 MILES
MAX. DEPTH = 4.5'
TIME OF MAX. ELEV. = 2.7 HOURS

3.63 fps

9.25 MILES
MAX. DEPTH = 4.0'
TIME OF MAX. ELEV. = 3.1 HOURS

10.25 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 3.6 HOURS

3.85 fps

11.25 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 3.8 HOURS

LIMITS OF 100 YEAR FLOODPLAIN

NOTE: RESULTS SHOWN ARE FOR SENARIO # 3

Elev. of Water Behind Structure Starting Failure = 1209.0
Distance From Structure of Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
→ Maximum Velocity in fps

ACK ENGINEERS, INC.

PLATE 3

PERRYVILLE PRISON

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4

DETENTION BASIN

0.10 MILES
MAX. DEPTH = 5.0'
TIME OF MAX. ELEV. = 0.0 HOURS

0.30 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 0.06 HOURS

0.70 MILES
MAX. DEPTH = 2.8'
TIME OF MAX. ELEV. = 0.20 HOURS

1.00 MILES
MAX. DEPTH = 1.3'
TIME OF MAX. ELEV. = 0.30 HOURS

1.70 MILES
MAX. DEPTH = 2.8'
TIME OF MAX. ELEV. = 0.50 HOURS

2.30 MILES
MAX. DEPTH = 2.0'
TIME OF MAX. ELEV. = 0.75 HOURS

5.50 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 2.75 HOURS

0.50 MILES
MAX. DEPTH = 2.2'
TIME OF MAX. ELEV. = 0.10 HOURS

2.85 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 1.0 HOURS

3.62 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.3 HOURS

4.50 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.9 HOURS

8.2 fps
4.4 fps
4.2 fps
4.0 fps
4.6 fps
3.7 fps
4.0 fps
4.1 fps
3.4 fps
2.7 fps
2.2 fps

LIMITS OF 100 YEAR FLOODPLAIN

ZONE AO
DEPTH 2.2 fps

ZONE A14

ZONE A14

NOTE: RESULTS SHOWN ARE FOR SENARIO # 2

Elev. of Water Behind Structure Starting Failure = 1053.0
Distance From Structure ot Cross Section Shown In Miles
Time of Maximum Water Surface Elevation Shown In Hours
Y Maximum Velocity in fps

2000 0 2000 4000

WHITE TANKS F.R.S. No. 4
BREACH LOCATION No. 3

ACK ENGINEERS, INC.

PLATE 6

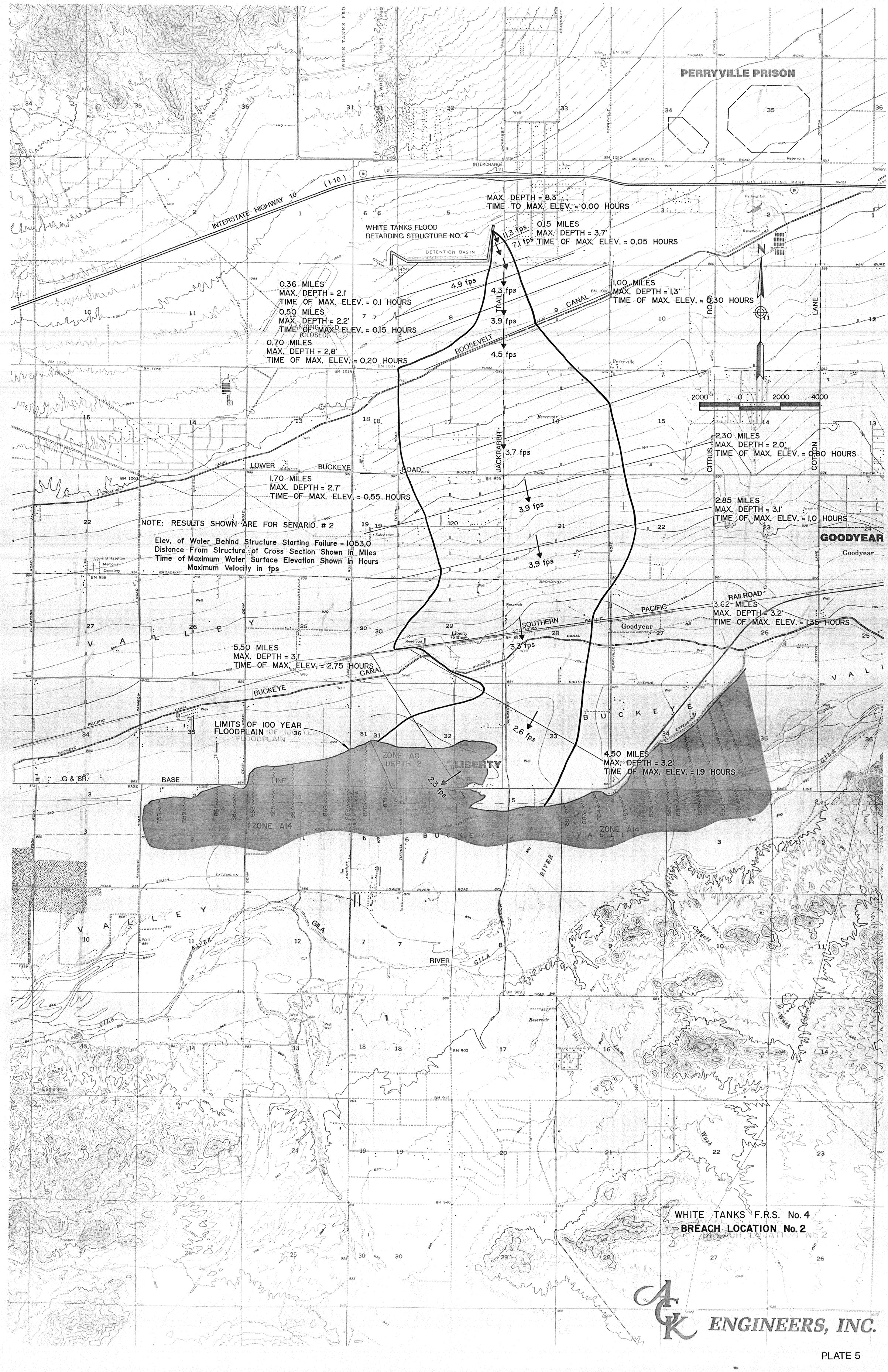
PERRYVILLE PRISON
INTERSTATE HIGHWAY 10 (I-10)
WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4
DETENTION BASIN
MAX. DEPTH = 8.3'
TIME TO MAX. ELEV. = 0.00 HOURS
11.3 fps
0.15 MILES
MAX. DEPTH = 3.7'
7.1 fps
TIME OF MAX. ELEV. = 0.05 HOURS
4.9 fps
4.3 fps
3.9 fps
4.5 fps
3.7 fps
3.9 fps
3.9 fps
3.3 fps
2.6 fps
2.3 fps
0.36 MILES
MAX. DEPTH = 2.1'
TIME OF MAX. ELEV. = 0.1 HOURS
0.50 MILES
MAX. DEPTH = 2.2'
TIME OF MAX. ELEV. = 0.15 HOURS
0.70 MILES
MAX. DEPTH = 2.8'
TIME OF MAX. ELEV. = 0.20 HOURS
1.00 MILES
MAX. DEPTH = 1.3'
TIME OF MAX. ELEV. = 0.30 HOURS
1.70 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 0.55 HOURS
2.30 MILES
MAX. DEPTH = 2.0'
TIME OF MAX. ELEV. = 0.80 HOURS
2.85 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 1.0 HOURS
3.62 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.35 HOURS
5.50 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 2.75 HOURS
4.50 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 1.9 HOURS
NOTE: RESULTS SHOWN ARE FOR SENARIO # 2
Elev. of Water Behind Structure Starting Failure = 1053.0
Distance From Structure of Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
Maximum Velocity in fps
LIMITS OF 100 YEAR FLOODPLAIN
ZONE AO DEPTH 2
ZONE A14
ZONE A14
2000 0 2000 4000
WHITE TANKS F.R.S. No. 4
BREACH LOCATION No. 2
ACK ENGINEERS, INC.

PLATE 5

PERRYVILLE PRISON

WHITE TANKS FLOOD
RETARDING STRUCTURE NO. 4
MAX. DEPTH = 5.25'
TIME TO MAX. ELEV. = 0.00 HOURS

0.28 MILES
MAX. DEPTH = 2.7'
TIME OF MAX. ELEV. = 0.1 HOURS

0.15 MILES
MAX. DEPTH = 2.6'
TIME OF MAX. ELEV. = 0.05 HOURS

0.53 MILES
MAX. DEPTH = 3.2'
TIME OF MAX. ELEV. = 0.15 HOURS

0.80 MILES
MAX. DEPTH = 1.8'
TIME OF MAX. ELEV. = 0.25 HOURS

1.70 MILES
MAX. DEPTH = 3.1'
TIME OF MAX. ELEV. = 0.55 HOURS

2.30 MILES
MAX. DEPTH = 2.4'
TIME OF MAX. ELEV. = 0.75 HOURS

2.85 MILES
MAX. DEPTH = 3.4'
TIME OF MAX. ELEV. = 0.75 HOURS

3.62 MILES
MAX. DEPTH = 3.6'
TIME OF MAX. ELEV. = 1.2 HOURS

4.50 MILES
MAX. DEPTH = 3.7'
TIME OF MAX. ELEV. = 1.65 HOURS

5.50 MILES
MAX. DEPTH = 3.5'
TIME OF MAX. ELEV. = 2.3 HOURS

8.0 fps
5.9 fps
4.5 fps
4.6 fps
4.8 fps
4.1 fps
4.5 fps
4.4 fps
3.6 fps
2.8 fps
2.6 fps

NOTE: RESULTS SHOWN ARE FOR SENARIO # 2

Elev. of Water Behind Structure Starting Failure = 1053.0
Distance From Structure ot Cross Section Shown in Miles
Time of Maximum Water Surface Elevation Shown in Hours
→ Maximum Velocity in fps

LIMITS OF 100 YEAR FLOODPLAIN

ZONE AO
DEPTH 2.6

ZONE A14

ZONE A14

INTERSTATE HIGHWAY 10 (I-10)

WHITE TANKS PRO

BEARDSLEY CANAL

JACKRABBIT TRAIL

PERRYVILLE ROAD

COTTON LANE

THOMAS ROAD

MC DOWELL ROAD

PHOENIX TROTTING PARK

VAN BUREN

ROOSEVELT CANAL

BUCKEYE CANAL

SOUTHERN PACIFIC RAILROAD

TUTHILL ROAD

DEAN ROAD

RAINBOW ROAD

WATSON ROAD

CITRUS ROAD

JACKRABBIT TRAIL

LOWER BUCKEYE ROAD

BROADWAY ROAD

SOUTHERN AVENUE

GILA RIVER

Perryville

Goodyear

Liberty

Buckeye

Corgett Wash

Eagle Mtn

GOODYEAR

WHITE TANKS F.R.S. No. 4
BREACH LOCATION No. 1

ACK ENGINEERS, INC.

PLATE 4