Welcome

To Morris Sheppard Dam at Possum Kingdom Lake

Emergency Action Plan
Agenda

• Required Actions
• Call Down Charts
• Inundation Map
• Routine Flood Operations
# Required Actions

<table>
<thead>
<tr>
<th>OBSERVATION</th>
<th>CONDITION</th>
<th>REQUIRED ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-Dam Safety Defect (observed)</td>
<td>N/A</td>
<td>Routine Surveillance / Repair</td>
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<tr>
<td></td>
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<td>Project Manager consult Tech Services (as required)</td>
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<tr>
<td>Potential Dam Safety Defect (Suspected)</td>
<td>Watch</td>
<td>Priority Repair/Mitigation Executed</td>
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<td>Tech Services Consultation</td>
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<td></td>
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<td>EAO Notification</td>
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<tr>
<td></td>
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<td>Emergency Action Officer (EAO)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Activate Emergency Action Plan</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Assemble BRA Emergency Operations Center</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Initiate Watch Notification if directed by BRA EOC</td>
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<tr>
<td>Dam Safety Defect (Verified)</td>
<td>Dam Failure Warning (Within 5 Days)</td>
<td>Emergency Repair/Mitigation Executed</td>
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<tr>
<td></td>
<td></td>
<td>Complete all required actions for &quot;Watch&quot; Condition</td>
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<td></td>
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<td>EAO Initiates &quot;Dam Failure Warning&quot; Notification</td>
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<td>PK Ops Center Stands Up</td>
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<tr>
<td>Critical Dam Safety Defect (Verified)</td>
<td>Imminent Dam Failure</td>
<td>Project Manager activates EAP</td>
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<td>Project Manager Initiates&quot; Imminent Dam Failure&quot; Notification</td>
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<td></td>
<td></td>
<td>EAO assembles BRA EOC</td>
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<tr>
<td></td>
<td></td>
<td>EAO follow-up with agency notifications</td>
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<tr>
<td></td>
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<td>Emergency repair/mitigation if possible</td>
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<td></td>
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<td>PK OPS Center Stands Up</td>
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<tr>
<td>Uncontrolled Water Release</td>
<td>Dam Failure</td>
<td>Project Manager Initiates&quot; Dam Failure&quot; Notification</td>
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<td></td>
<td></td>
<td>EAO assembles BRA EOC</td>
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<tr>
<td></td>
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<td>EOC follow-up with agency notifications</td>
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<td></td>
<td></td>
<td>Emergency repair/mitigation if possible</td>
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<tr>
<td></td>
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<td>PK OPS Center Stands Up</td>
</tr>
</tbody>
</table>
Flowchart
Possum Kingdom Lake
Imminent/Actual Dam Failure

1. DPS Warning Point Mineral Wells 24 Hours
   940-325-1665
   DPS District Coordinator Rafael Reyes
   940-452-7757
2. Alternate DPS Warning Point Garland
   214-861-2040

3. LOCAL EMERGENCY MANAGEMENT OFFICIALS
   a. Palo Pinto County (Palo Pinto)
      Judge David Nicklas
      940-659-1253
      Cell 940-659-8208
      PPSO Dispatcher 940-659-2085
      Chad Jordan (EMC)
      940-325-5762
      EMCC - Cell 940-329-8052
   b. Parker County (Weatherford)
      Judge Mark Riley - Office
      817-598-6148
      PCSO Dispatcher 817-599-3213
      George Teague (EMC)
      817-598-0969
      Cell 817-613-6587
      Janice Stroud Asst. EMC 817-629-0056
   c. Hood County (Granbury)
      Judge Cockerham
      817-579-3200
      Brad Brunett, ext. 3171
      HCSO Dispatcher 817-573-3307
      Ray Wilson (EMC) 817-579-3335
      Cell 817-614-5055
      TS Manager 254-707-0968
      Ray Wilson Cell 817-614-5055
      Terry Lopas, ext. 3181
      817-614-5055
      Cell 817-614-5055
      Mike McClendon, ext. 3169
      Cell 817-573-3307
      Upper Basin Manager 254-723-6197
   d. Fort Worth District (SWF-EM)
      Chief, Dorotha Murphy
      817-866-1612
      Cell 817-304-4994
      Jeff Mahaffey 817-866-1644
      2. Emergency Operations Center
      Disaster Dispatcher 817-866-1501
      OPS & Maint. Terry Bachim
      Office 817-866-1606
      Cell 817-866-1641
      Montey Jetton 817-866-1641
      Fort Worth District (SWF-EM)

4. NATIONAL WEATHER SERVICE
   1. River Forecasting Center - Unlisted 16 hrs (6am-10pm)
      Mark Null - Chief x 322
      (Unlisted) Office 817-831-3289
      (Unlisted) Cell 817-773-8310
      Greg Waller x323
      Cell 817-797-0873
   2. Weather Forecasting Office x 7
      Unlisted 24 hrs 817-831-1581
      Tom Bradshaw - Chief 222
      Unlisted 24-hrs 817-831-1157
      Mark Fox - WCM
      Unlisted 24-hrs 817-831-1574
      Cell 817-680-2857
      Bob Carle - Service Hydrologist
      Unlisted 24 hrs 817-831-1668
      Cell 817-680-2857

5. TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
   1. Emergency Response - Austin, Texas
      Clearinghouse for all Regional Offices
      CEM 1-800-832-8224
   2. Dam Safety Team
      24-hr Internal Line 888-777-3186
      Day time number 512-239-0326

6. DOWNSTREAM RESIDENTS
   1. TX Parks & Wildlife Fish Hatchery
      940-779-2301
   2. The Blackboard Connect/Downstream Notification

7. TEXAS DEPARTMENT OF PUBLIC SAFETY
   [PRIMARY CONTACT (WILL COORDINATE ALL LOCAL AGENCIES)]
   1. DPS Warning Point Mineral Wells 24 Hours
      940-325-1665
      DPS District Coordinator Rafael Reyes
      940-452-7757
   2. Alternate DPS Warning Point Garland
      214-861-2040

8. U.S. ARMY CORPS OF ENGINEERS - OPERATIONS DIVISION
   1. Emergency Management Branch
      Office 817-886-1612
      Cell 817-304-4994
      Jeff Mahaffey 817-866-1444
   2. Emergency Operations Center
      Disaster Dispatcher 817-866-1501
   3. OPS & Maint. Terry Bachim
      Office 817-866-1606
      Cell 817-866-1641

TEXAS DEPARTMENT OF PUBLIC SAFETY
BRA CENTRAL OFFICE
BRA LAKE PROJECT MANAGER
Mike Illtis
Office 940-779-2321
Cell 940-659-8483

Robert Box
1st Alternate Contact
Office 940-779-2321
Cell 940-329-0506

2. BRA CENTRAL OFFICE
   Office 254-761-3100
   Voice Mail 254-761-3140

   During Duty Hours
   During Non-Duty Hours

   Contact the first person, that person will alert the others:
   Cell #s
   1. Steve Vaughn, ext. 3136
      Emergency Action Coordinator 254-716-3933
   2. Brad Brunett, ext. 3171
      Water Services Manager 254-707-0968
   3. Terry Lopas, ext. 3181
      TS Manager 254-855-5336
   4. Mike McClendon, ext. 3169
      Upper Basin Manager 254-723-6197
   5. David Collinsworth, ext. 3102
      Regional Manager, Central/Lower Basins 254-366-4933
   6. Phil Ford, ext. 3101/3194
      CEO/General Manager 254-640-0402
   7. Jeffery Posvar, ext. 3137
      Project Engineer 254-869-2511
   8. Judi Pierce, ext. 3103
      Public Information Officer 254-855-8228

   6. DOWNSTREAM RESIDENTS
      1. TX Parks & Wildlife Fish Hatchery
         940-779-2301
      2. The Blackboard Connect/Downstream Notification

06/11/2018
<table>
<thead>
<tr>
<th><strong>UPSTREAM RESERVOIR: HUBBARD CREEK</strong></th>
<th><strong>UPSTREAM RESERVOIR: LAKE GRAHAM-EDDLEMAN</strong></th>
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</thead>
<tbody>
<tr>
<td>(West Central Texas Municipal Water System)</td>
<td>Uncontrolled Spillway</td>
</tr>
<tr>
<td>General Manager: Chris Wingert</td>
<td>City Manager: Brandon Anderson</td>
</tr>
<tr>
<td>Office 325-673-8254</td>
<td>Office 940-549-3324</td>
</tr>
<tr>
<td>Cell 325-627-3694</td>
<td>Cell 940-521-2301</td>
</tr>
<tr>
<td>Budget Officer: Christy Ferguson</td>
<td>City Secretary: David Maddy</td>
</tr>
<tr>
<td>Cell 325-665-5322</td>
<td>Cell 940-224-9283</td>
</tr>
<tr>
<td>(8-3) Lake Shop 254-559-3677</td>
<td></td>
</tr>
<tr>
<td>Asst. GM: Ronnie Tilly</td>
<td></td>
</tr>
<tr>
<td>Cell 254-477-4139</td>
<td></td>
</tr>
<tr>
<td>Water Transmission: Keith Harrison</td>
<td></td>
</tr>
<tr>
<td>Cell 254-246-1622</td>
<td></td>
</tr>
<tr>
<td>Water Pump/Operations: Keith Harrison</td>
<td></td>
</tr>
<tr>
<td>Pump Station 254-559-9691</td>
<td></td>
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<tr>
<td>Pump On Call 254-522-2010</td>
<td></td>
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<tr>
<td>Lake On Call 254-522-1774</td>
<td></td>
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<tr>
<td>24-hr Employee On-Call Emer. Response</td>
<td></td>
</tr>
<tr>
<td>Office 325-673-8254</td>
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</tr>
<tr>
<td>toll free number to office 866-880-8254</td>
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<td>9</td>
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<tr>
<td><strong>TEXAS DEPARTMENT OF TRANSPORTATION - DISTRICT OFFICE</strong></td>
<td><strong>Ft. Worth, Texas</strong></td>
</tr>
<tr>
<td></td>
<td><strong>Office</strong> 817-370-6500</td>
</tr>
<tr>
<td></td>
<td><strong>Dam Safety</strong> Office 817-370-6521</td>
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<tr>
<td></td>
<td>Ricardo Gonzalas, Director of Maintenance</td>
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Flowchart
Possum Kingdom Lake
Watch/Possible Dam Failure (Continued)

9 UPSTREAM RESERVOIR: HUBBARD CREEK

(West Central Texas Municipal Water System)

- General Manager: Chris Wingert
  - Office: 325-673-8254
  - Cell: 325-627-3694
- Budget Officer: Christy Ferguson
  - Cell: 325-665-5322
- Asst. GM: Ronnie Tilly
  - Cell: 254-477-4139
- Water Transmission: Keith Harrison
  - Cell: 254-246-1622
- Water Pump/Operations: Keith Harrison
  - Pump Station: 254-559-9691
  - Pump On Call: 254-522-2010
  - Lake On Call: 254-522-1774
- 24-hr Employee On-Call Emer. Response
  - Office: 325-673-8254
- Toll free number to office: 866-880-8254

10 UPSTREAM RESERVOIR: LAKE GRAHAM-EDDLEMAN

- Uncontrolled Spillway

- City Manager: Brandon Anderson
  - Office: 940-549-3324
  - Cell: 940-521-2301
- City Secretary: David Maddy
  - Cell: 940-224-9283

11 TEXAS DEPARTMENT OF TRANSPORTATION - DISTRICT OFFICE

- Ft. Worth, Texas
  - Office: 817-370-6500
  - Dam Safety
    - Office: 817-370-6521

  - Ricardo Gonzalas, Director of Maintenance

UPDATES/CHANGES
NO ANSWER/COULD NOT REACH
## WATCH CONDITION FOR MORRIS SHEPPARD DAM

<table>
<thead>
<tr>
<th>Observer</th>
<th>Area Project Manager</th>
<th>940-779-2321</th>
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<tbody>
<tr>
<td></td>
<td>Alternate Chief Lake Ranger</td>
<td>940-779-2321</td>
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<tr>
<td></td>
<td>24 hr: 940-659-8463</td>
<td>24 hr: 940-325-6603 #1</td>
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### BRA Emergency Action Officer

<table>
<thead>
<tr>
<th>Action Officer</th>
<th>Office</th>
<th>254-761-3136</th>
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<td></td>
<td>24 hr: 254-716-3993</td>
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### BRA Emergency Operations Center

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<tr>
<th>Gen Manager</th>
<th>Office</th>
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<td>24 hr: 254-540-0402</td>
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<td>Upper Basin Mgr</td>
<td>Office</td>
<td>254-761-3169</td>
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<td>24 hr: 254-723-6197</td>
<td>24 hr: 254-761-3103</td>
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<td>Central / Lower Basin Mgr</td>
<td>Office</td>
<td>512-567-6949</td>
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<td>Tech Services</td>
<td>Office</td>
<td>254-761-3161</td>
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<td>24 hr: 254-761-3161</td>
<td>24 hr: 254-859-0385</td>
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<td>Water Services</td>
<td>Office</td>
<td>254-761-3171</td>
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<td>24 hr: 254-761-3171</td>
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<tr>
<td>Public Information Officer</td>
<td>Office</td>
<td>254-859-0385</td>
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<td>24 hr: 254-859-0385</td>
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<td>General Council</td>
<td>Office</td>
<td>254-761-3120</td>
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<td>Information Technology</td>
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<td>254-644-6869</td>
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### Texas Parks & Wildlife

- Fish Hatchery at FK Lake: 940-779-2301
- Warning Point Mineral Wells: 24 hr: (940) 325-6603 #1

### Palo Pinto Emergency Management Coordinator

- Office: (940) 325-5762
  - 24 hr: (214) 643-5301
  - (Alternate) Palo Pinto Sheriff Dispatch: 24 hr: (214) 656-2995

### Parker County Emergency Management Coordinator

- Office: (817) 598-0999
  - 24 hr: (817) 594-3212

### Hood County Emergency Management Coordinator

- Office: (817) 679-3307
  - (Alternate) Hood Co. Sheriff Dispatch: 24 hr: (817) 679-3307

### WATCH CONDITION MESSAGE

A defect directly affecting Dam Safety has been reported and is being investigated by the Brazos River Authority. At this time there are no actions necessary for coordinating agencies but County Emergency Managers are encouraged to review emergency action plans. Should situation warrant, additional information will be forth coming.
WARNING CONDITION

DAM FAILURE WARNING
(Failure anticipated within 5 days)

Observer

Area Project Manager
Office 940-779-2921
24 hr 940-559-5485
 Alternate
Chief Lake Ranger
Office 940-779-2921
24 hr 940-779-2200

BRA Emergency Action Officer
Action Officer
Office 24 hr 254-771-3136
24 hr 254-771-3993

BRA Emergency Operations Center
Gen Manager
Office 254-761-3101
24 hr 254-690-0402
 Upper Basin Mgr
Office 254-761-3169
24 hr 254-727-6997
 Central / Lower Basin Mgr
Office 254-761-3102/3180
24 hr 512-559-6947
 Tech Services
Office 254-761-3181
24 hr 254-550-5300
 Water Services
Office 254-761-3171
24 hr 254-764-9068
 Public Information Officer
Office 254-761-3103
24 hr 254-855-8228
 General Council
Office 254-801-5120
24 hr 254-646-5089
 Information Technology
Office 24 hr
254-801-2697
 Financial Admin
Office 24 hr

Texas Parks & Wildlife
940-779-2301
Sally Hschtny at PL 940-779-2301

GPS Warning Point Mineral Wells
24 hr 940-325-9933
(Alternate)
Palo Pinto Emergency Management Coordinator
Office 940-325-9933
24 hr 940-325-9933
(Alternate)
Palo Pinto Sheriff Dispatch
24 hr 940-325-9933

Parker County Emergency Management Coordinator
Office 972-588-0989
24 hr 972-588-0989
(Alternate)
Parker Co. Sheriff Dispatch
24 hr 972-588-0989

Hood County Emergency Management Coordinator
Office 972-587-3007
24 hr 972-587-3007
(Alternate)
Hood Co. Sheriff Dispatch
24 hr 972-587-3007

WARNING CONDITION

A defect directly affecting Dam Safety has been reported and verified that may result in the failure of Morris Shepard Dam located in Palo Pinto County within 5 days. Failure of the dam will result in uncontrolled water release, violent and rapid water rise within the inundation area. BRA advise County Emergency Managers to activate emergency management plans and consider evacuation of the affected areas. In the event of actual dam failure probable maximum flood waters will reach the following landmarks in the time indicated.

TIME WATER WILL ARRIVE

[PMF BREACH]
Bridge over Hwy 118 - Palo Pinto - Breach + 1 minute
Bridge over Hwy 4 - Palo Pinto - Breach + 2 Hours
Bridge over 281 - Palo Pinto - Parker - Breach + 8 Hours

06/11/2018
# IMMINENT FAILURE

**Texas Parks & Wildlife**

<table>
<thead>
<tr>
<th>National Weather Service</th>
</tr>
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<tbody>
<tr>
<td>1 West Gulf River Forecast Center /Office 6am - 10pm</td>
</tr>
<tr>
<td>a) Office 6am - 10pm 817-381-3289 #7</td>
</tr>
<tr>
<td>b) Hydrologist in charge Ext 302</td>
</tr>
<tr>
<td>Unlisted Cell 817-505-5193</td>
</tr>
<tr>
<td>2 Weather Forecast Office Fort Worth</td>
</tr>
<tr>
<td>a) 24 Hour 817-831-1031</td>
</tr>
<tr>
<td>b) Meteorologist in charge Ext 222 817-831-1157</td>
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</tbody>
</table>

**Texas Commission on Environmental Quality**

| 1 Dam Safety Team /Office 24 Hour 512-239-2507 |
| 1 Dam Safety Director of Maintenance /Office 817-370-6502 |

**U.S. Army Corps**

| 1 Operations Division Ft Worth District /Office 817-886-1444 |
| 2 Emergency Management Branch /Cell 817-781-4569 |
| 3 Chief Emergency Operations Center /Office 817-886-1696 |

**Texas Department of Transportation, Fort Worth**

| 1 Dam Safety Director of Maintenance /Office 817-370-6502 |

**Federal Regulatory Commission**

<table>
<thead>
<tr>
<th>1 Regional Engineer</th>
</tr>
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<tbody>
<tr>
<td>a) Office 587-245-3075</td>
</tr>
<tr>
<td>b) Cell 404-955-1271</td>
</tr>
</tbody>
</table>

**Lake Granbury**

| 817-247-9774 |

**Lake Limestone**

| 903-367-1926 |

**Hobbs Creek**

| 7 | 7 |

**Upstream Lakes**

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### BRA Emergency Action Officer

<table>
<thead>
<tr>
<th>Action Officer</th>
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<tbody>
<tr>
<td>Office 254-781-3136</td>
</tr>
<tr>
<td>24 Hour 254-781-3383</td>
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### BRA Emergency Operations Center

<table>
<thead>
<tr>
<th>Gen Manager</th>
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</thead>
<tbody>
<tr>
<td>Office 254-781-3101</td>
</tr>
<tr>
<td>24 Hour 254-640-0402</td>
</tr>
<tr>
<td>Upper Basin Mgr</td>
</tr>
<tr>
<td>Office 254-781-3168</td>
</tr>
<tr>
<td>24 Hour 254-723-6197</td>
</tr>
<tr>
<td>Central /Lower Basin Mgr</td>
</tr>
<tr>
<td>Office 254-781-3102/3130</td>
</tr>
<tr>
<td>24 Hour 512-550-8947</td>
</tr>
<tr>
<td>Tech Services</td>
</tr>
<tr>
<td>Office 254-781-3161</td>
</tr>
<tr>
<td>24 Hour 254-855-5336</td>
</tr>
<tr>
<td>Water Services</td>
</tr>
<tr>
<td>Office 254-781-3177</td>
</tr>
<tr>
<td>24 Hour 254-764-9068</td>
</tr>
<tr>
<td>Public Information Officer</td>
</tr>
<tr>
<td>Office 254-781-3103</td>
</tr>
<tr>
<td>24 Hour 254-805-8228</td>
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<tr>
<td>General Council</td>
</tr>
<tr>
<td>Office 254-781-3160</td>
</tr>
<tr>
<td>24 Hour 254-644-5955</td>
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<tr>
<td>Information Technology</td>
</tr>
<tr>
<td>Office 254-781-3200</td>
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<tr>
<td>24 Hour 254-781-3320</td>
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<tr>
<td>Financial Admin</td>
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<tr>
<td>Office 254-781-3320</td>
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<tr>
<td>24 Hour 254-781-3320</td>
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### Observer

<table>
<thead>
<tr>
<th>Area Project Manager</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office 940-779-2321</td>
</tr>
<tr>
<td>24 Hour 940-655-8483</td>
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<tr>
<td>Alternate</td>
</tr>
<tr>
<td>Cliff Lake Ranger</td>
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<tr>
<td>Office 940-779-2321</td>
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<tr>
<td>24 Hour 940-329-0906</td>
</tr>
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### Palo Pinto Emergency Management Coordinator

| Office 940-329-5132 |
| 24 Hour (214) 843-5301 |
| (Alternate) |
| Palo Pinto Sheriff Dispatch |
| 24 Hour (800) 950-2085 |

---

### Parker County Emergency Management Coordinator

| Office 817-501-0869 |
| 24 Hour (817) 504-3212 |
| (Alternate) |
| Parker Co. Sheriff Dispatch |
| 24 Hour (817) 579-3307 |

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## Imminent Dam Failure Message

Critical Dam Condition has been verified on Morris Sheppard Dam at PK Lake in Palo Pinto County, failure of the Dam is imminent (may occur at anytime). Failure of the dam will result in uncontrolled water release, violent and rapid water rise, within the inundation area. Significant property loss, and/or injury/death may occur to persons in the inundation area. BRA advises County Emergency Managers to activate Emergency Management Plans and recommends evacuation of inundation areas.

### TIME WATER WILL ARRIVE (PMF BREACH)

- **Bridge over Highway 16** | Palo Pinto | Breach + 1 minute
- **Bridge over Hwy 4** | Palo Pinto | Breach + 2 Hours
- **Bridge over 281** | Palo Pinto – Parker | Breach + 8 Hours
- **Bridge over FM 238D** | Parker - Hood | Breach + 17 Hours
DAM FAILURE

Texas Parks & Wildlife

BRA Emergency Action Officer

Texas Commission on Environmental Quality

BRA Emergency Operations Center

DAM FAILURE

Observer

Area Project Manager

Texas Department of Transportation, Fort Worth

BRA Emergency Action Officer

Lakes

National Weather Service

Fish Hatchery at PK Lake 640-779-2301

1 Weather Forecast Office Fort Worth

BRA Emergency Operations Center

a) Office 817-831-3293 #7
b) Hydrologist in charge Ext 322
Unlisted Cell 817-503-9150
2 Weather Forecast Office Fort Worth

1 Dam Safety Team 24 Hour - 512-238-2507

24 Hour 817-831-1561
b) Meteorologist in charge Ext 222 817-831-1157

Texas Commission on Environmental Quality

1 Dam Safety Team 24 Hour - 512-238-2507

BRA Emergency Action Officer

U.S. Army Corps of Engineers

Area Project Manager

Office 940-779-2311

24 Hour 940-659-6483

Alternate

Chief Lake Ranger

Office 940-778-2331

24 Hour 940-329-0560

Public Notification

Public Notification

Texas Department of Transportation, Fort Worth

1 Dam Safety Director of Maintenance / Office 817-370-4500

Federal Regulatory Commission

1 Regional Engineer

a) Office 675-246-3076
b) Cell 404-661-1271

Lake Granbury 817-219-4734

Lake Limestone 675-381-7005

Upstream Lakes

Hubbard Creek 817-797-3816

Lake Graham 817-797-3816

Dam Failure Message:

Critical Dam Defect has been verified on Morris Sheppard Dam at PK Lake in Palo Pinto County, the Dam has failed, the failure of the dam will result in uncontrolled water release, violent and rapid water rise, within the inundation areas.

Significant property loss, and injury/death to persons in the inundation area. BBA advises County Emergency Managers to activate Emergency Management Plans and recommends evacuation of inundation areas.

TIME WATER WILL ARRIVE (FM BREACH)

Bridge over Highway 16 Palo Pinto Breach + 1 minute

Bridge over Hwy 4 Palo Pinto Breach + 2 Hours

Bridge over 281 Palo Pinto - Parker Breach + 8 Hours

Bridge over FM 2580 Parker - Hood Breach + 17 Hours

06/11/2018
INUNDATION MAP
Questions or Comments