Soil and Water Conservation District (SWCD) Dam Inundation Mapping and Emergency Action Planning Project

Water and Natural Resources Interim Committee Meeting August 31, 2015
Project Overview
“2014 Work New Mexico Act”
HB 55

Under Section 31 (New Mexico State University Projects – Severance Tax Bonds):

“One million dollars ($1,000,000) to plan, design and construct safety improvements and dam rehabilitation, including inundation mapping, for soil and water conservation district dams statewide.”
Soil and Water Conservation Districts

• 73-20-44: A “soil and water conservation district,” organized under or perpetuated by the provisions of the Soil and Water Conservation District Act [73-20-25 NMSA 1978], is a governmental subdivision of the state, a public body politic and corporate.”

• 47 SWCDs statewide tasked with:
  – (1) control and prevent soil erosion;
  – (2) prevent floodwater and sediment damage;
  – (3) further the conservation, development, beneficial application and proper disposal of water;
  – (4) promote the use of impounded water for recreation, propagation of fish and wildlife, irrigation and for urban and industrial needs; and
  – (5) by the application of these measures, conserve and develop the natural resources of the state;
  – (6) provide for flood control, preserve wildlife, protect the tax base and promote the health, safety and general welfare of the people of New Mexico.
Scope of Work

• Task 1: Data Collection
• Task 2: Flood Hydrology Report
• Task 3: Dam Breach Report
• Task 4: Inundation Mapping
• Task 5: Emergency Action Plan
  – Only for Pecos Arroyo W.S. Site 1 Dam and Hatch Valley Arroyos Dam No. 5.
Dam Locations
Emergency Action Plans for Dams

- Prepared following New Mexico Office of the State Engineer Dam Safety Bureau template (generally follows NRCS format)
  - Step 1 – Event Detection
  - Step 2 – Emergency Level Determination
    - Unusual event
    - Potential dam failure
    - Active or imminent dam failure
  - Step 3 – Notification and Communication
    - Notification flow chart
    - Script
  - Step 4 - Expected Actions
    - Monitor
    - Implement mitigation
    - Evacuate
  - Step 5 – Termination and Follow-up
EMERGENCY LEVEL 1 NOTIFICATION

NON-EMERGENCY: UNUSUAL EVENT, SLOWLY DEVELOPING

DAM OWNER - TIERRA Y MONTES SOIL CONSERVATION DISTRICT
Frances Martinez - District Manager
505-425-9088 (Office)
505-617-0665 (Cell)
Alternate
Stephen Reichert - Project Facilitator
505-425-9088 (Office)
505-652-0892 (Cell)

OWNER'S ENGINEER - NRCS
Brian Schwebel
505-761-4490 (Office)
505-401-3663 (Cell)
Alternate
Kenneth Alcon
District Conservationist
505-425-6661 ext. 108 (Office)
575-779-6497 (Cell)

OFFICE OF THE STATE ENGINEER
Charles Thompson
Dam Safety Bureau Chief
505-827-6111 (Office)
505-383-4134 (Direct)
505-660-3313 (Cell)
Alternate
NMEOC 24-hr Duty Officer
505-476-9955

LOCAL EMERGENCY OFFICIAL - SAN MIGUEL COUNTY
Dennis English
Emergency Manager
505-425-6190 (Office)
505-429-4577 (Cell)
Alternate
Kurt Parkinson
NMS Coordinator
505-425-6190 (Office)
505-918-3354 (Cell)

Note:
1, 2, 3, etc. denotes call sequence

Legend:
Calls by Owner

See “Communication Tree” side tab for preassigned messages.

See “Emergency Service Contacts” Tab for contact information for backup to the persons shown above and other emergency personnel.
<table>
<thead>
<tr>
<th>Site Name</th>
<th>Start Date</th>
<th>End Date</th>
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</thead>
<tbody>
<tr>
<td>Prop Canyon Site No. 1 Dam</td>
<td>5/18/15</td>
<td>12/18/15</td>
</tr>
<tr>
<td>Hatch Valley Arroyos Dam No. 5</td>
<td>3/23/15</td>
<td>11/13/15</td>
</tr>
<tr>
<td>Hackberry Draw Site No. 2 Dam</td>
<td>5/29/15</td>
<td>12/31/15</td>
</tr>
<tr>
<td>Upper Rio Hondo Site 1 Dam</td>
<td>4/27/15</td>
<td>12/4/15</td>
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<tr>
<td>Pecos Arroyo Watershed Site 1 Dam</td>
<td>3/23/15</td>
<td>10/30/15</td>
</tr>
</tbody>
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Our Next Steps

1. Complete 1st Contract
2. Leverage Additional Funding
3. Complete Contracts for Additional EAPs
4. 58 Compliant Jurisdictional Dams
Questions