

# DAM EVALUATION REPORT



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## Five Mile Dam (Hays County Park Lake Dam) TX04659

### GENERAL INFORMATION

INVENTORY No.:	TX04659	WATER RIGHT AUTHORIZATION:	N/A
OWNER:	HAYS COUNTY		
STREAM:	BLANCO RIVER		
BASIN:	GUADALUPE RIVER	COUNTY:	HAYS
GENERAL LOCATION:	APPROXIMATELY 3.5 MILES SOUTH OF KYLE, TEXAS		
DAM HEIGHT:	8 FT	DOWNSTREAM HAZARD RATING:	LOW
NORMAL CAPACITY:	60 AC-FT	MAXIMUM CAPACITY:	60 AC-FT
NORMAL WATER LEVEL:	VARIES		
CURRENT WATER LEVEL:	DRY		
PREVIOUS INSPECTION DATE:	OCTOBER 12, 2016		
CURRENT INSPECTION DATE:	JANUARY 8, 2025		
INSPECTION BY FNI PERSONNEL:	JOSHUA MATA, P.E., JAKE DONAHO, P.E.		

### SUMMARY

Five Mile Dam (also known as Hays County Park Lake Dam) was inspected by Freese and Nichols (FNI) on the morning of January 8, 2025. Based on visual inspection, the dam is in fair condition.

The problems noted in the **Current Evaluation** section below do not place the structure in immediate danger; however, if left uncorrected, these deficiencies could lead to costlier repairs in the future. Detailed recommendations are included in the **Recommendations** section of this report. All directions noted (right and left) in this report are from the perspective of an observer looking downstream.

An aerial photograph of the site location is shown as Figure 1. A photo log and location map are included as Appendix A. The most recent inspection report, dated 2016, is included as Appendix B.

### BACKGROUND

Five Mile Dam was constructed in 1964. It is located on the Blanco River approximately 3.5 miles south of Kyle, Texas. It consists of a run-of-river limestone mortar (masonry) channel dam. The dam

is a gravity dam with a vertical upstream face and a stepped downstream face. The dam is a run-of-river channel dam that allows normal river flows to discharge over the crest. There are two low-flow outlets, but these were infilled with concrete for public safety by Hays County.

The 8-foot high, 315-foot-long structure has a storage capacity of approximately 60 acre-feet. The dam is currently classified by TCEQ as a small size, low-hazard dam which impounds water for the purpose of recreational use and flood control.

## PREVIOUS EVALUATIONS

A previous inspection of the dam was performed on 10/12/2016. A summary of recommendations from the previous inspection report in 2016 along with the status of those recommendations (in italics) is as follows:

- Monitor the seepage at the left abutment and the eroded area at the right abutment for changes over time. *Monitoring ongoing.*
- An Operations and Maintenance Plan should be developed specific to this dam and be in accordance with TCEQ's Guidelines for Operations and Maintenance of Dams in Texas. *Not Completed.*
- When the lake level is low, perform a visual completion of the upstream face. *Complete.*

## CURRENT EVALUATION

Figure 1 shows an aerial photograph of the dam and the surrounding areas. At the time of the inspection, the reservoir was dry. The weather was cloudy, near 35 degrees F, and the ground was dry due to no precipitation over the previous week. The inspection of Five Mile Dam was performed by Freese and Nichols, Inc. (FNI) on January 8, 202 by Joshua Mata, PE and Jake Donaho, PE.

### ***Crest of Embankment***

The dam consists of a gravity dam that is approximately 315 feet long with a maximum height of 8-feet and a crest width of approximately 3.5 feet. (Photo No. 1) The crest of the dam was found to be in fair condition.

- The crest has some minor erosion on the upstream side that has developed over time.
- There is minor cracking on the dam crest, but this does not currently present a dam safety issue.
- There were no signs of depressions, bulges, or misalignment noted on the crest of the dam.



*Photo No. 1: View of dam crest*

### ***Left Abutment***

The left abutment consists of a cylindrical gravity structure that connects to the dam and a limestone mortar wall that extends into the bank. The left abutment was found to be in fair condition.

- There is scour erosion on the upstream side of the left abutment (Photo No. 2). This area does not require immediate repair but should be monitored for changes over time during regularly planned maintenance and inspections of the dam.
- The 2016 inspection noted minor seepage under the left abutment at the connection of the cylindrical gravity structure to the bank wall. No seepage was observed due to the lake being dry. The seepage observed in 2016 may be related to the scour erosion noted in this inspection.



*Photo No. 2: Scour erosion on upstream side of left abutment*

### ***Right Abutment***

The right abutment consists of a cylindrical gravity structure that is founded on the shoreline. The right abutment was found to be in fair condition.

- There is an 8-foot-wide, 26-inch-tall, eroded section on the groin downstream at the right abutment (Photo No. 3). The size of the eroded area is similar to the 2016 inspection.



*Photo No. 3: Eroded section at the right abutment*



### ***Upstream Face of Masonry***

The upstream face of masonry is a vertical face wall. The 2016 report noted a sunken log in the upstream face of the dam (Photo No. 4). With the lake dry, the log appears to have been there since the dam was constructed. The upstream face of masonry is in fair condition.

- There is some minor scour (Photo No. 5), approximately 1 foot deep, on the upstream toe of the dam on the right side of the decommissioned low flow outlet, which is typical for dams of this age.



*Photo No. 4: Log embedded on the upstream face*



*Photo No. 5: Minor scour on upstream toe*

### ***Downstream Face of Masonry***

The downstream face of masonry is a stepped vertical face. The downstream face is in poor condition.

- There is a 22-foot-wide scour area approximately 5 to 6 feet below the downstream toe of the dam (Photo No. 6), near the left abutment. The amount of scour in this area appears similar to the 2016 inspection. Since the scour erosion does not appear to be changing significantly over that time, no issues with the stability and integrity of the dam are evident. This area should be monitored for changes over time during regularly-planned maintenance and inspections of the dam
- There is a 5-foot-wide section of the downstream face that was recently broken off (Photo No. 7). This section appears to be part of the overhang above the 22-foot-wide scour area.
- There are multiple spots with 2 to 3 feet deep voids on the right side of the scour area (Photo No. 8).



*Photo No. 6: 22-foot-wide scour on the downstream face*





*Photo No. 7: 5-foot-wide broken off section on downstream face*



*Photo No. 8: 2' to 3' deep voids on downstream toe*

### ***Service Spillway***

The dam functions as the service overflow spillway and allows regular flows to discharge over the dam. The originally designed service spillway consists of a decommissioned low flow outlet with two pipes. There are two outlet pipes that have been infilled with concrete and are no longer operational (Photo No. 9).



*Photo No. 9: Low flow outlet*

### ***Spillway Gates***

The dam does not have gates.

### ***Auxiliary Spillway***

The dam does not have a dedicated auxiliary spillway and is submerged during large flows.

### ***Instrumentation***

The dam does not have instrumentation.

### ***Downstream Channel***

The downstream channel, as viewed from the dam, appears clear and able to convey flood flows away from the dam suitably (Photo No. 10). The downstream channel also appears to have been grouted approximately 300 ft immediately downstream of the dam.





*Photo No. 10: View of downstream channel*

### ***Downstream Hazards***

FNI performed a high-level overview of the downstream hazards at Five Mile Dam based on the aerial. There appears to be no structures downstream of the dam that could be impacted by a potential breach. Although no hydraulic calculations were made to verify this, the channel regularly experiences much larger flows than would be expected from a dam breach and the current low hazard classification seems reasonable

## **HYDROLOGIC / HYDRAULIC ANALYSES**

A Hydrologic/ Hydraulic (H&H) has not been performed for Five Mile Dam. An H&H analysis is not required in accordance with 30 Texas Administrative Code (TAC) §299.15 which states that “Any dam designed to withstand overtopping without failure of the dam, including foundation and abutments, as demonstrated by studies prepared by the owner’s professional engineer will be exempt from the minimum hydrologic criteria.”

## **OPERATION AND MAINTENANCE (O&M) PLAN**

Five Mile Dam does not have an Operation and Maintenance (O&M) Plan. The Texas Administrative Code (TAC) §299.15 requires that “The owners of all dams shall develop and implement an operation and maintenance plan.” An O&M plan should be developed.

## **EMERGENCY ACTION PLAN (EAP)**

Five Mile Dam does not have an Emergency Action Plan (EAP). The Texas Administrative Code (TAC) §299.61 requires that “The owners of all high- and significant-hazard dams, as defined in §299.13 and §299.14 shall prepare an emergency action plan to be followed by the owner in the event or threat of a dam emergency.” Therefore, an EAP is not required at this facility.

## **GATE OPERATION PLAN (GOP)**

A gate operation plan is not applicable to this dam.

## **POTENTIAL FAILURE MODES**

No potential failure modes were identified based on the visual inspection of the dam.

## **RECOMMENDATIONS**

### ***Required Corrective Action Items***

There are no required corrective action items identified.

### ***Maintenance***

1. An Operations and Maintenance Plan should be developed specifically for this dam and be in accordance with TCEQ's Guidelines for Operation and Maintenance of Dams in Texas.


### ***Monitoring***


The following items should be monitored during regularly planned maintenance and inspections of the dam.

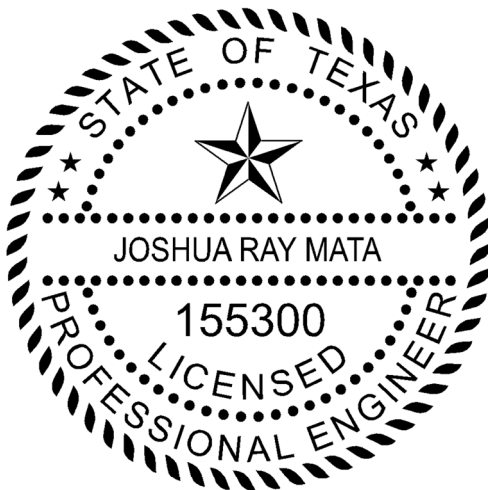
1. Monitor the small scour area on the upstream face near the left abutment for changes over time, or for evidence of seepage through the area.
2. Monitor the eroded section at the right abutment for changes over time.
3. Monitor the scour and voids on the downstream toe for changes over time.

## REFERENCES

1. Freese and Nichols, Inc., *Dam Evaluation Report – Five Mile Dam (Hays County Park Lake Dam)*, November, 2016.
2. Texas Commission on Environmental Quality (TCEQ), *Guidelines for Operation and Maintenance of Dams in Texas*, 2024.
3. U.S. Army Corps of Engineers (USACE), *National Inventory of Dams*, 2020.

  
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Joshua Mata, P.E.  
Freese and Nichols, Inc.

  
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Jake Donaho, P.E.  
Freese and Nichols, Inc.

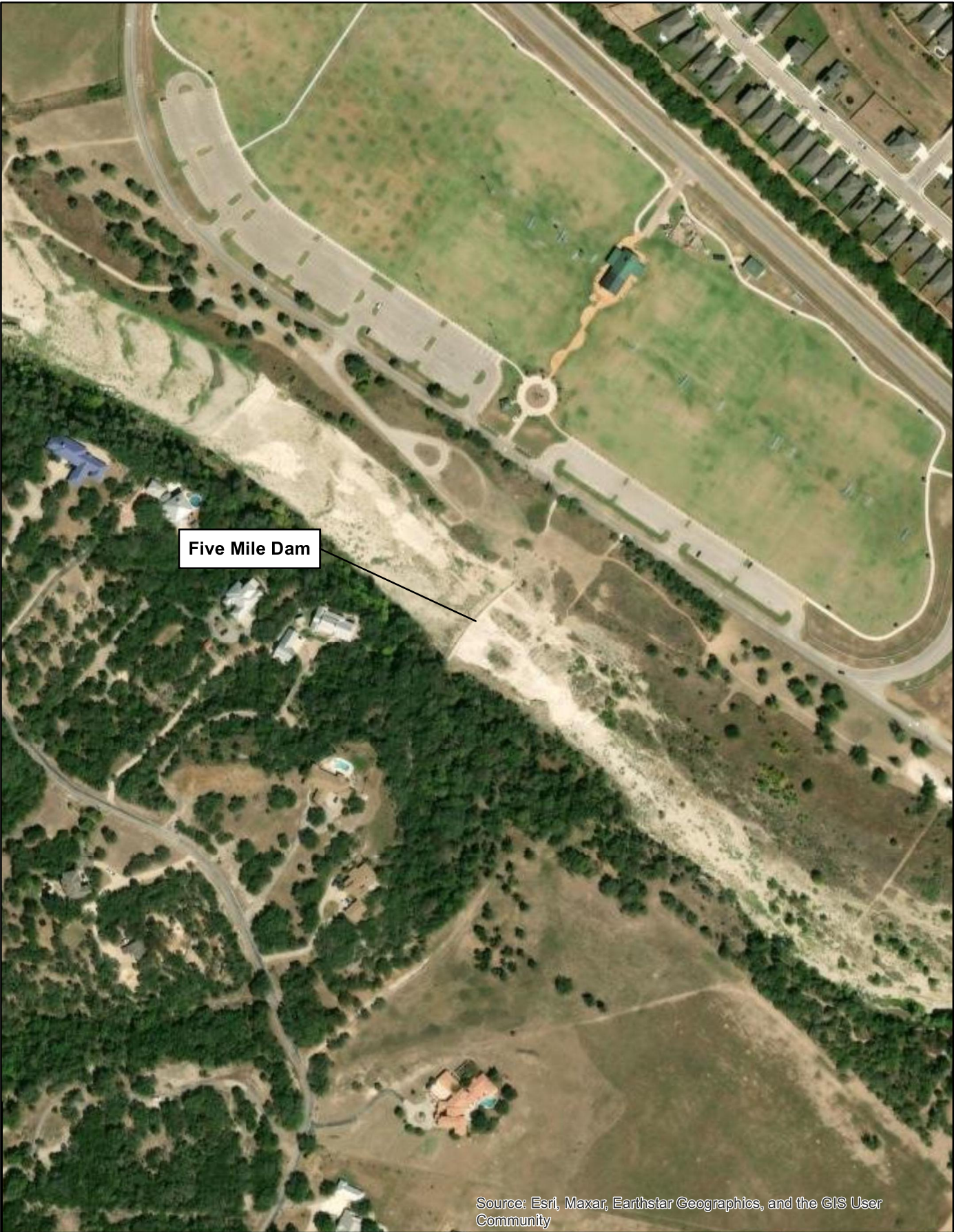




2/27/2025

**FREESE AND NICHOLS, INC.**  
**TEXAS REGISTERED**  
**ENGINEERING FIRM**  
**F-2144**





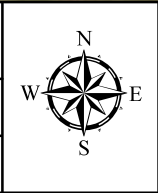
PROJECT	HAS24802
FILE NAME	Five Mile Dam - Fig 1.mxd
DATUM & COORDINATE SYSTEM	NAD 1983 STATE PLANE TEXAS SOUTH CENTRAL FIPS 4004 FEET
DATE CREATED	JANUARY 2025
PREPARED BY	JRM



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&  
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0 125 250 500 Feet
Five Mile Dam
Location Map



**FIGURE**  
**1**



# **APPENDIX A**

## **INSPECTION PHOTOGRAPHS**





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Photo No. 11: View of dam from the left abutment



Photo No. 12: Dam crest





Photo No. 13: Upstream face



Photo No. 14: Downstream face





Photo No. 15: Left abutment



Photo No. 16: Right abutment





Photo No. 17: Decommissioned low flow outlet



Photo No. 18: Void on downstream toe





Photo No. 19: Scour on downstream toe



Photo No. 20: Looking downstream at scour hole

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## APPENDIX B

### 2016 Inspection Report



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## Five Mile Dam (Hays County Park Lake Dam) TX04659

### GENERAL INFORMATION

INVENTORY No.:	TX004659	WATER RIGHT AUTHORIZATION:	N/A
OWNER:	HAYS COUNTY		
STREAM:	BLANCO RIVER		
BASIN:	GUADALUPE RIVER	COUNTY:	HAYS
GENERAL LOCATION:	3.5 MILES SOUTH OF KYLE, TEXAS		
DAM HEIGHT:	8 FT	DOWNSTREAM HAZARD RATING:	LOW
NORMAL CAPACITY:	VARIES	MAXIMUM CAPACITY:	60 AC-FT
NORMAL WATER LEVEL:	VARIES		
CURRENT WATER LEVEL:	604 FT-MSL		
PREVIOUS INSPECTION DATE:	N/A		
CURRENT INSPECTION DATE:	OCTOBER 12, 2016		
INSPECTION BY FNI PERSONNEL:	LAYNE BUKHAIR, P.E., HANDE GERKUS, PH.D., E.I.T.		
PERSONNEL ON-SITE	MR. TIM VANDE VORDE, CET, OPERATIONS SUPERINTENDENT, HAYS COUNTY		

### SUMMARY

Five Mile Dam (also known as Hays County Park Lake Dam) was inspected by Freese and Nichols (FNI) and Hays County staff (as listed above) on the morning of October 12, 2016. Based on visual inspection, the dam is in overall good condition.

The concerns noted in the **Current Evaluations** section below do not place the structure in immediate danger; however, if left uncorrected, these deficiencies could lead to costlier repairs in the future. The items noted in this inspection should be prioritized and addressed within the next one to two years. Detailed recommendations are included in the **Recommendations** section of this report.

An aerial photograph and topography data for the dam are shown as Figures 1 and 2. Appendix A includes inspection photographs and Appendix B includes the standard TCEQ inspection checklist.

## BACKGROUND

Five Mile Dam (also known as Hays County Park Lake Dam) is located on the Blanco River approximately 3.5 miles south of Kyle, Texas. Five Mile Dam is a run-of-river limestone mortar (masonry) channel dam. The dam is a gravity dam with a vertical upstream face and a stepped downstream face. The dam is a run-of-river channel dam that allows normal river flows to discharge over the crest. There are two low-flow outlets, but these were infilled with concrete for public safety by Hays County.

## PREVIOUS EVALUATIONS

There are no previous documented inspections of Five Mile Dam.

## CURRENT EVALUATION

During the inspection, there was significant flow over the top of the low flow section of the dam, which limited visibility and accessibility. The cross-section of the dam was not immediately visible, but the abutment indicates a limestone mortar (masonry) construction (Photo 1). All observations were either made from the shoreline or downstream accessible areas. In addition to the visual inspection, Hays County performed a diving inspection on October 10<sup>th</sup> that documented the underwater condition of the dam with video. Figures 1 and 2 shows an aerial photograph of the dam and the surrounding areas and topographic map of the dam, respectively. Appendix A includes inspection photographs as well as the location of those photographs. Appendix B includes the TCEQ Dam Inspection Form. Directions in the following sections (right and left) are from the perspective of looking downstream.

### ***Crest of Dam***

The crest of the dam is approximately 230 feet long and has a mortar/concrete cap. The crest of the dam was found to be in overall fair condition.

- The crest has some minor erosion on the upstream side that has developed over time (Photo 2, which is typical of a channel dam subjected to daily flows).
- There is a large diameter tree trunk that is lodged on the top of the crest (Photo 3).

### ***Left Abutment***

The left abutment is comprised of a cylindrical gravity structure that connects to the dam and a limestone mortar wall that extends into the bank (Photo 4). Overall, the left abutment was found to be in fair condition.

- There is a minor seep under the left abutment at the connection of the cylindrical gravity structure to the bank wall (Photo 5).
- There is some minor vegetation downstream of the left abutment (Photo 6).

### ***Right Abutment***

The right abutment is comprised of a cylindrical gravity structure that is founded on the shoreline (Photo 7). Overall, the right abutment was found to be in fair condition.

- Heavy vegetation and large trees exist adjacent to the right abutment (Photo 8)



- There is a small pocket of eroded soil on the right bank next to the cylindrical gravity structure (Photo 9).

### ***Service Spillway***

The dam functions as the service overflow spillway or weir and allows regular flows to discharge over the dam. The spillway has two low-level low-flow outlet pipes, but the pipes are infilled with concrete and no longer operational (Photo 10). Overall, it is in fair condition.

### ***Spillway Gates***

The dam does not have gates.

### ***Auxiliary Spillway***

The dam doesn't have a dedicated auxiliary spillway, and is submerged during large flows. As this structure is a run-of-river structure, large flood flows are conveyed through the river channel and the dam is inundated.

### ***Instrumentation***

The dam does not have instrumentation.

### ***Downstream Channel***

The downstream channel has varying rock topography and a few areas of residual soils and vegetation (Photo 11 & Photo 12).

### ***Underwater Inspection***

A diving inspection recorded the condition of the upstream and downstream toe of the dam. The video was reviewed and the overall condition of the underwater structure was in good condition.

- There were a few minor scour holes downstream (Photo 13) and upstream under the dam (Photo 14). The scour holes generally ranged from 6-inches to 1-foot.
- There was a timber located along the upstream toe (Photo 15). The purpose of timber could not be determined from the dive inspection.

### ***Downstream Hazards***

FNI performed a high-level overview of the downstream hazards at Five Mile Dam based on the aerial. There appears to be no structures downstream of the dam that could be impacted by a potential breach. Although no hydraulic calculations were made to verify this, the channel regularly experiences much larger flows than would be expected from a dam breach and the current low hazard classification seems reasonable.

## **HYDROLOGIC / HYDRAULIC ANALYSES**

A Hydrologic/ Hydraulic (H&H) has not been performed for Five Mile Dam. A H&H analysis is not required in accordance with 30 Texas Administrative Code (TAC) §299.15 which states that "Any dam designed to withstand overtopping without failure of the dam, including the foundation and

abutments, as demonstrated by studies prepared by the owner's professional engineer will be exempt from the minimum hydrologic criteria." In addition, channel dams such as Five-mile Dam that have experienced frequent overtopping events are typically considered hydraulically adequate.

## **OPERATION AND MAINTENANCE (O&M) PLAN**

Five Mile Dam doesn't have an O&M plan. The Texas Administrative Code (TAC) §299.15 requires that "The owners of all dams shall develop and implement an operation and maintenance plan." An O&M plan should be developed.

## **EMERGENCY ACTION PLAN (EAP)**

Five Mile Dam doesn't have an Emergency Action Plan (EAP). The Texas Administrative Code (TAC) §299.61 requires that "The owners of all high- and significant-hazard dams, as defined in §299.13 and §299.14 shall prepare an emergency action plan to be followed by the owner in the event or threat of a dam emergency." Therefore, an EAP is not required at this facility.

## **GATE OPERATION PLAN (GOP)**

There are no gates at this dam and therefore a gate operation plan is not applicable to this dam.

## **POTENTIAL FAILURE MODES**

No potential failure modes were identified based on the visual inspection of the dam.

## **RECOMMENDATIONS**

1. Monitor the seepage at the left abutment and the eroded area at the right abutment for changes over time.
2. An Operations and Maintenance Plan should be developed specific to this dam and be in accordance with TCEQ's Guidelines for Operation and Maintenance of Dams in Texas.
3. When the lake level is low, perform a visual inspection of the upstream face.



## CONCLUSIONS

The owner should address the recommendations made in this report as soon as possible and develop a regular maintenance and repair program. It should be noted that it is the owner's responsibility to maintain the dam in a safe condition to prevent loss of life and limit the potential for property loss. In doing so, the owner will reduce liability exposure and, with regular maintenance, will minimize costs.



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Layne Bukhair, P.E.  
Freese and Nichols, Inc.



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Hande Gerkus, Ph.D., E.I.T.  
Freese and Nichols, Inc.



11/22/2016

FREESE AND NICHOLS, INC.  
TEXAS REGISTERED  
ENGINEERING FIRM F- 2144

**Figure 1 – Aerial Map of Site**



Map provided by Bing, ImagePatch.com, and Microsoft Corporation



**Figure 2 – Topographic Map of Site**

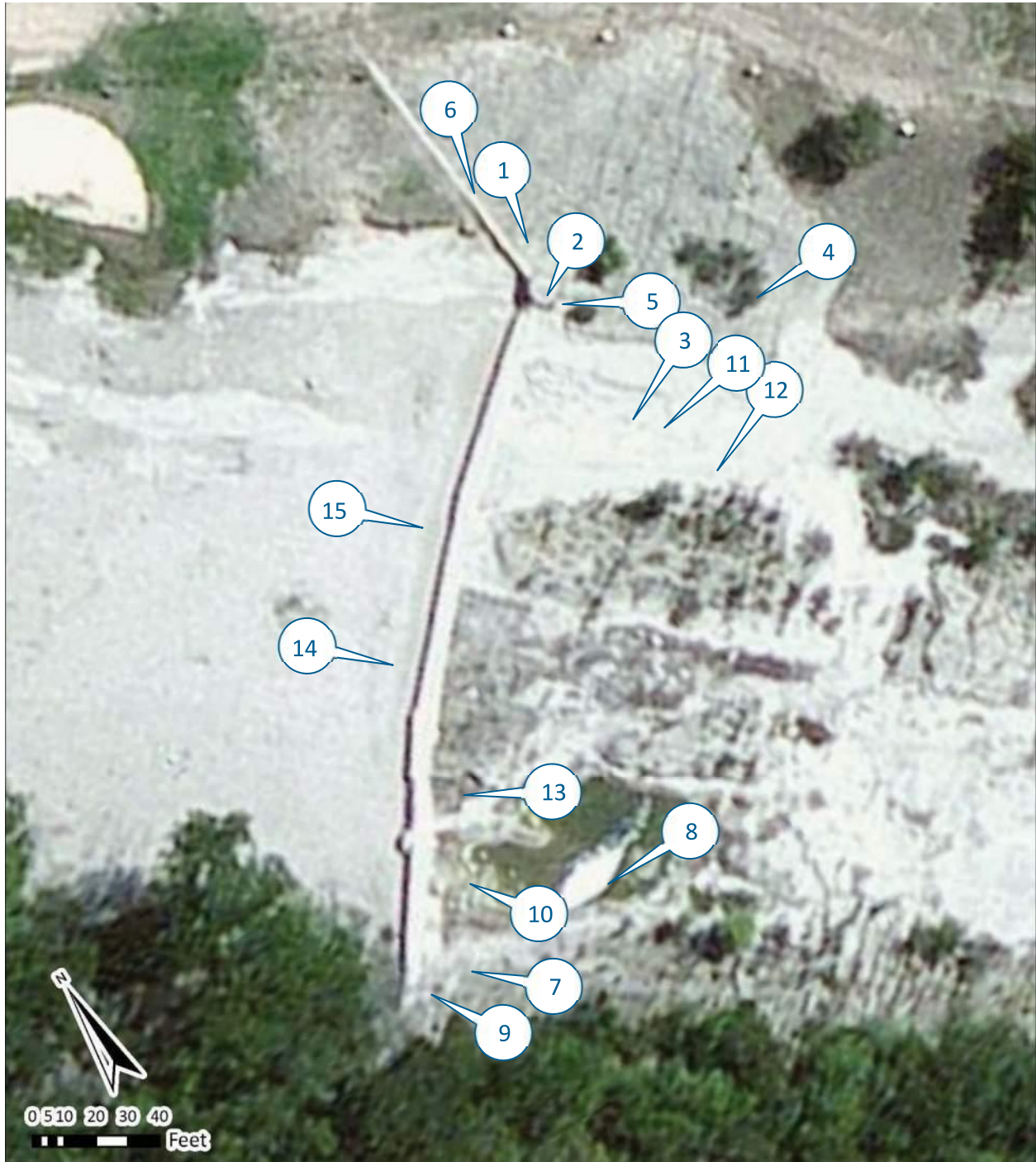


Map provided by Bing, ImagePatch.com, and Microsoft Corporation



# APPENDIX A

## *Inspection Photographs*



Map provided by Bing, ImagePatch.com, and Microsoft Corporation

### Inspection Photo Locations





Photo 1 – Typical Masonry Construction



Photo 2 – Crest of the Dam (Primary Overflow Section)



Photo 3 – Large Diameter Tree Debris



Photo 4 – Left Abutment





Photo 5 – Seep at Left Abutment



Photo 6 – Vegetation Downstream of Left Abutment





Photo 7 – Right Abutment Shoreline



Photo 8 – Vegetation on Right Bank





Photo 9 – Pocket of Erosion at Groin Downstream of the Right Abutment



Photo 10 – Low-Flow Outlet Pipes with Infill Concrete





Photo 11 – Downstream Channel Looking Upstream



Photo 12 – Downstream Channel Looking Upstream





Photo 13 – Typical Downstream Scour under the Dam Toe (Approximately 1.0 feet)



Photo 14 – Typical Upstream Scour under Upstream Heel (Approximately 1.0 feet)



Photo 15 – Sunken Log



## **APPENDIX B**

### ***TCEQ Dam Inspection Form***



Texas Commission on Environmental Quality

## Dam Inspection Form

Dam Name: Five Mile Dam Inventory No: TX04659  
Name of Inspector/s: Layne Bukhair, Hande Gerkus  
Name of Contact/s: Tim Vande Vorde  
Date of Inspection: 10/12/16 Start Time: 8:00am End Time: 8:30am Weather: Overcast

Crest level (at center) above water: Water flowing over crest  
Service spillway level ☒ Above or ☐ Below water: Water flowing over crest  
Emergency spillway level above water: N/A  
Ground Moisture Condition: ☒ Dry ☐ Damp ☐ Wet ☐ Snow ☐ Other: \_\_\_\_\_

**Crest of Embankment** General Condition: ☐ Good ☒ Fair ☐ Poor Width: \_\_\_\_\_  
Problems Noted: ☐ None ☐ Rutting ☐ Erosion ☐ Poor Drainage Height: 8 feet  
☐ Trees ☐ Depressions ☐ Bulges ☐ Livestock Damage ☐ Cracks Length: 230 feet  
☐ Misalignment of Crest ☐ Misalignment of Utility Poles ☐ Misalignment of Fences or Rails ☐ Sinkhole  
☐ Burrows ☐ Breached ☒ Other: Large tree trunk on crest  
Comments: \_\_\_\_\_

**Upstream Embankment** General Condition: ☐ Good ☐ Fair ☐ Poor Slope: \_\_\_\_\_  
Problems Noted: ☐ None ☐ Rip-Rap ☐ Erosion ☐ Too Steep ☐ Burrows ☐ Trees ☐ Cattails ☐ Depressions  
☐ Bulges ☐ Livestock Damage ☐ Slides ☐ Concrete Decay ☐ Cracks ☐ Sinkhole ☐ Benching  
☐ Misalignment of Rip-rap ☐ Open Joints in Concrete  
Comments: \_\_\_\_\_

**Downstream Embankment** General Condition: ☐ Good ☐ Fair ☐ Poor Slope: \_\_\_\_\_  
Problems Noted: ☐ None ☐ Sloughing ☐ Erosion ☐ Too Steep ☐ Burrows ☐ Trees ☐ Cattails  
☐ Depressions ☐ Bulges ☐ Livestock Damage ☐ Slides ☐ Concrete Decay ☐ Cracks ☐ Sinkhole  
☐ Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

**Seepage on Downstream Slope** Amount: ☐ Major ☐ Moderate ☒ Minor ☐ None Found  
Problems Noted: ☐ None ☐ Saturation Starts at \_\_\_\_% up Embankment ☐ Presence of Sediment in Flow  
☐ Cattails at Toe of Dam ☐ Surface Water at Toe of Dam ☐ Seepage Associated with Sloughing  
☐ Continuous Flow ☐ Sporadic Flow  
Comments: Occurs at connection of left abutment to the bank wall



**Downstream Hazard Conditions** ☐ Narrow Canyon ☐ Wide Canyon ☐ Lightly Sloping Prairie ☐ Pastureland  
☐ Large Trees and Forest ☐ Brushy and Scrubby Forest ☒ No Homes ☐ Lightly Populated ☐ Moderately  
Populated ☐ Densely Populated ☐ Industrial ☐ Businesses Estimated number of homes: \_\_\_\_\_  
Comments: \_\_\_\_\_

**Principal Spillway Inlet Structure** General Condition: ☐ Good ☐ Fair ☐ Poor  
Problems Noted: ☐ None ☐ Blockage ☐ Not Located ☐ Steel Corrosion ☐ Concrete Spalling  
☐ Concrete Cracking ☐ Reinforcement Corrosion ☐ Missing Parts ☐ Timber Decay  
☐ Leakage Below Water Level ☐ Inoperable Valve ☐ Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

**Principal Spillway Outlet Structure** General Condition: ☐ Good ☐ Fair ☐ Poor  
Problems Noted: ☐ None ☐ Blockage ☐ Not Located ☐ Corrosion of Conduit ☐ Presence of Sediment in Flow  
☐ Inaccessible ☐ Concrete Cracking ☐ Concrete Spalling ☐ Reinforcement Corrosion  
☐ Misalignment of Walls/Slabs ☐ Open Joints  
Comments: \_\_\_\_\_

**Principal Spillway** Condition: ☐ Good ☒ Fair ☐ Poor Depth: \_\_\_\_\_ Width: \_\_\_\_\_  
Problems Noted: ☐ None ☐ Blockage ☐ Not Located ☐ Trees ☐ Burrows ☐ Back-Cutting Erosion  
☐ Inaccessible ☐ Livestock Damage ☐ Concrete Cracking ☐ Concrete Spalling ☐ Reinforcement Corrosion  
☐ Damaged Water-stops ☐ Open Joints ☐ Sinkholes ☐ Holes in Spillway Chute ☐ Seepage  
☐ Misalignment of Walls/Slabs ☐ Damaged Gates ☐ Nonfunctional Gates ☐ Lubrication of Gates  
☐ Testing of Gates  
Comments: [Dam functions as principal spillway](#)

**Auxiliary Spillway** Condition: ☐ Good ☐ Fair ☐ Poor Depth: \_\_\_\_\_ Width: \_\_\_\_\_  
Problems Noted: ☐ None ☐ Blockage ☐ Not Located ☐ Trees ☐ Burrows ☐ Back-Cutting Erosion  
☐ Inaccessible ☐ Livestock Damage ☐ Concrete Cracking ☐ Concrete Spalling ☐ Reinforcement Corrosion  
☐ Damaged Water-stops ☐ Open Joints ☐ Sinkholes ☐ Holes in Spillway Chute ☐ Seepage  
☐ Misalignment of Walls/Slabs ☐ Damaged Gates ☐ Nonfunctional Gates ☐ Lubrication of Gates  
☐ Testing of Gates  
Comments: [No dedicated auxiliary spillway](#)

**Other Items** ☐ Major road along crest of dam ☐ Private road or driveway along crest of dam  
☐ Vehicle bridge along crest of dam ☐ Culverts built into crest of dam  
☐ Pipeline immediately downstream from dam - Type of pipeline: \_\_\_\_\_  
☐ Water supply line in crest of dam ☐ Other: \_\_\_\_\_  
Comments: \_\_\_\_\_

**Repair Items Ranked by Priority**Item 1: Monitor seepage and repair during time of low flowItem 2: Remove tree on dam crest

Item 3: \_\_\_\_\_

Item 4: \_\_\_\_\_

**Security Issues** ☐ Vehicle Accessible ☐ Vehicle Gates ☐ Vehicle Fences and Railing ☒ Pedestrian Accessible  
☐ Pedestrian Gates and Fences ☐ Obscured from Surveillance ☐ Locks ☐ Breaches in Fence ☐ Evidence of Parties  
☐ Graffiti ☐ Security System

Comments: \_\_\_\_\_

**Operational Procedures** ☐ SOP Available Location Kept: \_\_\_\_\_☐ Logbook Location of Logbook: \_\_\_\_\_☐ Major Events Noted ☐ Staff Training Topics of Training: \_\_\_\_\_☐ Manual Gate Operations ☐ Powered Gate Operations ☐ Automated Gate Operations

Comments: \_\_\_\_\_

**Communications** ☐ Directory Available ☐ 24-Hour Coverage ☐ Telephone Available at Dam☒ Cell Phone Coverage—Provider: \_\_\_\_\_

Comments: \_\_\_\_\_

**Emergency Action Plan** ☐ Available ☐ Filed with TCEQ ☐ Change in Downstream Hazard

Frequency of Update: \_\_\_\_\_ Date of Last Revision: \_\_\_\_\_

Date of Last Exercise: \_\_\_\_\_

Comments: None**Instrumentation** ☐ Present ☐ Adequately Maintained ☐ Inadequately Maintained ☐ Operational☐ Data Collected ☐ Data Analyzed ☐ Adequately ProtectedComments: None**Early Warning System** ☐ Present ☐ Adequately Maintained ☐ Inadequately Maintained ☐ Operational

Frequency of Maintenance: \_\_\_\_\_ Date of Last Exercise: \_\_\_\_\_

Comments: None**Reservoir Drawdown Capability** Method of Drawdown: \_\_\_\_\_

Maximum Drawdown: \_\_\_\_\_ c.f.s. Frequency of Testing: \_\_\_\_\_

Comments: None**Backup Power** ☐ Present ☐ Adequately Maintained ☐ Inadequately Maintained ☐ Operational

Frequency of Maintenance: \_\_\_\_\_ Date of Last Exercise: \_\_\_\_\_

Comments: N/A