

Vellone, Daniel A CIV USARMY CESPCK (USA)

From: Vellone, Daniel A CIV USARMY CESPCK (USA)
Sent: Friday, July 19, 2024 12:35 AM
To: Yau, Jonathan CIV USARMY CESPCK (USA); Pate, Derek J CIV USARMY CESPCK (USA)
Cc: DeRocchi, Mark J (Rock) CIV USARMY CESPCK (USA); Orellana, Rachael CIV USARMY CESPCK (USA); Weidenbener, Francis J CIV USARMY CESPCK (USA); Kukas, Gregory A CIV USARMY CESPCK (USA)
Subject: Marysvale, UT SPOTREP 18-JUL 2024
Attachments: 18-JUL Fire.jpg; Morning Operational Meeting.jpg; Dereke Pate and Mayor Bill Davis and Mrs. Robin Davis.jpg; Evening Community Meeting.jpg

Importance: High

Marysvale SPOTREP 18-JUL 2024

Personnel in Field Today (18-JUL): *Derek Pate, P.E. (Hydraulics), Daniel Vellone, P.G. (Geotechnics)*

Personnel in Field Tomorrow (19-JUL): *Derek Pate, P.E. (Hydraulics), Daniel Vellone, P.G. (Geotechnics)*

LOCATION: *Marysvale Operational Command Post and Fire Impacted Areas west of Marysvale in Fishlake National Forest*

a. **ISSUE:** *The Silver King Fire encompassed an area of approximately 18,000 acres in the Fishlake National Forest, approximately 3 miles west of the Town of Marysvale. Due to the removal of vegetation within the burn scar, the ability for the ground to absorb water has been dramatically altered, increasing the potential short-term risk of flash flooding and debris flows to the downstream communities, and for the next 3-5 years until vegetation is re-established. Utah is prone to intense thunderstorms that produce large amounts of rainfall in a short period of time and has a robust history of flash flooding and debris flows. Several of the surrounding mountain peaks (10,000-11,000 ft) adversely affect local weather patterns.*

b. **ONGOING ACTIONS:** *The Utah Division of Emergency Management (UTDEM) Technical Assistance request in support of anticipated flash flooding, debris flows/landslides, and collateral infrastructure damage in accordance with FEMA Fire Management Assistance Grant (FMAG) FM-5504-UT in response to the Silver King Fire, Fishlake National Forest in the Town of Marysvale, Piute County, Utah. The Fire crews have the fire approximately 80% contained as of this SPOTREP. National Weather Service indicates possible-probable flashflood advisories for the region with 50% daytime precipitation chance for Saturday, 20-JUL, and moderate intensity burning conditions forecasted through Thursday, 25-JUL.*

USACE personnel observed wildfire impacted areas with Mayor, Town's Consulting Engineer Representatives (Ensign Engineering), County DPW representatives, and BLM representatives. Additionally, USACE personnel observed critical infrastructure for water supply and emergency communications network. USACE personnel (Vellone) attended morning Operational Meeting and USACE personnel (Pate and Vellone) attended the evening Silver King Fire Community Meeting (19:00 Hrs) at the request of the Town Mayor.

c. **POSSIBLE IMPACTS:** *Debris flow/landslide downstream consequence areas include private residences and Town center with a potential to impact critical Town infrastructure (water supply/emergency communication network).*

d. **EOC SUPPORT NEEDED:** *No additional support needs at this time.*

e. **POC(s):** *Scott Alvord, State of Utah Public Safety Emergency Management [REDACTED] mobile
Hon. Bill Davis, Mayor, Town of Marysvale, Piute County, Utah*

STAKEHOLDER ENGAGEMENTS: *Morning Operational Meeting with Federal, State, County, and Municipal Representatives including Senator Evan Vickers and Mayor Davis. Evening Stakeholder Meeting with community members and Federal, State, County, and Municipal Representatives*





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Subject: Marysvale, UT SPOTREP 19-JUL 2024
Date: Friday, July 19, 2024 11:07:00 PM
Attachments: [Elementary School.jpg](#)
[Existing Fire Company Facility.jpg](#)
[New Fire-EMS-SAR Under Construction.jpg](#)
[Telecommunications Building.jpg](#)

Marysvale SPOTREP 19-JUL 2024

Personnel in Field Today (19-JUL): *Derek Pate, P.E. (Hydraulics), Daniel Vellone, P.G. (Geotechnics)*

Personnel in Field Tomorrow (20-JUL): *Derek Pate, P.E. (Hydraulics), Daniel Vellone, P.G. (Geotechnics)*

LOCATION: *Marysvale Operational Command Post and Marysvale Town*

a. ISSUE: *The Silver King Fire encompassed an area of approximately 18,000 acres in the Fishlake National Forest, approximately 3 miles west of the Town of Marysvale. Due to the loss of vegetation within the burn scar, the ability for the ground to absorb water has been dramatically altered, increasing the potential short-term risk of flash flooding and debris flows to the downstream communities, and for the next 3-5 years until vegetation is re-established. Utah is prone to intense thunderstorms that produce large amounts of rainfall in a short period of time and has a robust history of flash flooding and debris flows. Several of the surrounding mountain peaks (10,000-11,000 ft) adversely affect local weather patterns.*

b. ONGOING ACTIONS: **[Update from 18-JUL SPOTREP]** *The Fire crews have the fire approximately 87% contained as of this SPOTREP, with small periods of daily precipitation beneficial to the fire suppression. Additional areas along the fire line are under control; however additional snag hazards need to be cleared and has not been included in total containment footprint. The Utah Division of Emergency Management (UTDEM) Technical Assistance request in support of anticipated flash flooding, debris flows/landslides, and collateral infrastructure damage in accordance with FEMA Fire Management Assistance Grant (FMAG) FM-5504-UT in response to the Silver King Fire, Fishlake National Forest in the Town of Marysvale, Piute County, Utah. National Weather Service indicates possible-probable flashflood advisories for the region with 50% daytime precipitation chance for Saturday, 20-JUL, and moderate intensity burning conditions forecasted through Thursday, 25-JUL.*

USACE personnel began compiling reference information and developing the memorandum to summarize the technical assistance debris flow modeling.

USACE personnel met with the Town Mayor, Hon. Bill Davis and UTDEM Community Support Liaison Scott Alvord to review preliminary FEMA Flood Inundation Mapping to identify critical facilities and infrastructure that exist within low-lying areas that are expected to be impacted by potential flooding. This data will help to inform the hydraulic modeling. USACE personnel then visited key areas to observe field conditions. Structures/Facilities visited include the new Emergency Services (Fire, EMS, SAR) four-bay building under construction, auxiliary municipal water supply well (~250gpm yield), municipal water supply well control facility, existing Fire Company two-bay building, telecommunications facility, Oscarson Elementary School, various places of worship, and US-89/N. Main Street drainage culverts.

USACE personnel met with USFS Great Basin Team GIS specialists to obtain ArcGIS models of the topographic base maps, wildland fire line, FEMA critical infrastructure layers, and additional information that will inform the potential impacts from the debris flow.

USACE personnel met with the USFS BAER Team, Town Mayor, and Town Fire Chief Jon Christensen for information sharing. The BAER Team anticipates that their reporting will be completed in approximately one week, and will share their report with USACE through coordination with UTDEM.

USACE personnel shared flood fighting sandbagging reference material (brochure and 'how-to' guide) with UTDEM, Town Fire Chief, and Town Mayor. This technical assistance information will be use for a community training event on flood fighting and sandbagging to be held on Saturday, 20-JUL. Additionally, the Town of Marysvale will share this information with community stakeholders through the Town's Facebook Page. USACE personnel will participate in the flood fight sandbagging demonstration as technical advisors on Saturday, 20-JUL at the request of the Town Mayor, Fire Chief, and UTDEM.

c. POSSIBLE IMPACTS: Debris flow/landslide downstream consequence areas include private residences and Town center with a potential to impact critical Town infrastructure (water supply spring collection box, chlorination facility, water storage tanks, auxiliary municipal water supply well, emergency communication network, Fire/EMS Facility, and community facilities and cultural resources – school, community center, and places of worship).

d. EOC SUPPORT NEEDED: No additional field support needs at this time. Home district support hydraulic modeling will be performed in the office during the week 22-JUL, and work will continue to prepare the debris flow modeling summary memorandum. It is recommended that Engineering Division, Hydrology and Hydraulics Branch, Water Management Section add Marysvale, Piute Co. to the forecast updates for SPK's AOR for July/August to continue to monitor weather patterns and potential precipitation for debris flow/landslide triggering events.

Derek Pate will depart/return travel on Saturday, 20-JUL. Daniel Vellone is anticipated to connect with USFS BAER Team on Sunday, 21-JUL and will depart/return travel on Monday, 22-JUL.

*e. POC(s): Scott Alvord, State of Utah Public Safety Emergency Management [REDACTED] mobile
Hon. Bill Davis, Mayor, Town of Marysvale, Piute County, Utah*

STAKEHOLDER ENGAGEMENTS: Several meetings with Federal, State, County, and Municipal Representatives (See summary above).





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Subject: Marysvale, UT SPOTREP 20-JUL 2024
Date: Saturday, July 20, 2024 9:27:00 PM
Attachments: [Comunity Members Sandbagging-1.jpg](#)
[Comunity Members Sandbagging-2.jpg](#)
[Comunity Members Sandbagging-3.jpg](#)
[Piute County Rapid Response.jpg](#)
[Community Well Sandbag Protection.jpg](#)

Marysvale SPOTREP 20-JUL 2024

Personnel in Field Today (20-JUL): *Derek Pate, P.E. (Hydraulics), Daniel Vellone, P.G. (Geotechnics)*

Personnel in Field Tomorrow (21-JUL): *Daniel Vellone, P.G. (Geotechnics)*

LOCATION: *Marysvale Operational Command Post and Marysvale Town*

a. ISSUE: *The Silver King Fire encompassed an area of approximately 18,000 acres in the Fishlake National Forest, approximately 3 miles west of the Town of Marysvale. Due to the loss of vegetation within the burn scar, the ability for the ground to absorb water has been dramatically altered, increasing the potential short-term risk of flash flooding and debris flows to the downstream communities, and for the next 3-5 years until vegetation is re-established. Utah is prone to intense thunderstorms that produce large amounts of rainfall in a short period of time and has a robust history of flash flooding and debris flows. Several of the surrounding mountain peaks (10,000-11,000 ft) adversely affect local weather patterns.*

b. ONGOING ACTIONS: **[No Update from 19-JUL SPOTREP]** *The Fire crews have the fire approximately 87% contained as of this SPOTREP, with small periods of daily precipitation beneficial to the fire suppression. Additional areas along the fire line are under control; however additional snag hazards need to be cleared and has not been included in total containment footprint. The Utah Division of Emergency Management (UTDEM) Technical Assistance request in support of anticipated flash flooding, debris flows/landslides, and collateral infrastructure damage in accordance with FEMA Fire Management Assistance Grant (FMAG) FM-5504-UT in response to the Silver King Fire, Fishlake National Forest in the Town of Marysvale, Piute County, Utah. National Weather Service indicates possible-probable flashflood advisories for the region with 50% daytime precipitation chance for Saturday, 20-JUL, and moderate intensity burning conditions forecasted through Thursday, 25-JUL.*

20-JUL SPOTREP Update:

USACE personnel (Pate and Vellone) participated in the community flood fight sandbagging demonstration as technical advisors on Saturday, 20-JUL at the request of the Town Mayor, Fire Chief, and UTDEM. Approximately 200+ community members of all ages from Marysvale and three additional communities from the Panguish Stake— the Kingston, Junction, and Circleville Wards. The community sandbagging event was coordinated by Bishop Dallas Sylvester and the Marysvale Town Mayor, Hon. Bill Davis. Additionally, the event was attended by the Town Fire Chief and UTDEM Community Support Liaison Scott Alvord. See attached photos.

USACE personnel (Vellone) led a sandbagging demonstration at the start of the event. Pate and Vellone both interacted with community members during the event to share information on proper sandbag filling and placement techniques. Later in the afternoon, Vellone worked with several community members to place sandbags in a ring dike surrounding the auxiliary municipal water

supply well (~250gpm yield) vault and wellhead. See attached photo.

USACE personnel (Vellone) accompanied the Town Mayor, Hon. Bill Davis, and community members to identify town infrastructure that is anticipated to negatively impact private landowners (e.g., roadway culvert crossings that may become infilled with debris flow materials).

USACE personnel (Vellone) met with the Town Mayor and Piute County Rapid Response Coordinator (Deputy Sheriff and Paramedic) to discuss communication and mutual aid assistance from surrounding Towns and Counties.

c. POSSIBLE IMPACTS: Debris flow/landslide downstream consequence areas include private residences and Town center with a potential to impact critical Town infrastructure (water supply spring collection box, chlorination facility, water storage tanks, auxiliary municipal water supply well, emergency communication network, Fire/EMS Facility, and community facilities and cultural resources – school, community center, and places of worship).

d. EOC SUPPORT NEEDED: [No Update from 19-JUL SPOTREP] No additional field support needs at this time. Home district support hydraulic modeling will be performed in the office during the week 22-JUL, and work will continue to prepare the debris flow modeling summary memorandum. It is recommended that Engineering Division, Hydrology and Hydraulics Branch, Water Management Section add Marysvale, Piute Co. to the forecast updates for SPK's AOR for July/August to continue to monitor weather patterns and potential precipitation for debris flow/landslide triggering events.

*e. POC(s): Scott Alvord, State of Utah Public Safety Emergency Management [REDACTED] mobile
Hon. Bill Davis, Mayor, Town of Marysvale, Piute County, Utah*

STAKEHOLDER ENGAGEMENTS: Several meetings with Federal, State, County, and Municipal Representatives (See summary above).







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Subject: Marysvale, UT SPOTREP 21-JUL 2024
Date: Sunday, July 21, 2024 9:23:00 PM
Attachments: [Water Storage Tank.jpg](#)
[Existing Irrigation Ditch.jpg](#)

Marysvale SPOTREP 21-JUL 2024

Personnel in Field Today (21-JUL): *Daniel Vellone, P.G. (Geotechnics)*

Personnel in Field Tomorrow (22-JUL): **None**

LOCATION: *Marysvale Operational Command Post and Marysvale Town*

a. ISSUE: *The Silver King Fire encompassed an area of approximately 18,000 acres in the Fishlake National Forest, approximately 3 miles west of the Town of Marysvale. Due to the loss of vegetation within the burn scar, the ability for the ground to absorb water has been dramatically altered, increasing the potential short-term risk of flash flooding and debris flows to the downstream communities, and for the next 3-5 years until vegetation is re-established. Utah is prone to intense thunderstorms that produce large amounts of rainfall in a short period of time and has a robust history of flash flooding and debris flows. Several of the surrounding mountain peaks (10,000-11,000 ft) adversely affect local weather patterns.*

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21-JUL SPOTREP Update:

USACE personnel (Vellone) met with the Town Mayor Hon. Bill Davis, and Fire Chief Jon Christensen to identify additional town infrastructure (e.g., municipal water storage tank), irrigation ditches to convey surface water flow, and identify potential locations to construct additional debris detention basins (as needed). (see attach photos)

c. POSSIBLE IMPACTS: *Debris flow/landslide downstream consequence areas include private residences and Town center with a potential to impact critical Town infrastructure (water supply spring collection box, chlorination facility, water storage tanks, auxiliary municipal water supply well, emergency communication network, Fire/EMS Facility, and community facilities and cultural resources – school, community center, and places of worship).*

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e. POC(s): *Scott Alvord, State of Utah Public Safety Emergency Management [REDACTED] mobile
Hon. Bill Davis, Mayor, Town of Marysvale, Piute County, Utah*

STAKEHOLDER ENGAGEMENTS: *See summary above*

