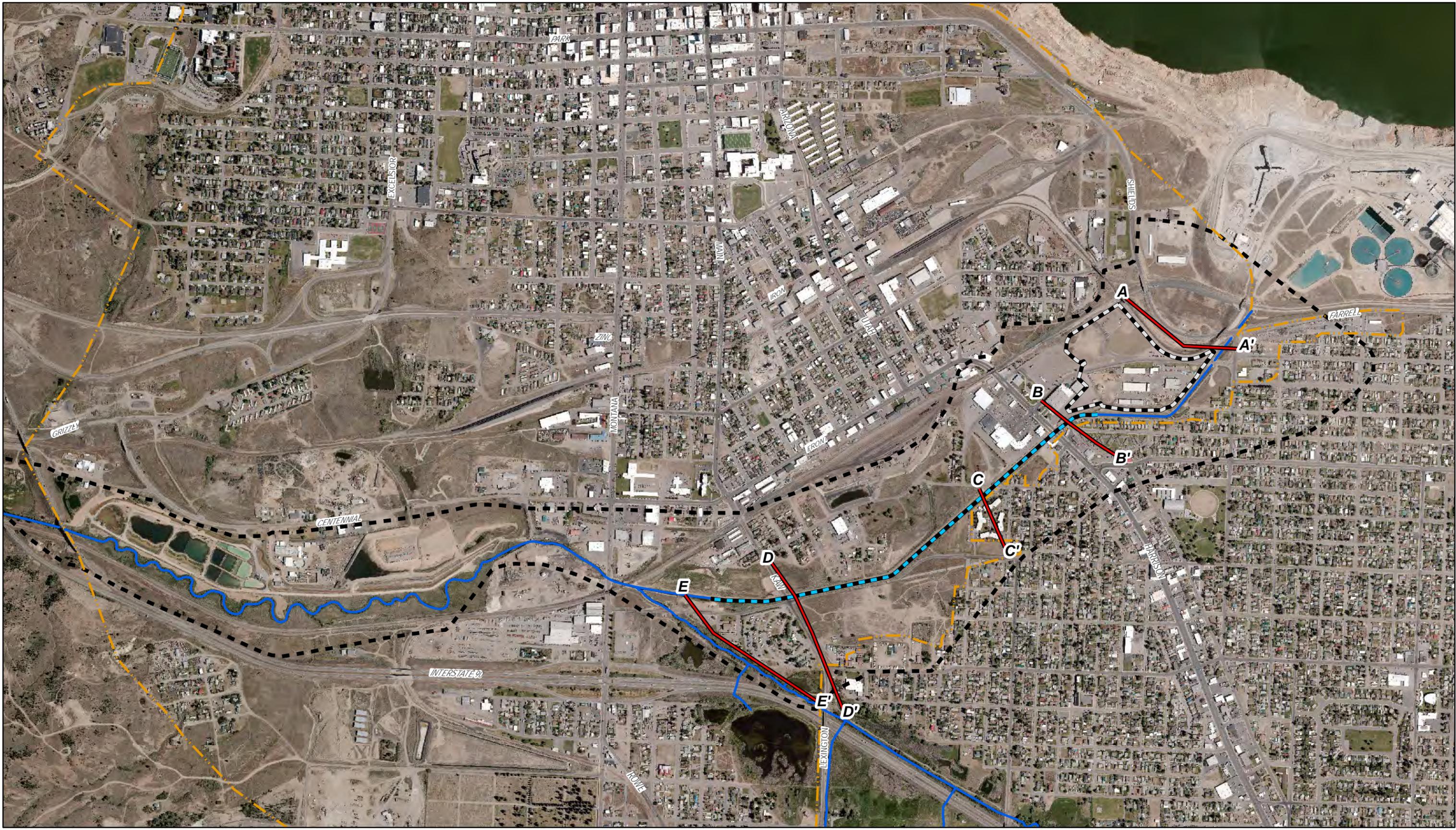


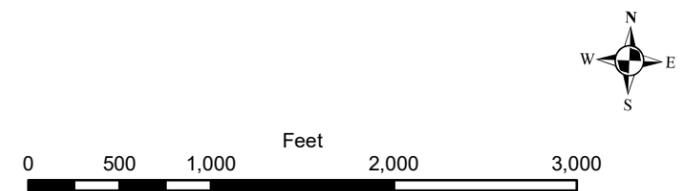
FIGURES



Legend

- High Density Well Transects
- MSD Subdrain
- Surface Water
- Parrot Tailings Removal Area
- BAO Boundary
- BPSOU Boundary

NOTES
 1. Background is 2016 6" resolution aerial provided by BSB





PARROT PMP

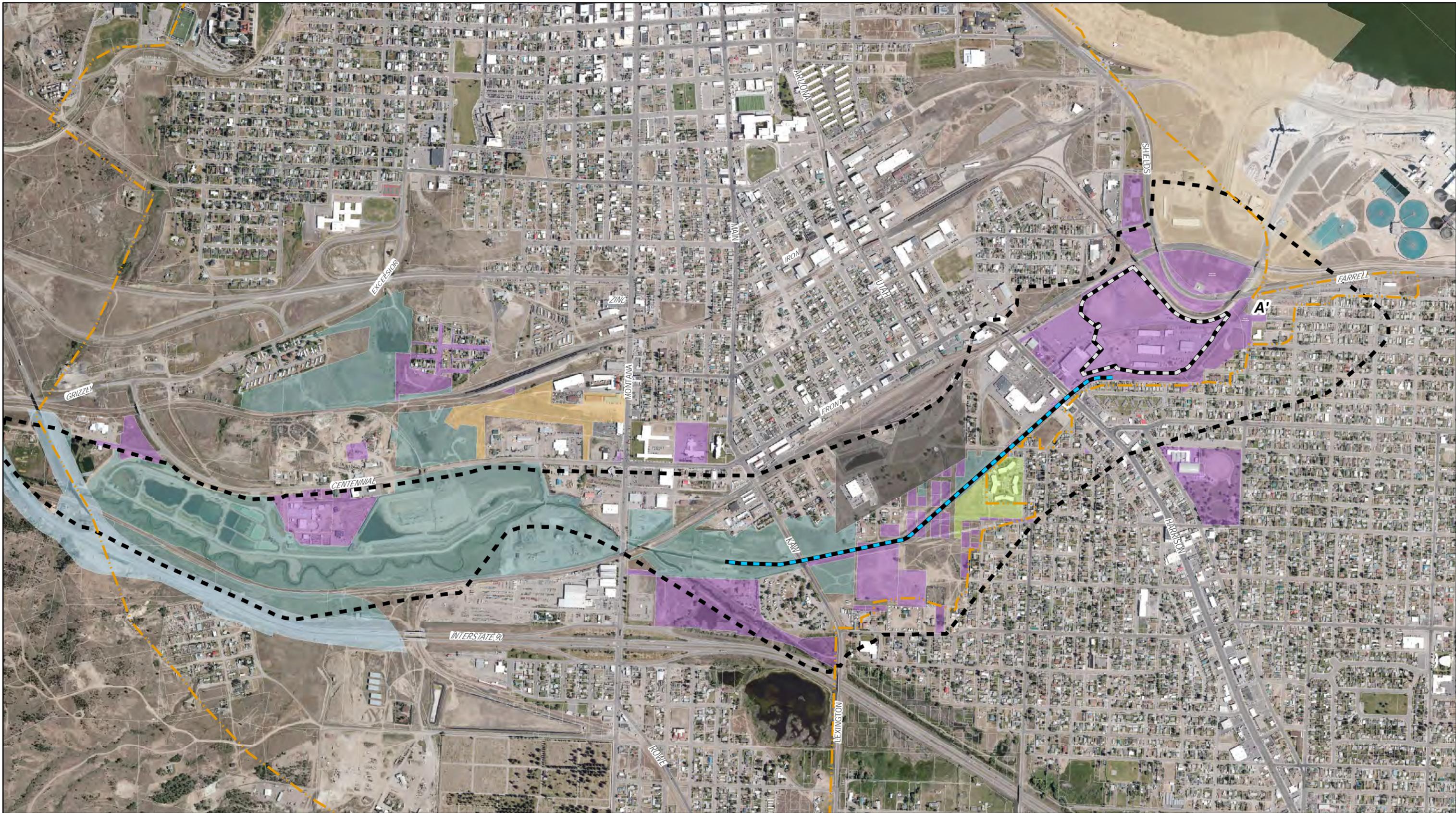
Site Location Map
Butte-Silver Bow County MT

Job#: NRDPM02

Date: 4/30/2020

Path: E:\Home_M_Olive\Parrot\figure1 PMP Work Plan.mxd, Author: jgpross

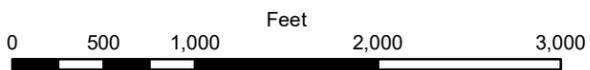
FIGURE 1



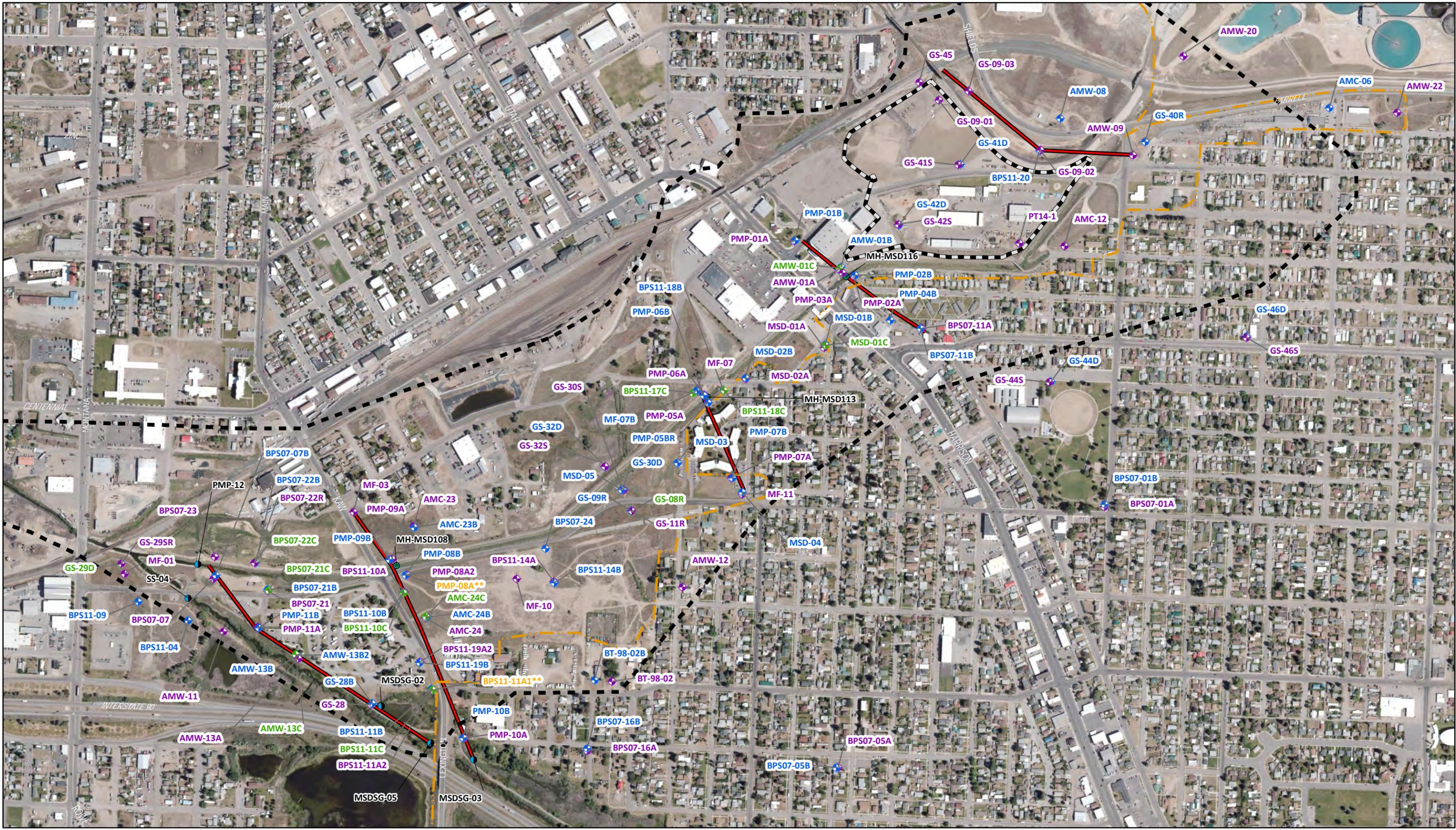
Legend

-  MSD Subdrain
-  Parrot Tailings Removal Area
-  BAO Boundary
-  BPSOU Boundary
-  Arco
-  BSB
-  MONTANA RESOURCES
-  BURLINGTON NORTHERN
-  UNION PACIFIC RAILROAD COMPANY
-  COLUMBUS PLAZA INC
-  MCDONOUGH HOLDINGS LLC
-  State
-  Owner Parcel

NOTES
 1. Background is 2016 6" resolution aerial provided by BSB
 2. Ownership is from Montana Cadastral service



PARROT PMP	
<i>Property Ownership Butte-Silver Bow County MT</i>	
Job#: NRDPM02	FIGURE 2
Date: 4/30/2020	
Path: E:\Home_M_Drive\Parrot\fig2 Property Ownership.mxd, Author: juprasso	



Legend

- MANHOLE
- SURFACE WATER
- Monitoring Wells
 - Lower Aquifer Unit
 - Middle Aquifer Unit
- Upper Aquifer Unit
- ▭ Parrot Tailings Removal Area
- ▭ BAO Boundary
- ▭ BPSOU Boundary
- ▭ High Density Well Transects

NOTES
 1. Background is 2016 6" resolution aerial provided by BSB.
 2. Indicates Perched Aquifer

0 500 1,000 2,000
 Feet

N
 W E
 S



Water & Environmental
TECHNOLOGIES

PARROT PMP

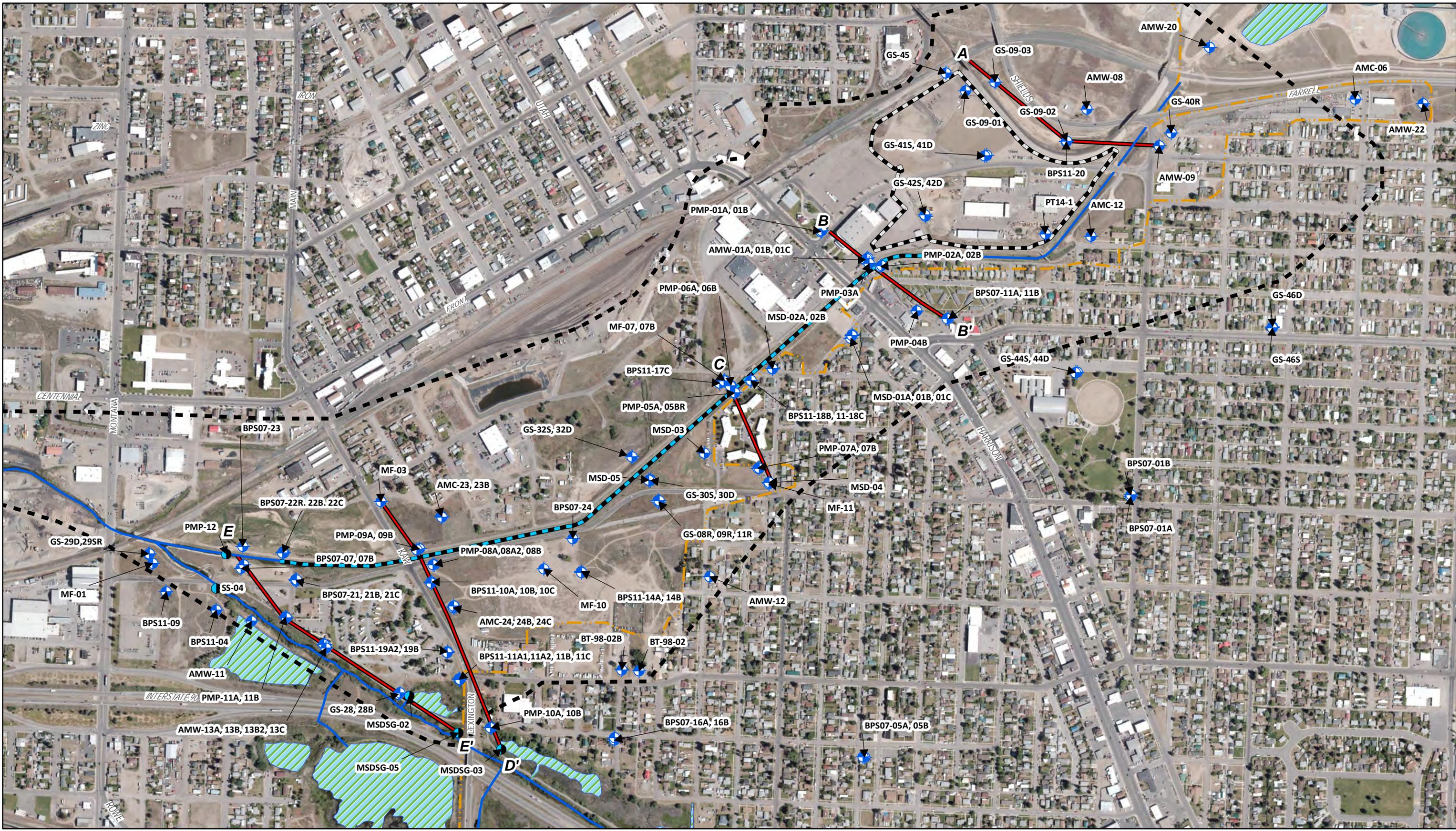
*PMP Well Network - All Wells
Butte-Silver Bow County MT*

Job#: NRDP02

Date: 5/7/2020

Path: E:\Home_M_Olive\Parrot\figure4 Well Network.mxd, Author: jkprose

FIGURE 4



Legend

- Monitoring Well
- Manhole
- Surface Water
- MSD Subdrain
- High Density Well Transects
- Parrot Tailings Removal Area
- BAO Boundary
- BPSOU Boundary
- Wetlands

NOTES
 1. Background is 2016 6" resolution aerial provided by BSB.

0 300 600 1,200 1,800 Feet

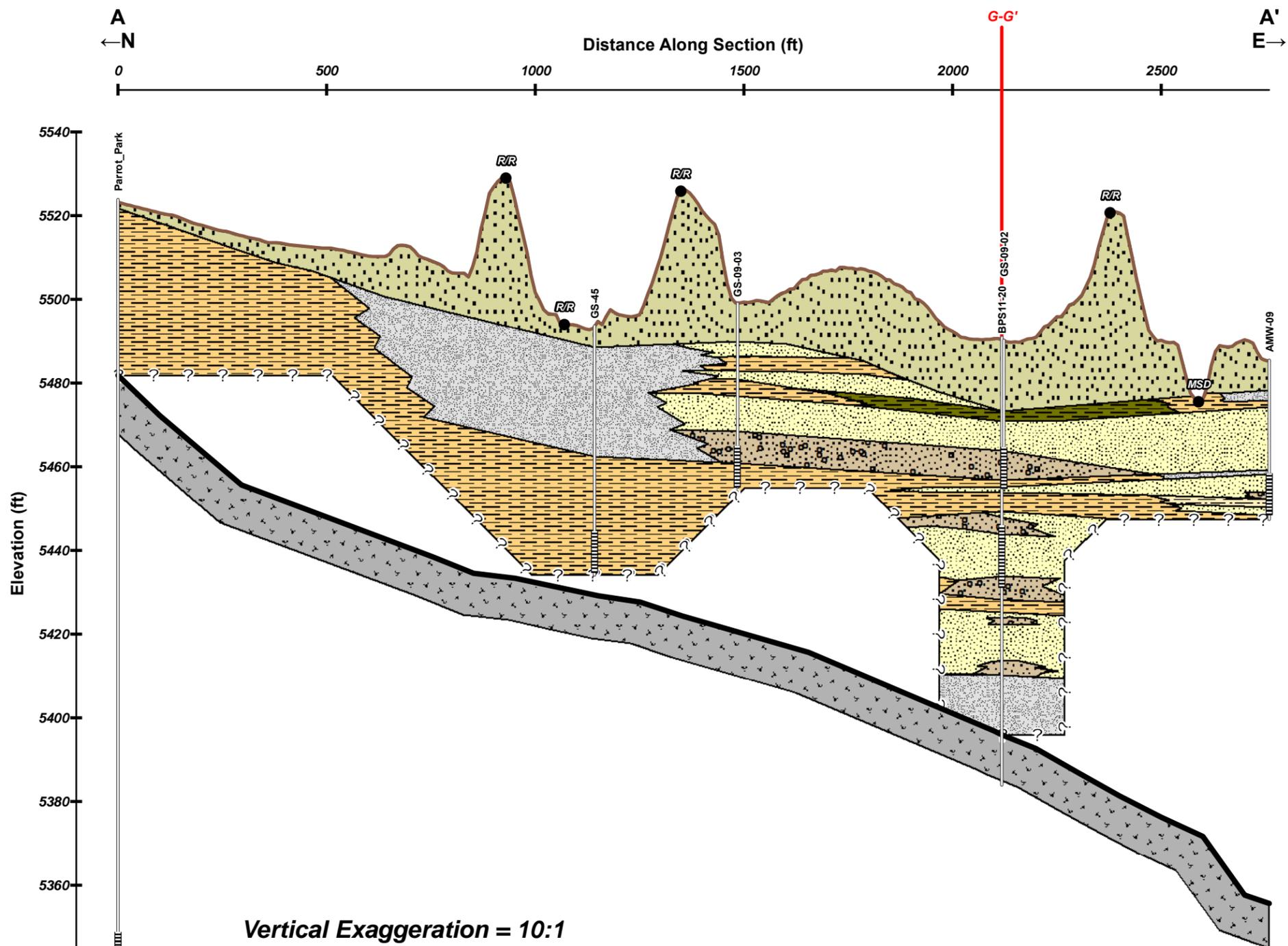
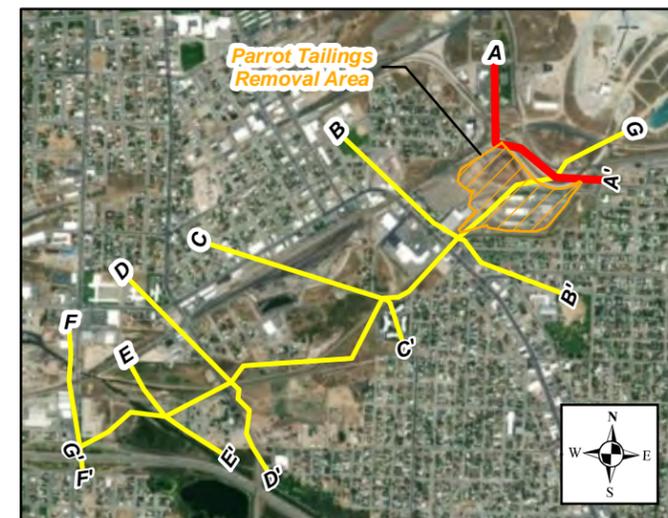
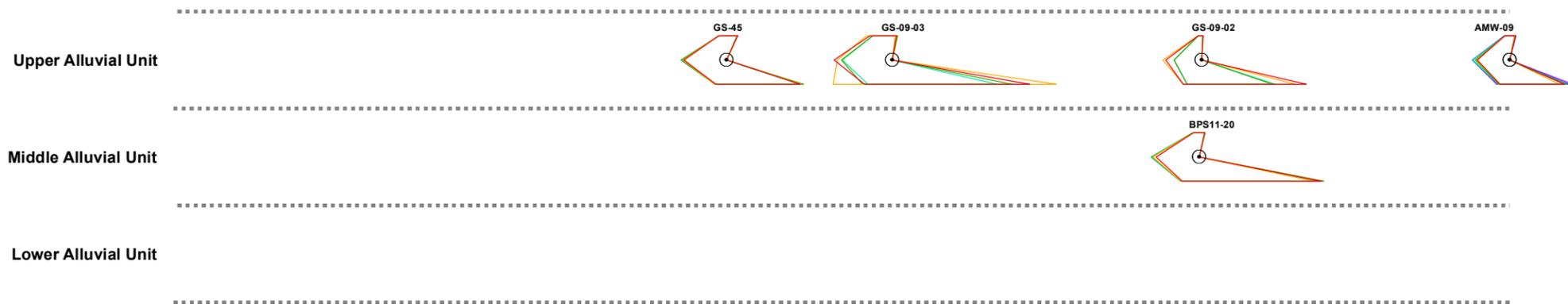
PARROT PMP

Well Transect Overview
Butte-Silver Bow County MT

Job#: NRDPM02
 Date: 5/7/2020

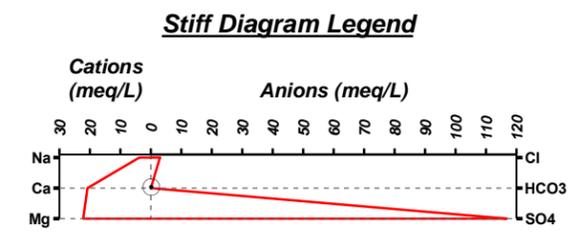
FIGURE 5

Path: E:\Home_M_Drive\Parrot\figure5 Sample Location.mxd, Author: jleprosse



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend	
Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
? Lithology Unknown	



PARROT PMP

Lithologic Transect A-A'

Job#: NRDPM02

Date: 5/12/2020

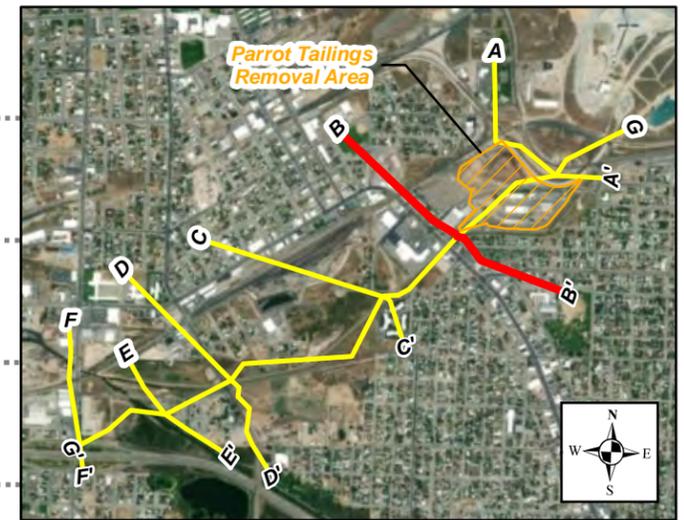
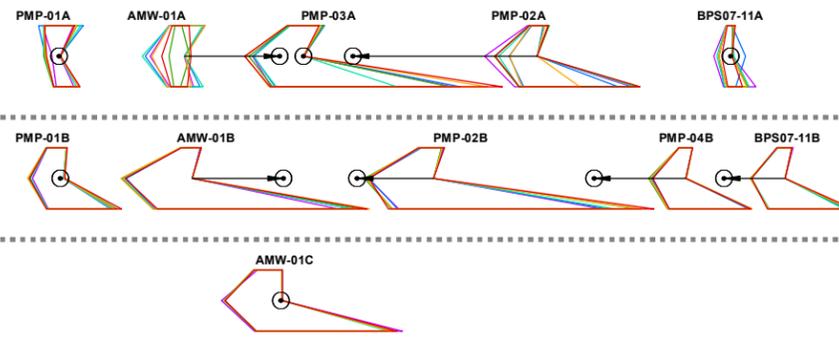
FIGURE 6

Path: M:\NRDPM02\GIS\020\Figure6-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford

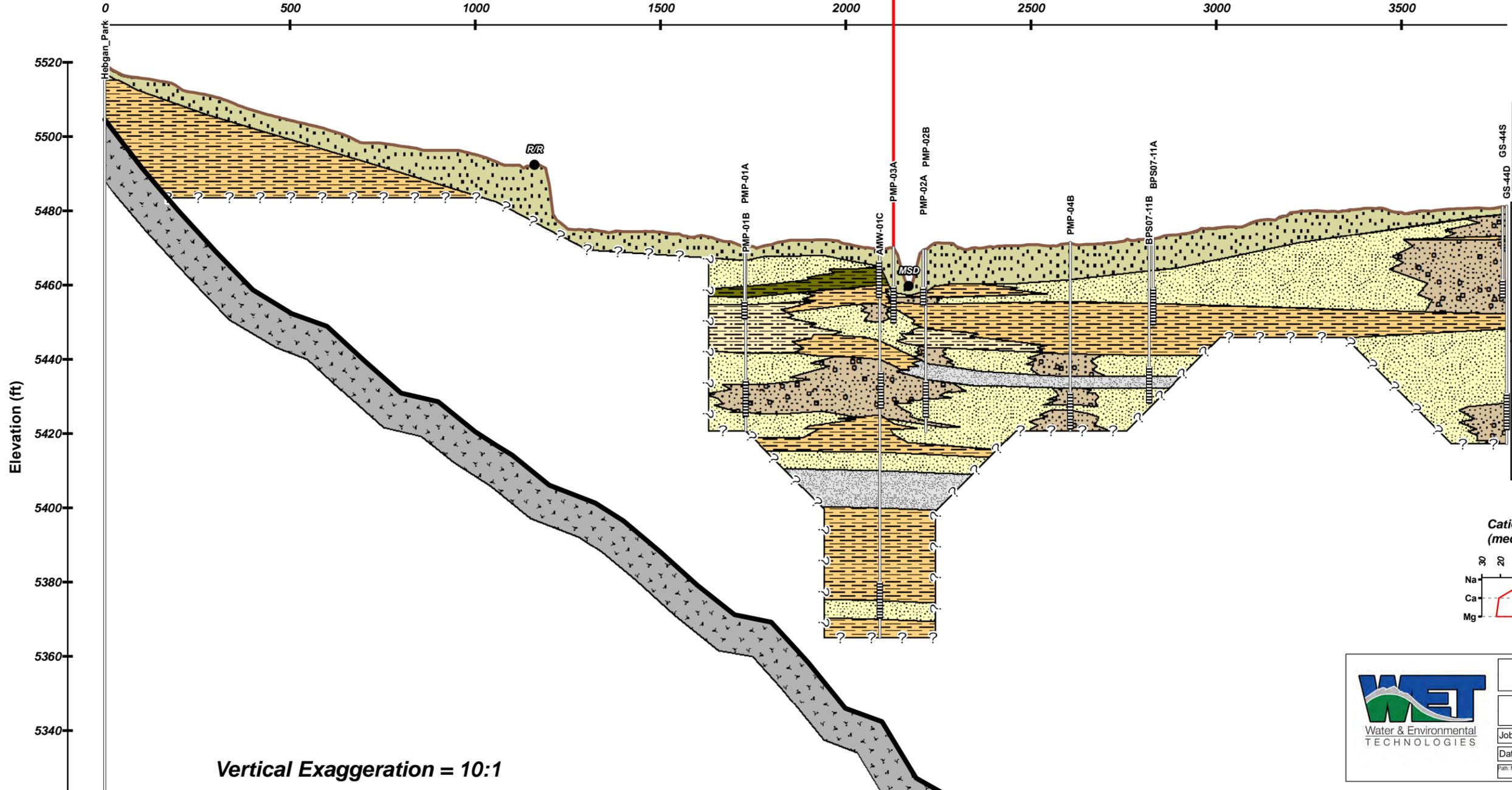
Upper Alluvial Unit

Middle Alluvial Unit

Lower Alluvial Unit



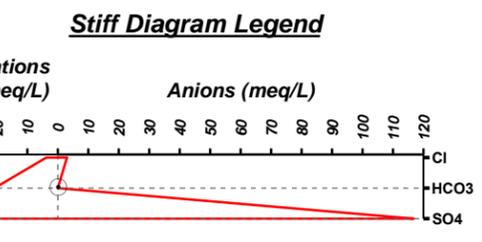
B ← NW
 Distance Along Section (ft)
 0 500 1000 1500 2000 2500 3000 3500
 → **B'** SE



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend

Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
? Lithology Unknown	



Vertical Exaggeration = 10:1

WET
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PARROT PMP

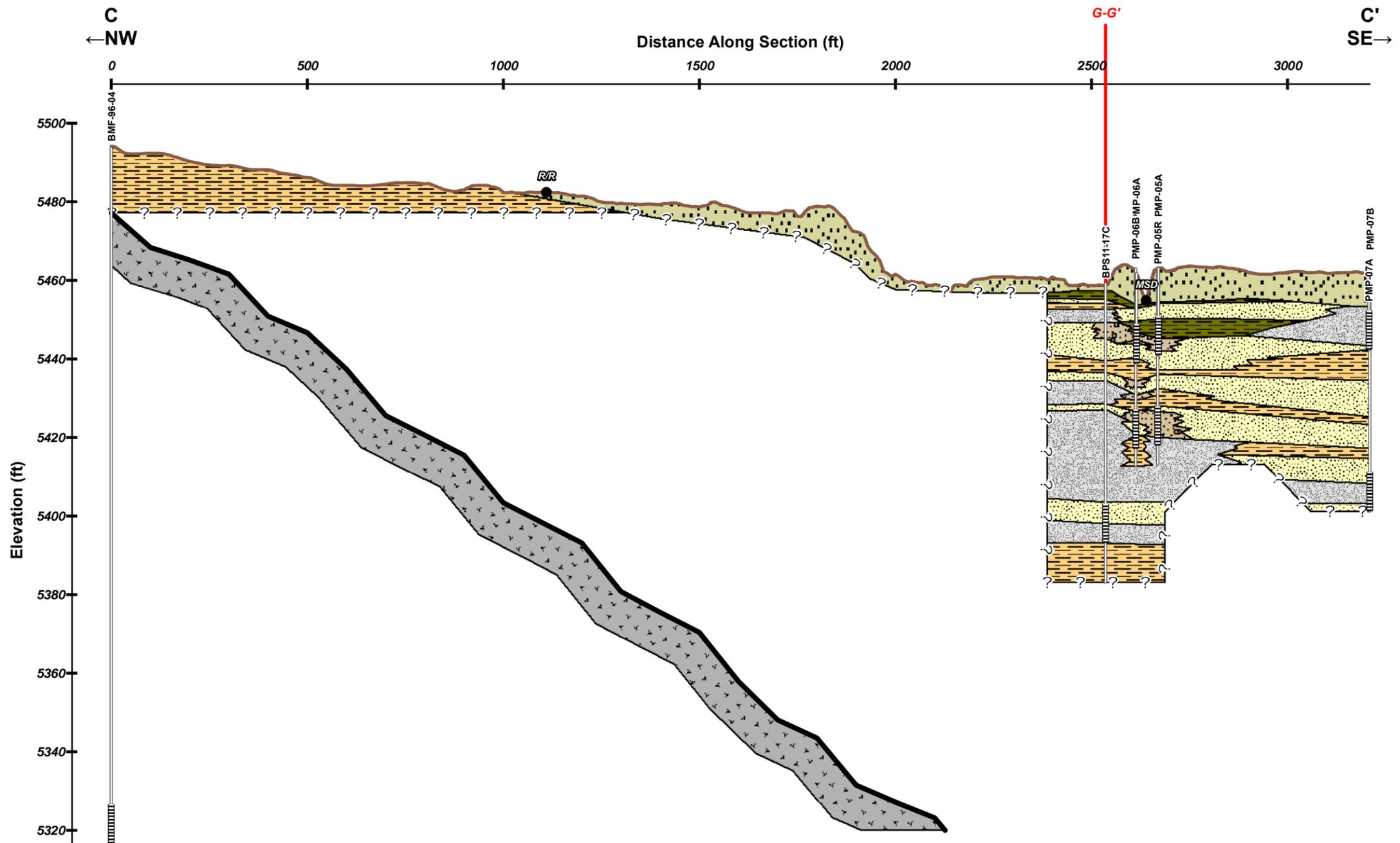
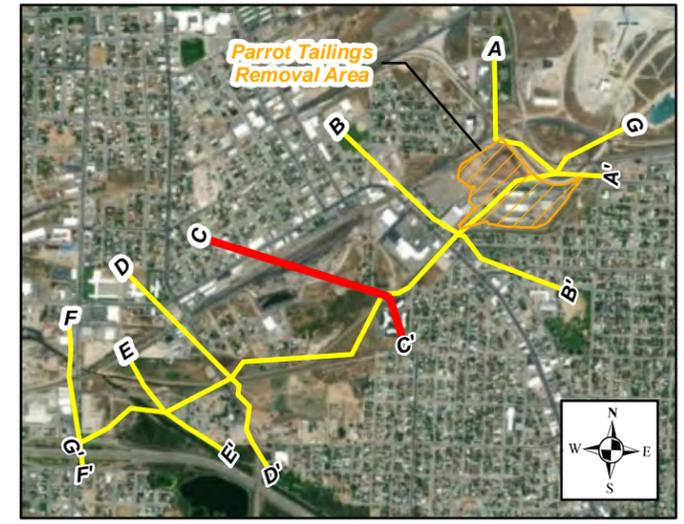
Lithologic Transect B-B'

Job#: NRDPM02

Date: 5/12/2020

FIGURE 7

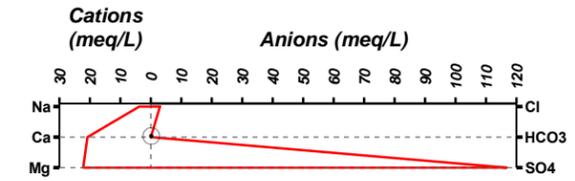
Path: M:\NRDPM02\GIS\020\Figure6-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend	
Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
? Lithology Unknown	

Stiff Diagram Legend



Vertical Exaggeration = 10:1

PARROT PMP

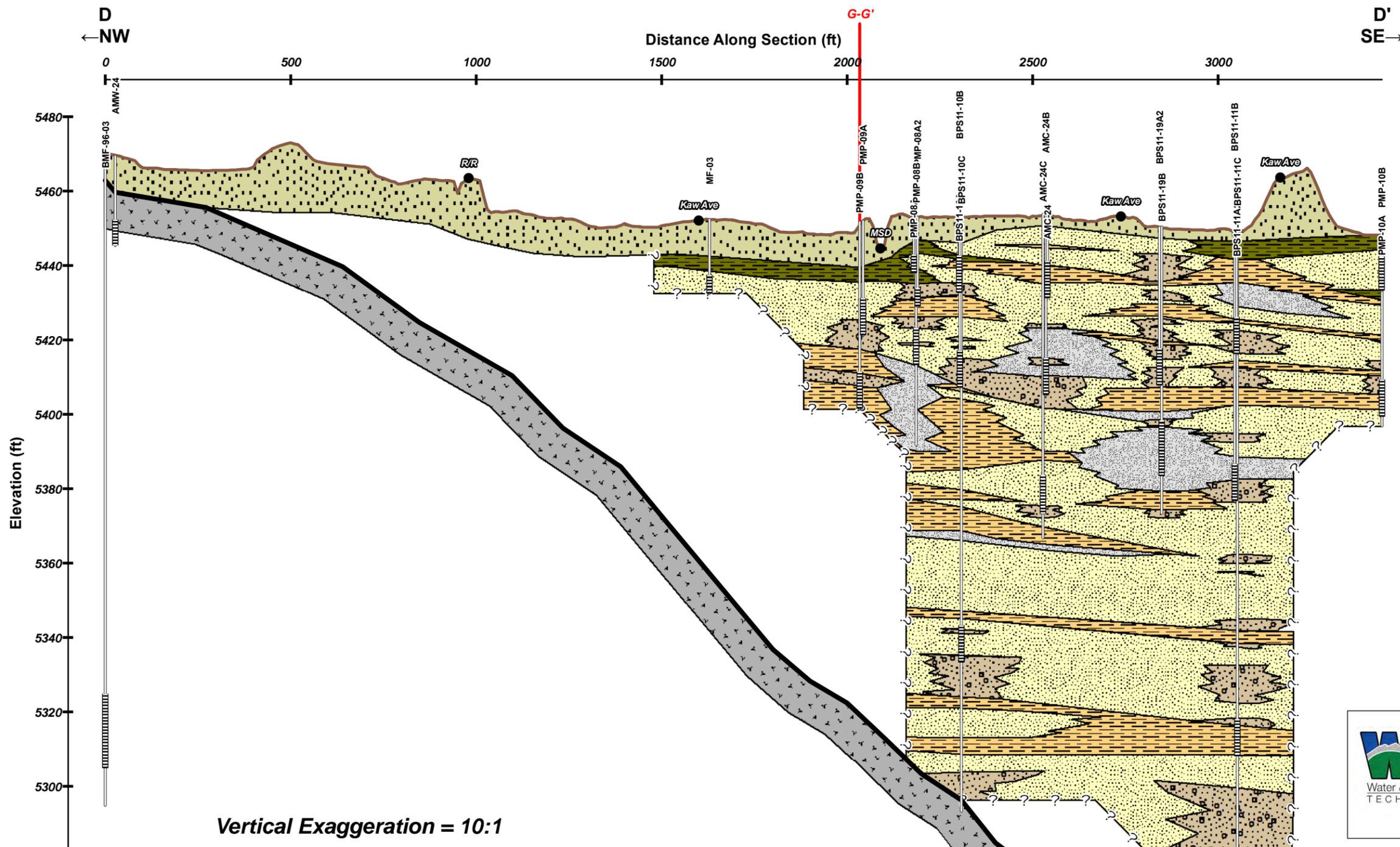
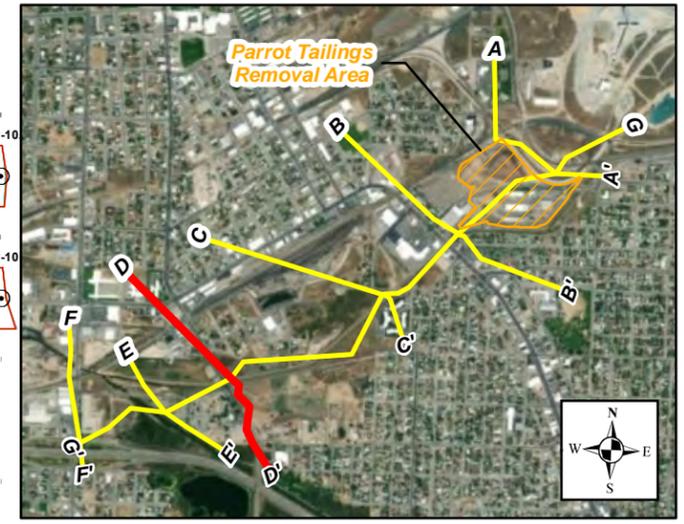
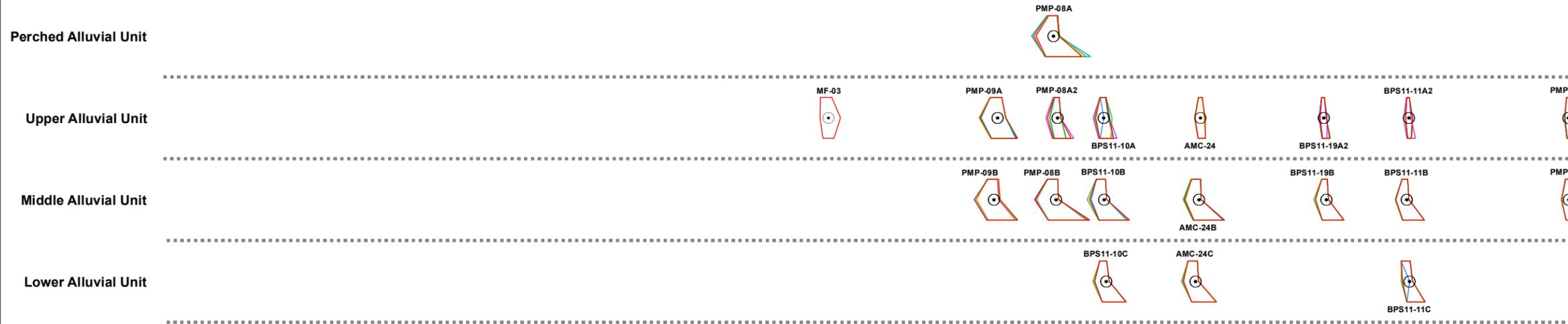
Lithologic Transect C-C'

Job#: NRDPM02

Date: 5/12/2020

FIGURE 8

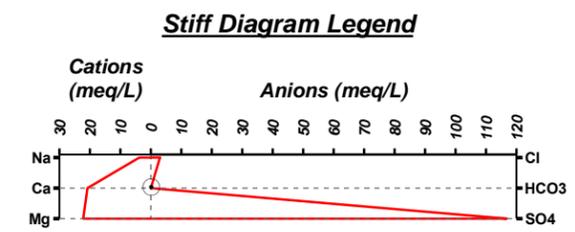
Path: M:\NRDPM02\GIS\020\Figure6-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend

Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
? Lithology Unknown	



Vertical Exaggeration = 10:1

PARROT PMP

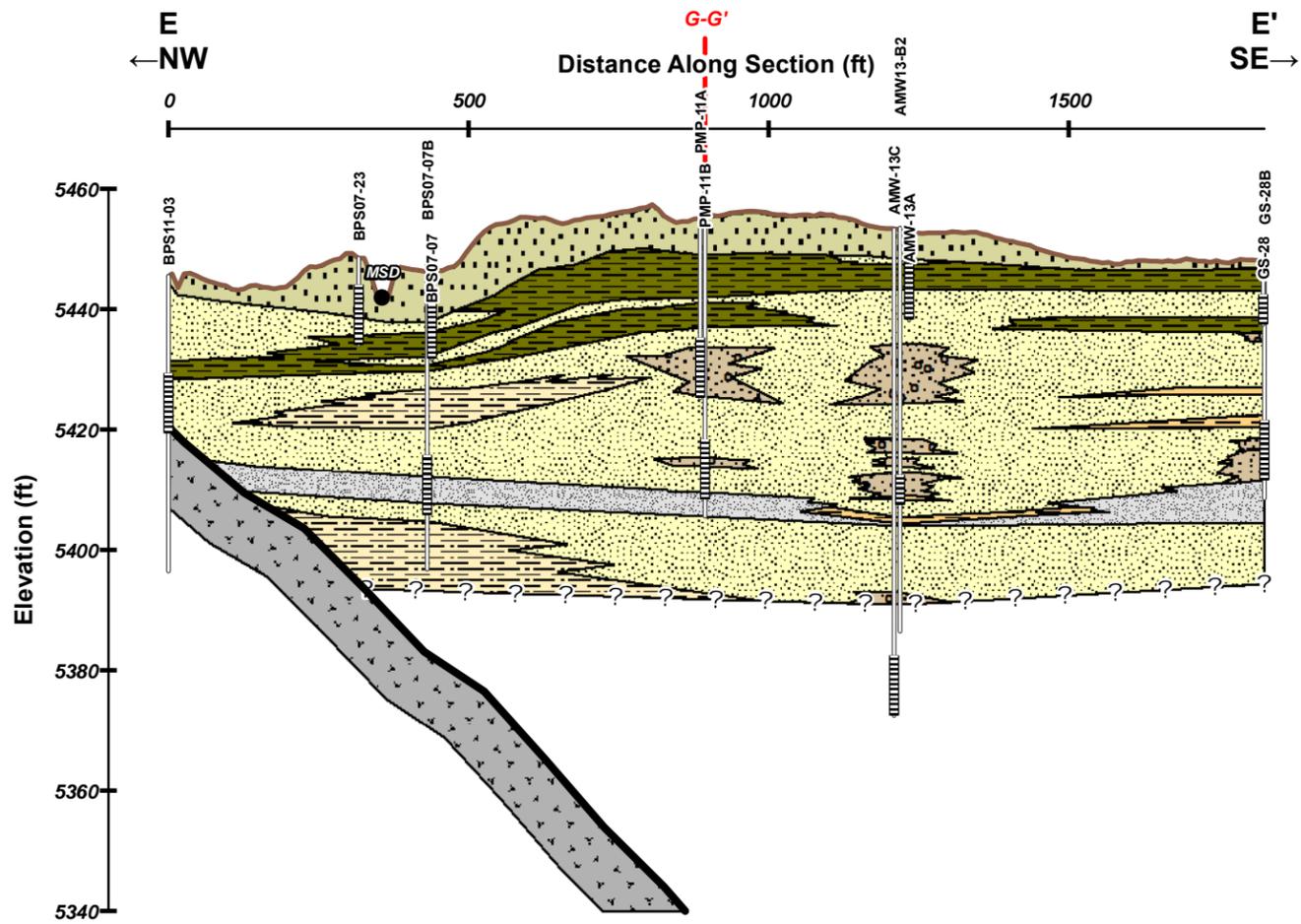
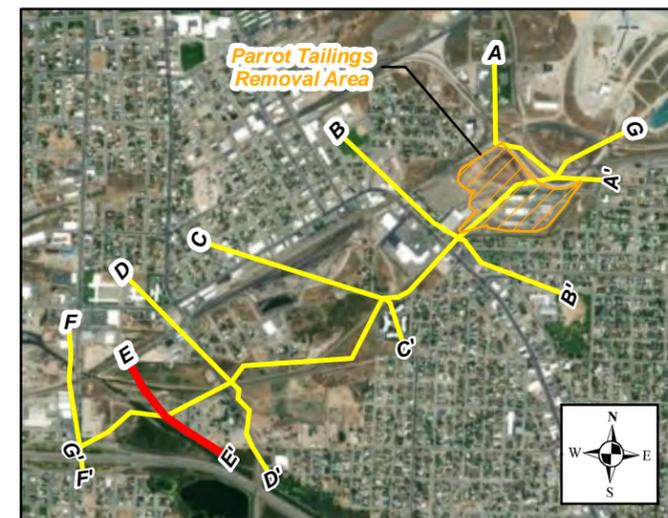
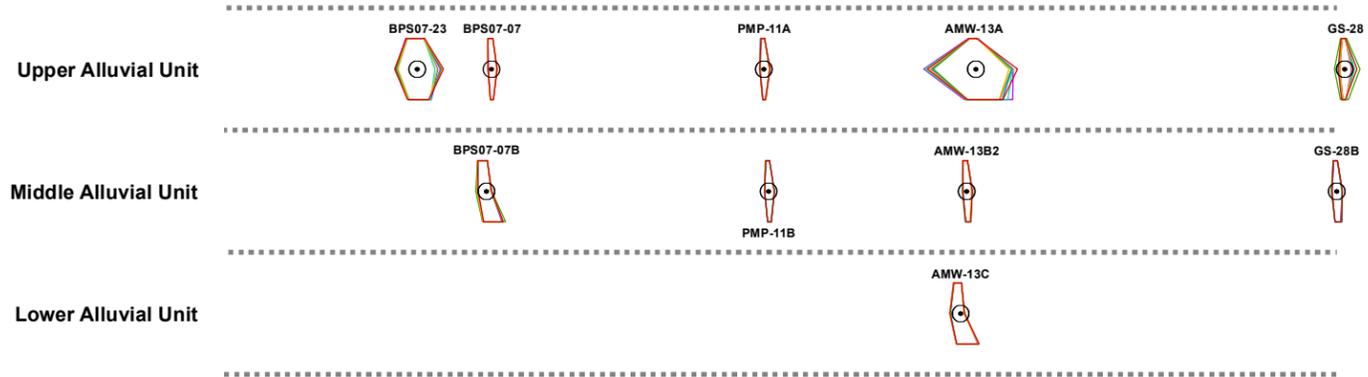
Lithologic Transect D-D'

Job#: NRDP02

Date: 5/12/2020

FIGURE 9

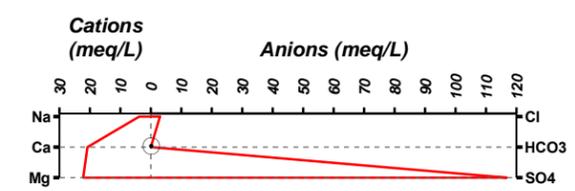
Path: M:\NRDP02\GIS\020\Figure6-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend	
Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
? Lithology Unknown	

Stiff Diagram Legend



Vertical Exaggeration = 10:1

PARROT PMP

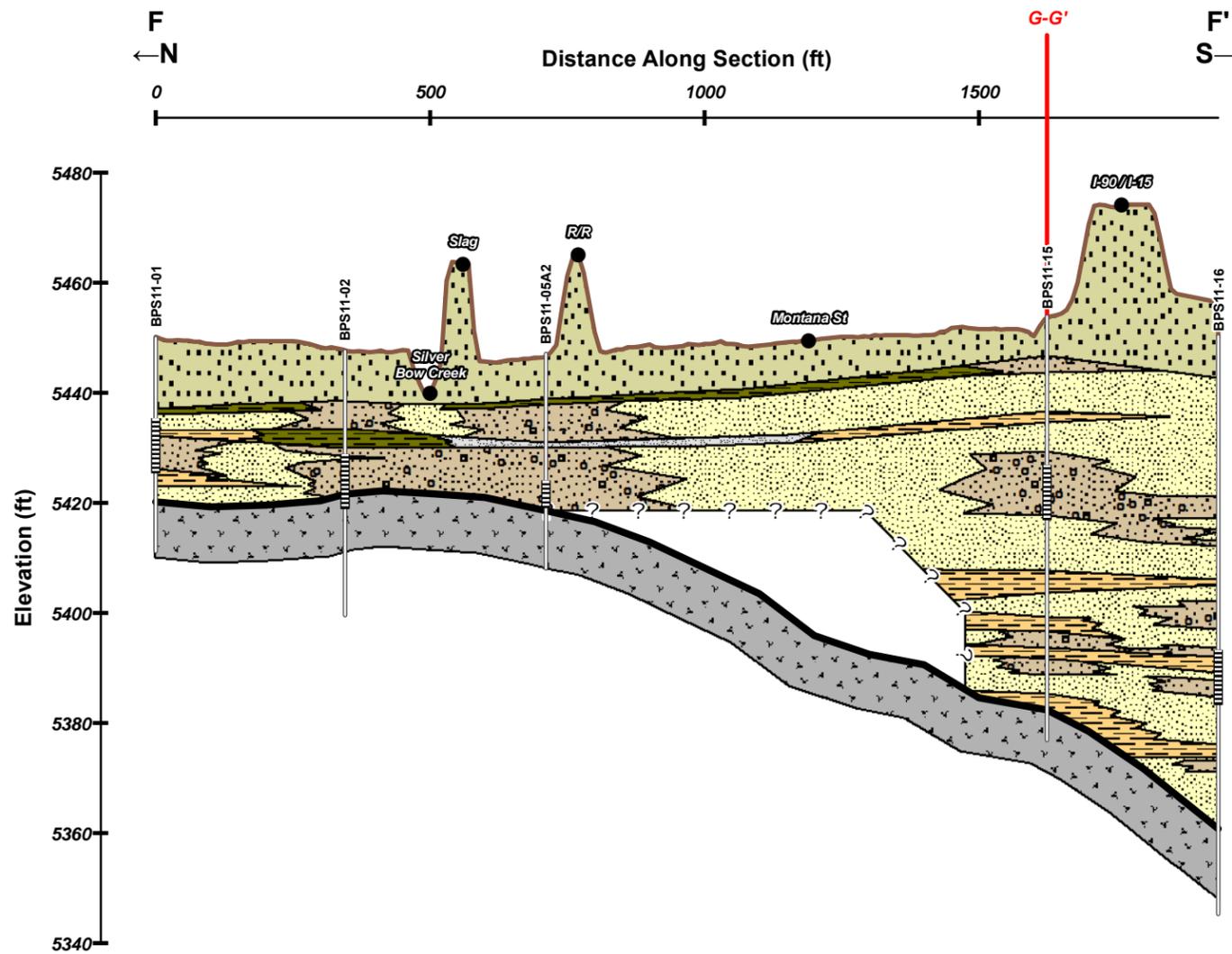
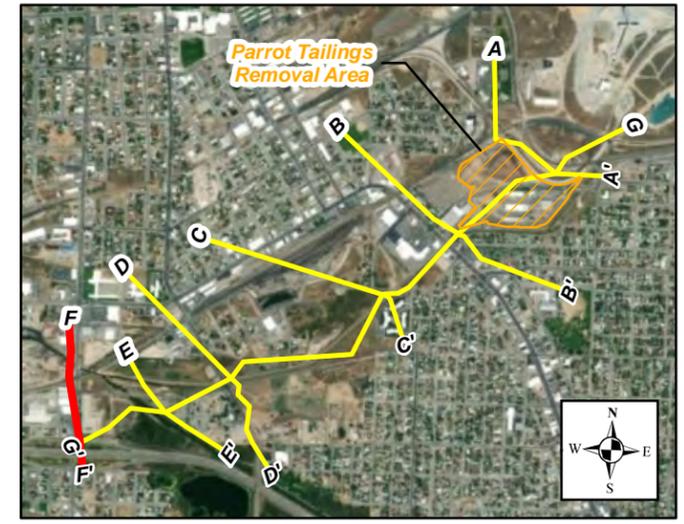
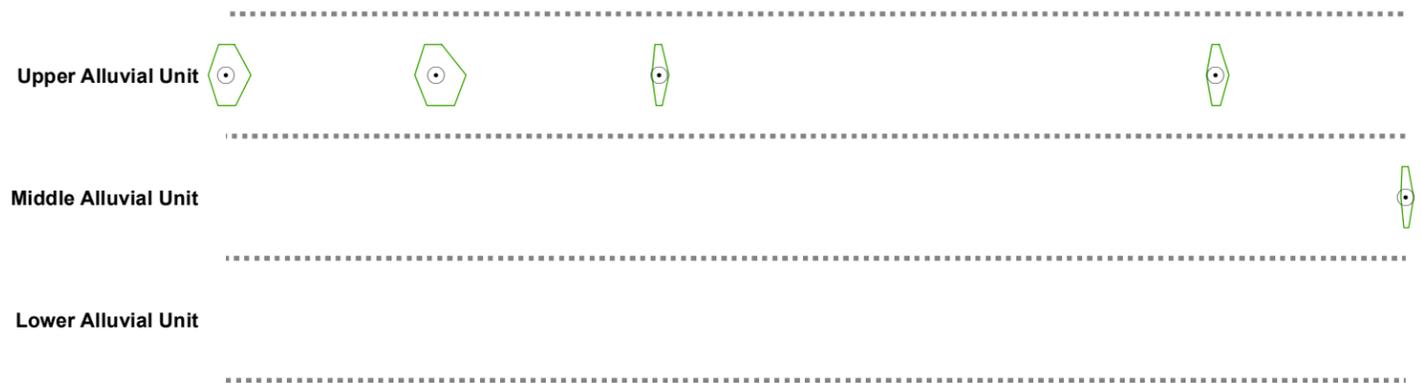
Lithologic Transect E-E'

Job#: NRDPM02

Date: 5/12/2020

FIGURE 10

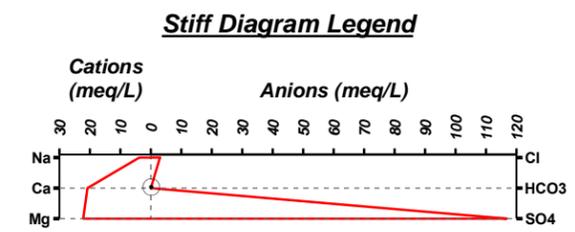
Path: M:\NRDPM02\GIS\020\Figure-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford



Notes:
 1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

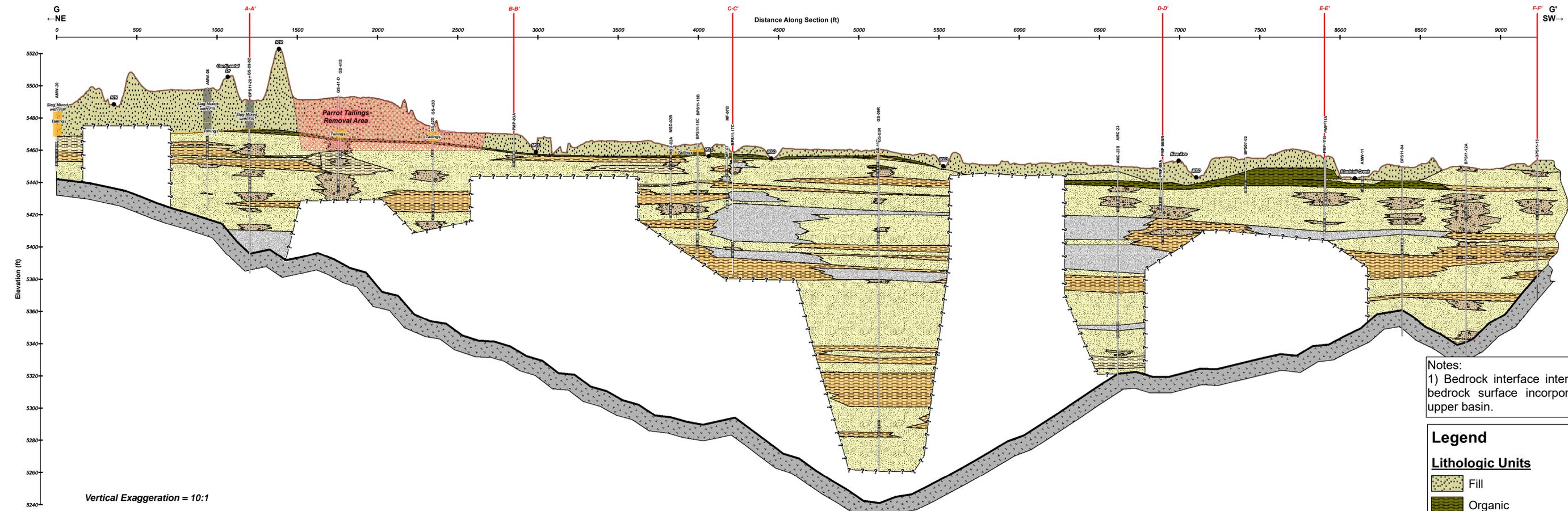
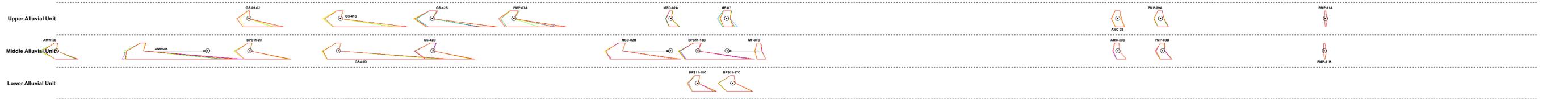
Legend

Lithologic Units	Stiff Diagrams
Fill	2018Q2
Organic	
Clay	
Silt	
Clayey Sand	
Sand	
Gravel	
Weathered Bedrock	
? Lithology Unknown	



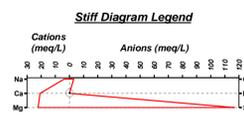
Vertical Exaggeration = 10:1

	PARROT PMP	
	Lithologic Transect F-F'	
	Job#: NRDP02	FIGURE 11
	Date: 5/12/2020	
<small>Path: M:\NRDPM02\GIS\020\Figure-11 Lithologic Transect A, B, C, D, E, F.mxd, Author: brutherford</small>		



Notes:
1) Bedrock interface interpreted from larger bedrock surface incorporating 57 wells in upper basin.

Legend	
Lithologic Units	Stiff Diagrams
Fill	2017Q4
Organic	2018Q1
Clay	2018Q2
Silt	2018Q3
Clayey Sand	2018Q4
Sand	2019Q1
Gravel	
Weathered Bedrock	
Lithology Unknown	



PARROT PMP

Lithologic Transect G-G'

Job#: NRDPM02

Date: 5/13/2020

FIGURE 12

Path: M:\NRDPM02\GIS\2020\Figure12 Lithologic Transect G.mxd, Author: brutherford