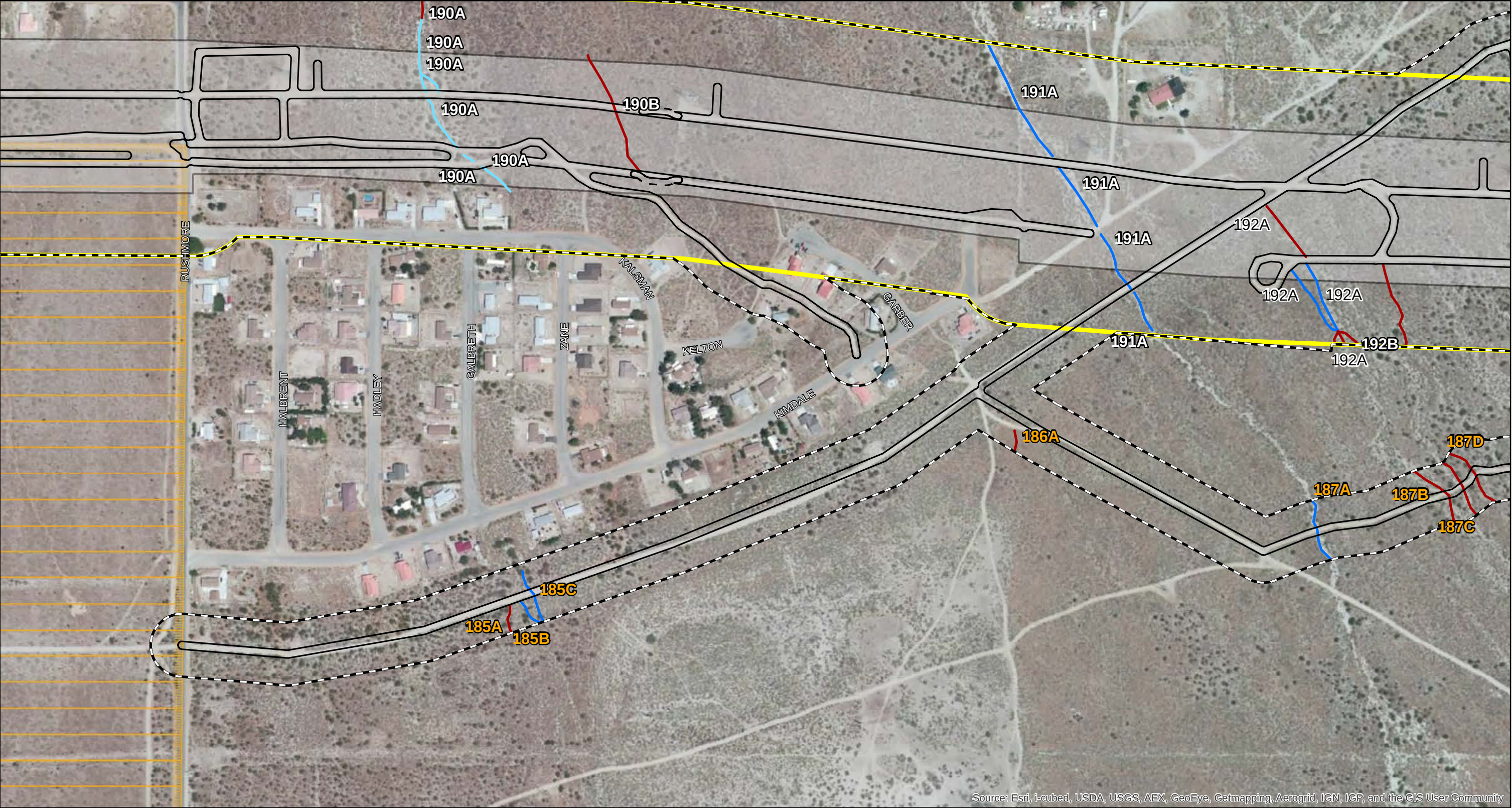




Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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Project Study Area	Staging Yards	Potentially Jurisdictional Wetland Drainage - CDFW/USACE	Potentially Jurisdictional Wetland - CDFW/USACE
Existing Right of Way	Existing Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
WOD Existing Right of Way to be Removed	Proposed Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW	Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
200 feet from Right of Way	Morongo Reservation	Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	Potentially Jurisdictional Nonwetland Basin - CDFW
Soil Pit ID		2012 Drainage labels	Open Water
		2013 Drainage labels	Ponding Features

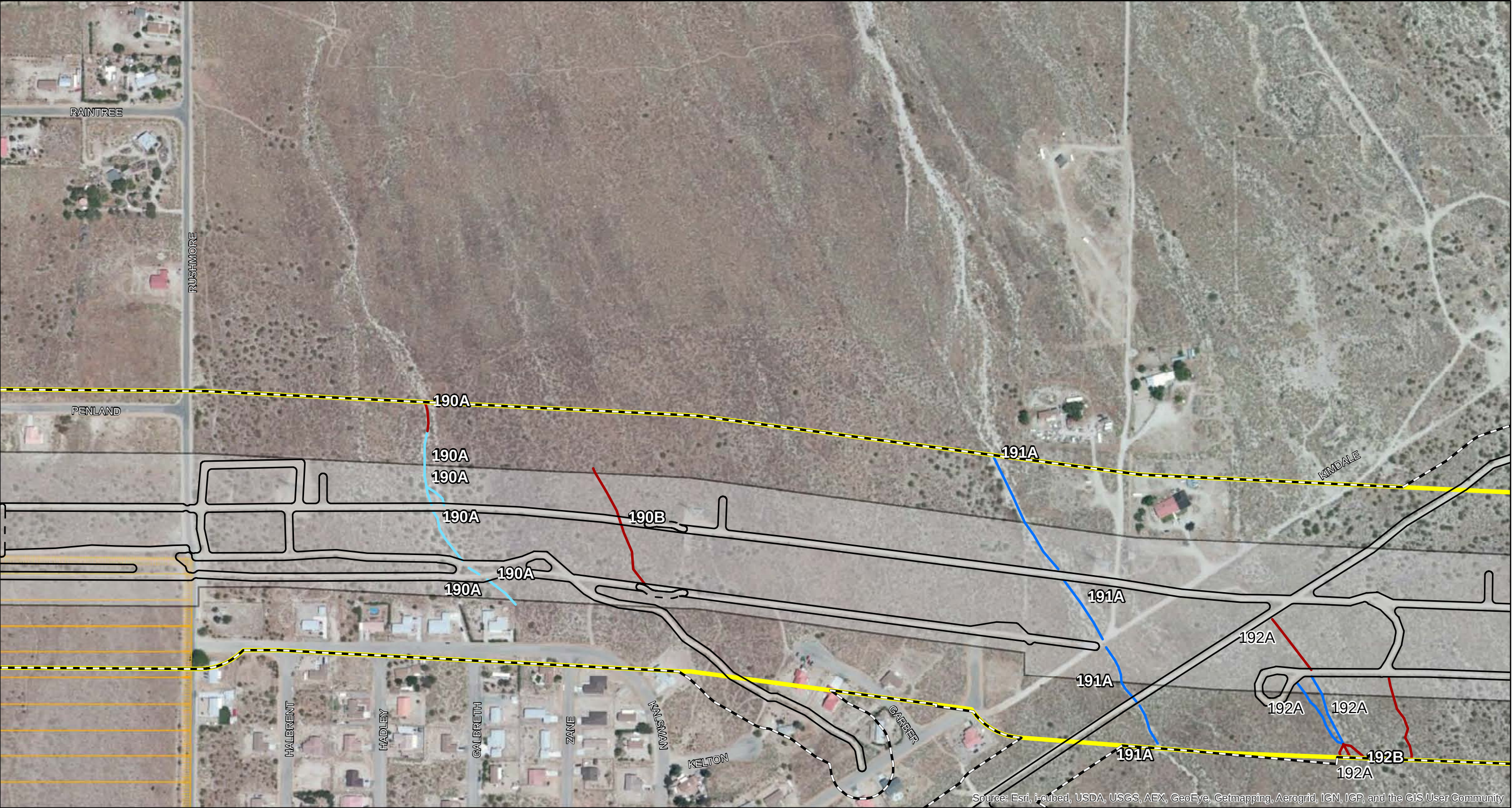
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Source: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

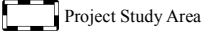
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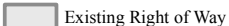


Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

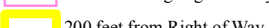


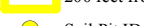
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 Project Study Area

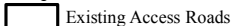
 Existing Right of Way

 WOD Existing Right of Way to be Removed

 200 feet from Right of Way

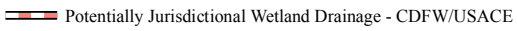
 Soil Pit ID

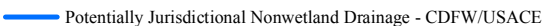
 Staging Yards

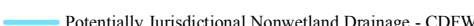
 Existing Access Roads

 Proposed Access Roads

 Morongo Reservation

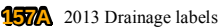
 Potentially Jurisdictional Wetland Drainage - CDFW/USACE

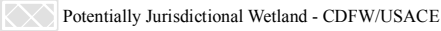
 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE

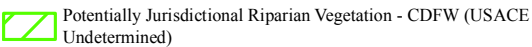
 Potentially Jurisdictional Nonwetland Drainage - CDFW

 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)

 2012 Drainage labels

 2013 Drainage labels

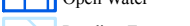
 Potentially Jurisdictional Wetland - CDFW/USACE

 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)

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 Potentially Jurisdictional Nonwetland Basin - CDFW

 Open Water

 Ponding Features

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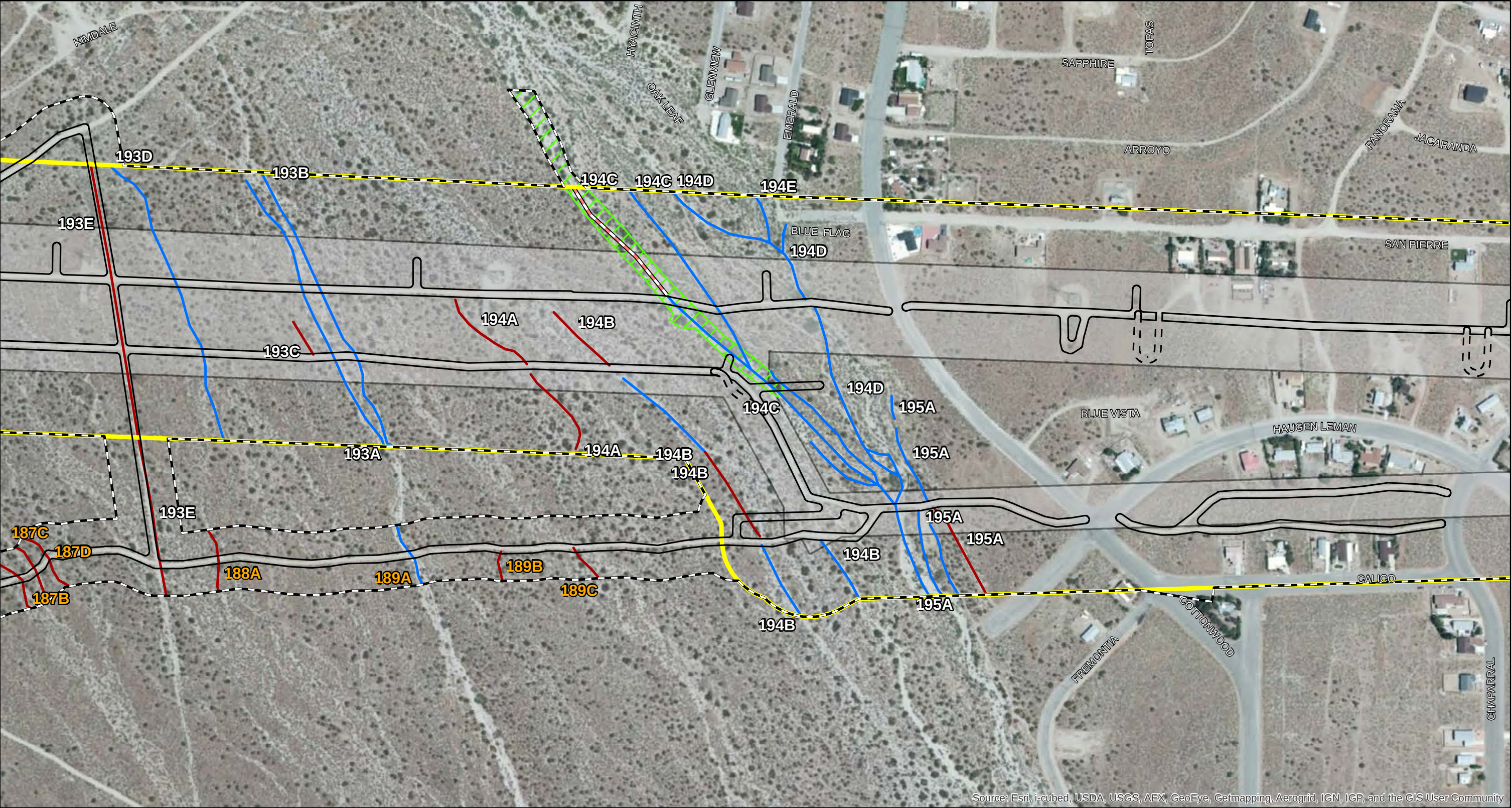
SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

FIGURE 2
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LEGEND

- Project Study Area
- Existing Right of Way
- WOD Existing Right of Way to be Removed
- 200 feet from Right of Way
- Soil Pit ID
- Staging Yards
- Existing Access Roads
- Proposed Access Roads
- Morongo Reservation
- Potentially Jurisdictional Wetland Drainage - CDFW/USACE
- Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE
- Potentially Jurisdictional Nonwetland Drainage - CDFW
- Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)
- 2012 Drainage labels
- 2013 Drainage labels
- Potentially Jurisdictional Wetland - CDFW/USACE
- Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
- Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
- Potentially Jurisdictional Nonwetland Basin - CDFW
- Open Water
- Ponding Features

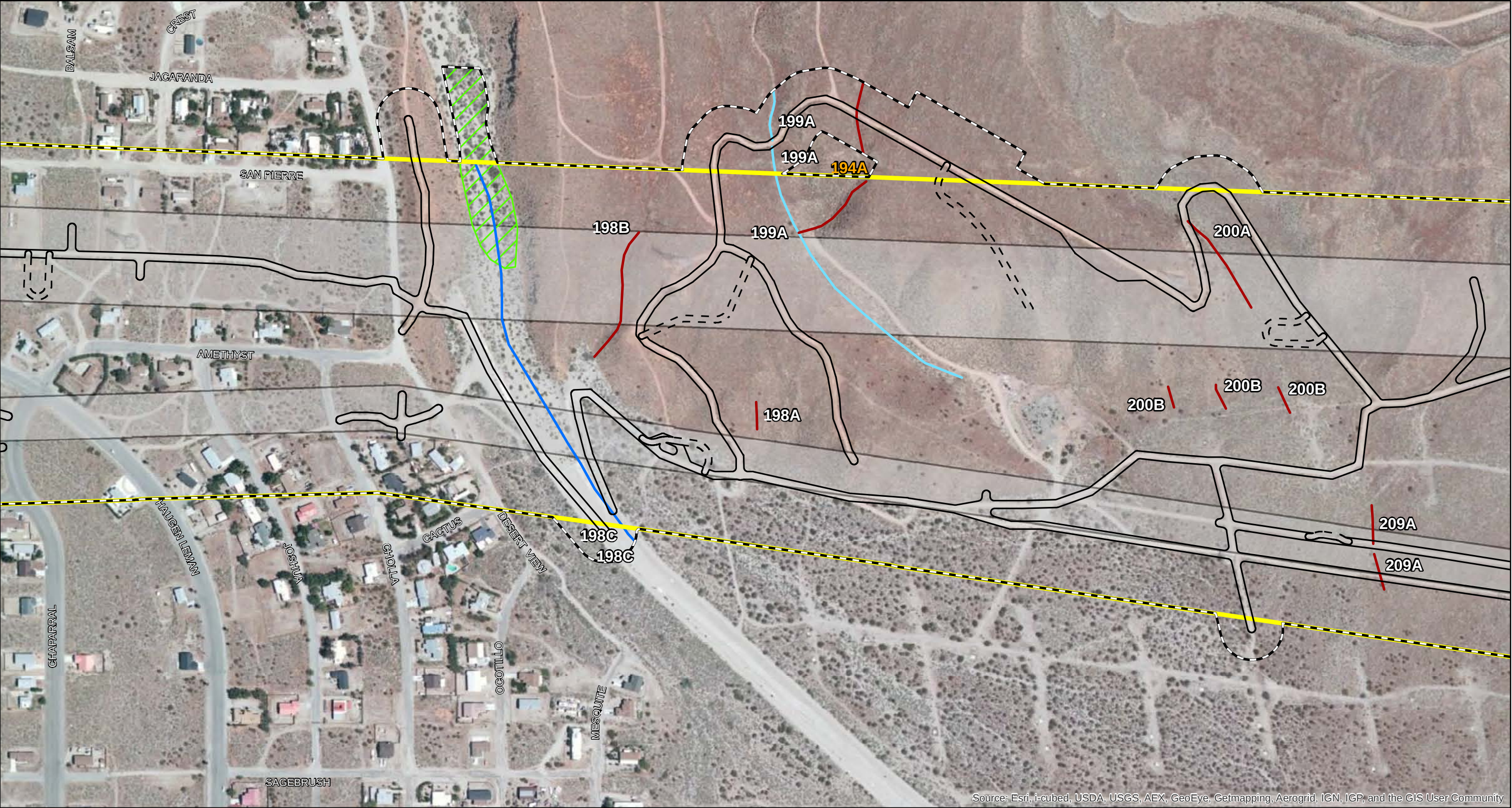
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SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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LEGEND

 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

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FEET

Source: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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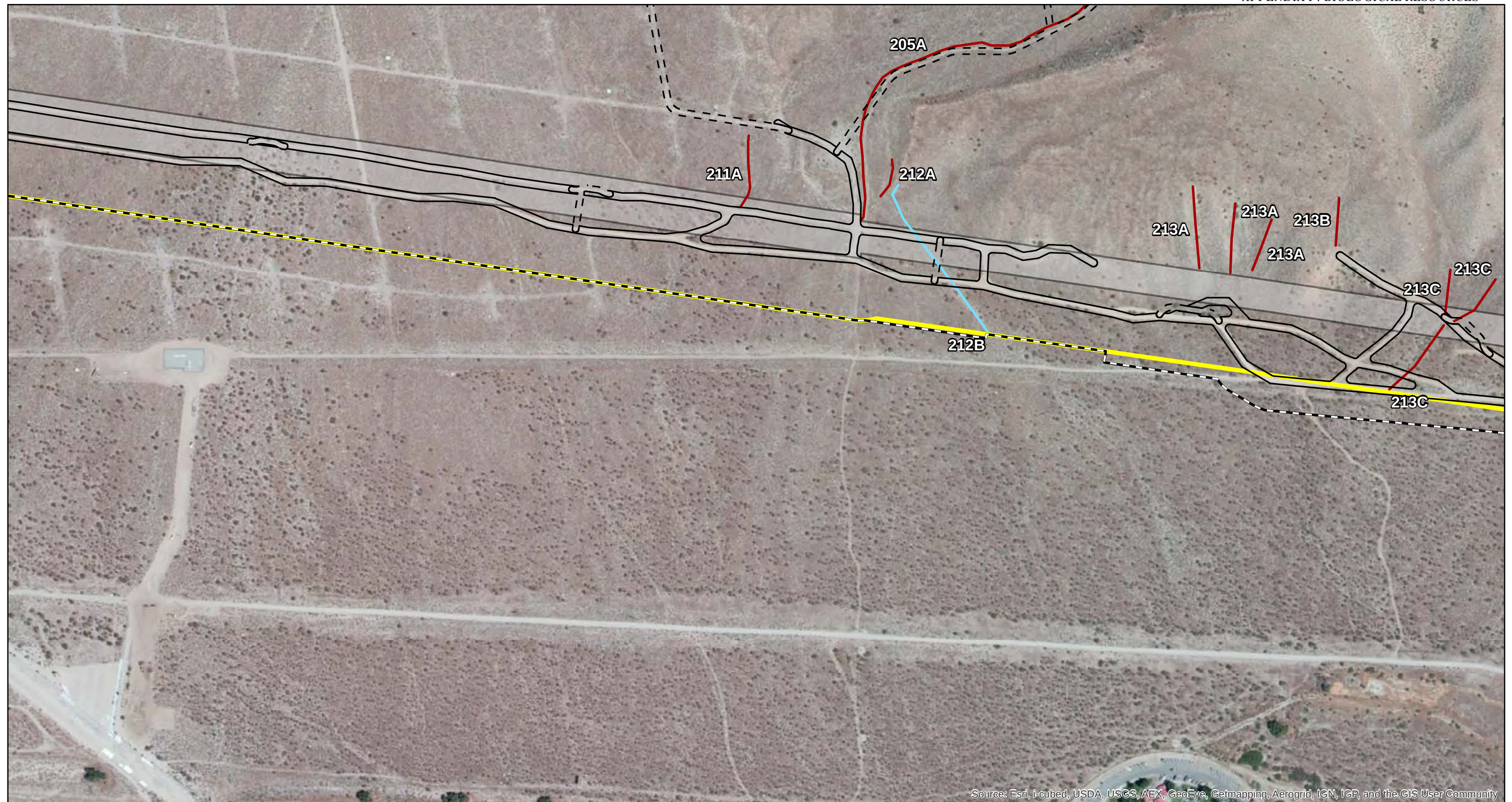
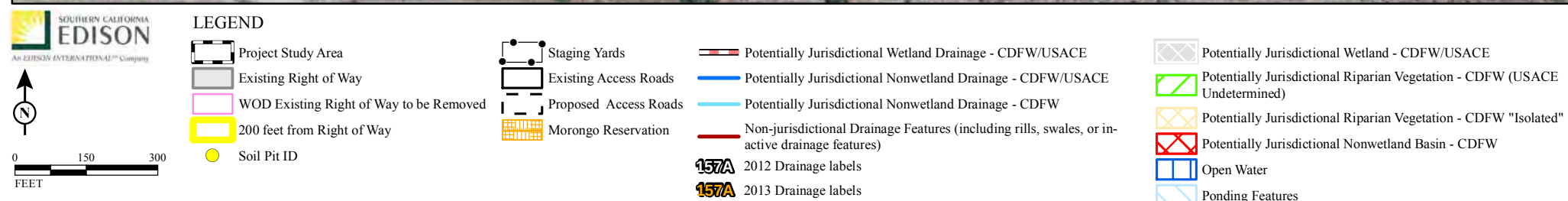


FIGURE 2
Sheet 87 of 108



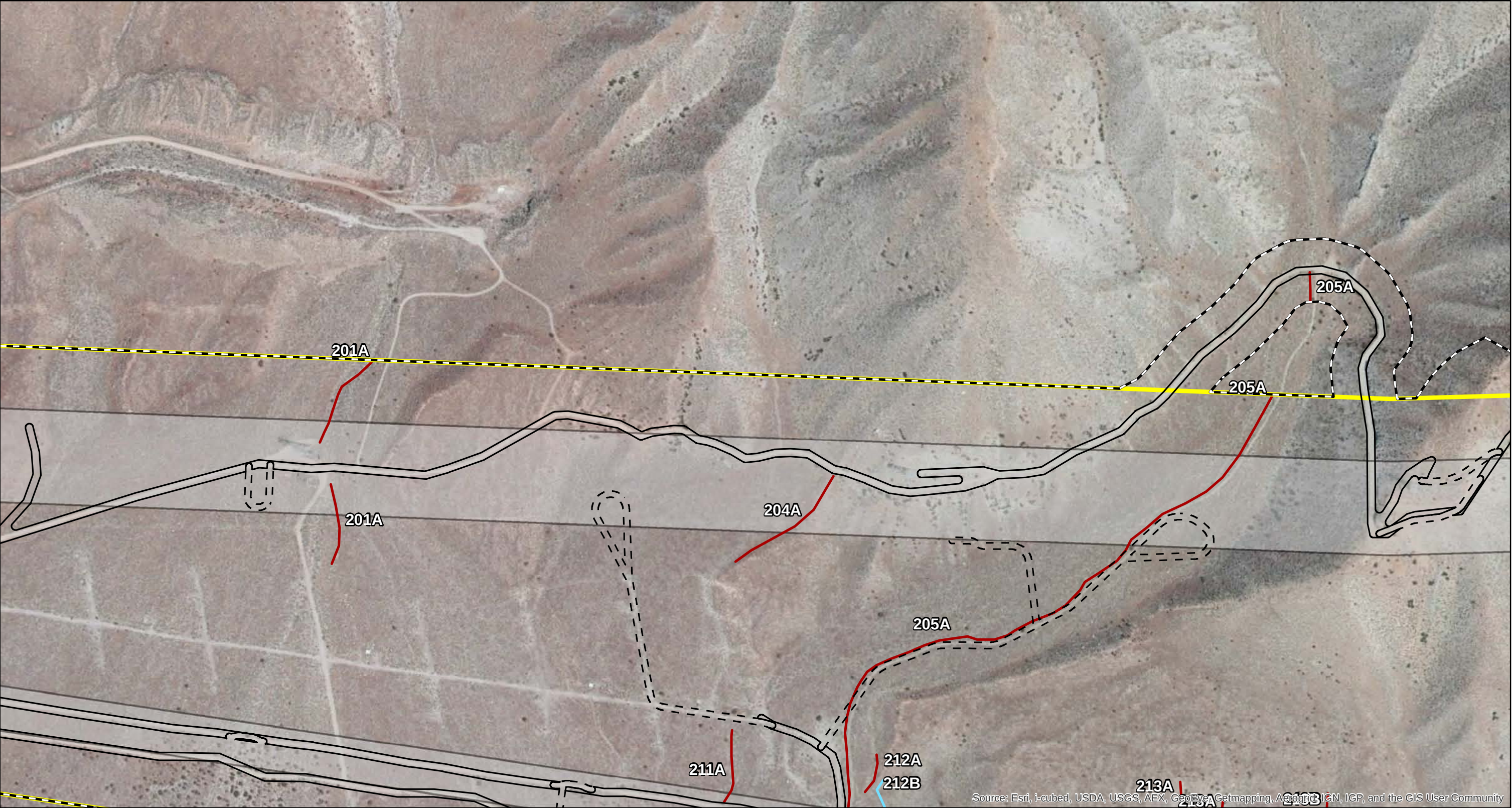
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*Proponent's Environmental Assessment
West of Devers Upgrade Project*

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West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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LEGEND

 Project Study Area

 Existing Right of Way

 WOD Existing Right of Way to be Removed

 200 feet from Right of Way

 Soil Pit ID

 Staging Yards

 Existing Access Roads

 Proposed Access Roads

 Morongo Reservation

 Potentially Jurisdictional Wetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW

 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)

 2012 Drainage labels

 2013 Drainage labels

 Potentially Jurisdictional Wetland - CDFW/USACE

 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)

 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"

 Potentially Jurisdictional Nonwetland Basin - CDFW

 Open Water

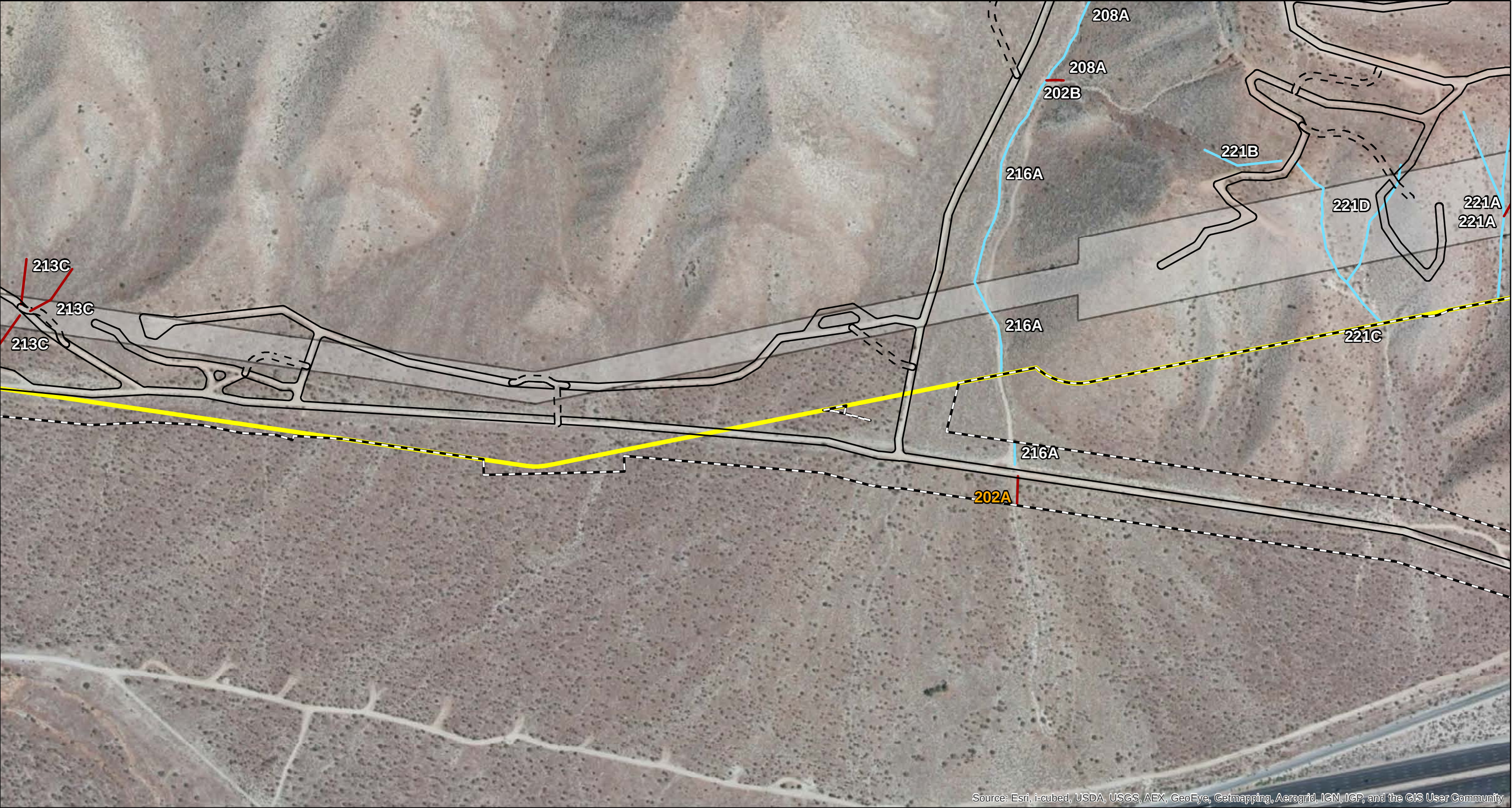
 Ponding Features

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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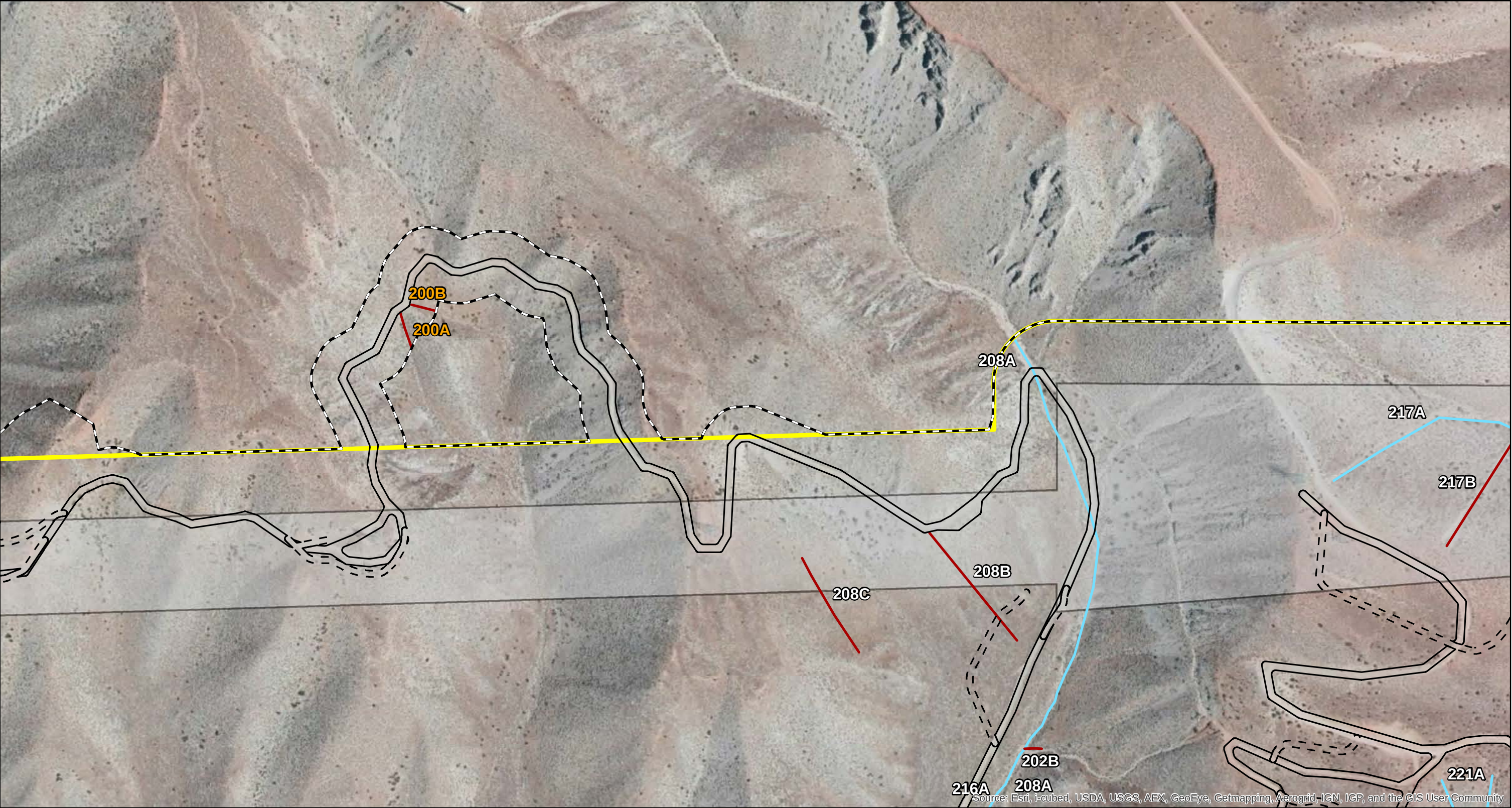
 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

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SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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LEGEND

 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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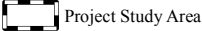
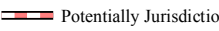
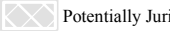
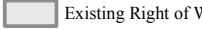
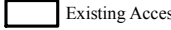
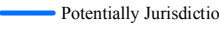
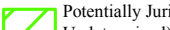
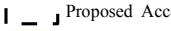
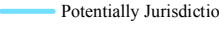
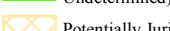
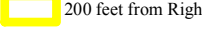
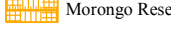
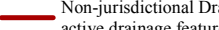
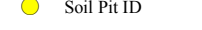
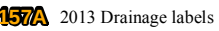
	Project Study Area		Staging Yards		Potentially Jurisdictional Wetland Drainage - CDFW/USACE		Potentially Jurisdictional Wetland - CDFW/USACE
	Existing Right of Way		Existing Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE		Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
	WOD Existing Right of Way to be Removed		Proposed Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW		Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
	200 feet from Right of Way		Morongo Reservation		Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)		Potentially Jurisdictional Nonwetland Basin - CDFW
	Soil Pit ID				2012 Drainage labels		Open Water
					2013 Drainage labels		Ponding Features

FIGURE 2
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SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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LEGEND

 Project Study Area

 Existing Right of Way

 WOD Existing Right of Way to be Removed

 200 feet from Right of Way

 Soil Pit ID

 Staging Yards

 Existing Access Roads

 Proposed Access Roads

 Morongo Reservation

 Potentially Jurisdictional Wetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW

 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)

 157A 2012 Drainage labels

 157A 2013 Drainage labels

 Potentially Jurisdictional Wetland - CDFW/USACE

 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)

 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"

 Potentially Jurisdictional Nonwetland Basin - CDFW

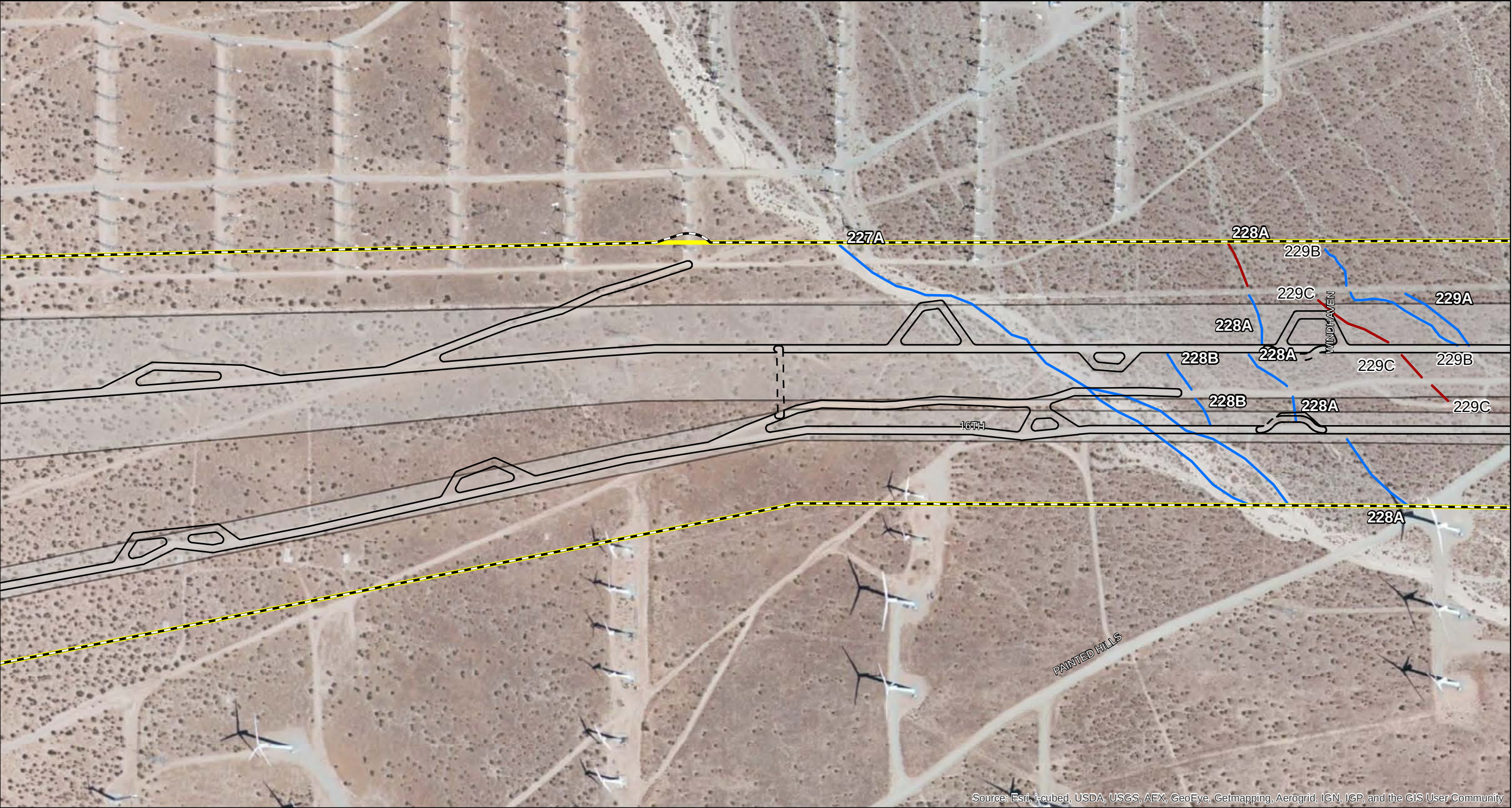
 Open Water

 Ponding Features

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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



LEGEND

 Project Study Area

 Existing Right of Way

 WOD Existing Right of Way to be Removed

 200 feet from Right of Way

 Soil Pit ID

 Staging Yards

 Existing Access Roads

 Proposed Access Roads

 Morongo Reservation

 Potentially Jurisdictional Wetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE

 Potentially Jurisdictional Nonwetland Drainage - CDFW

 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)

 2012 Drainage labels

 2013 Drainage labels

 Potentially Jurisdictional Wetland - CDFW/USACE

 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)

 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"

 Potentially Jurisdictional Nonwetland Basin - CDFW

 Open Water

 Ponding Features

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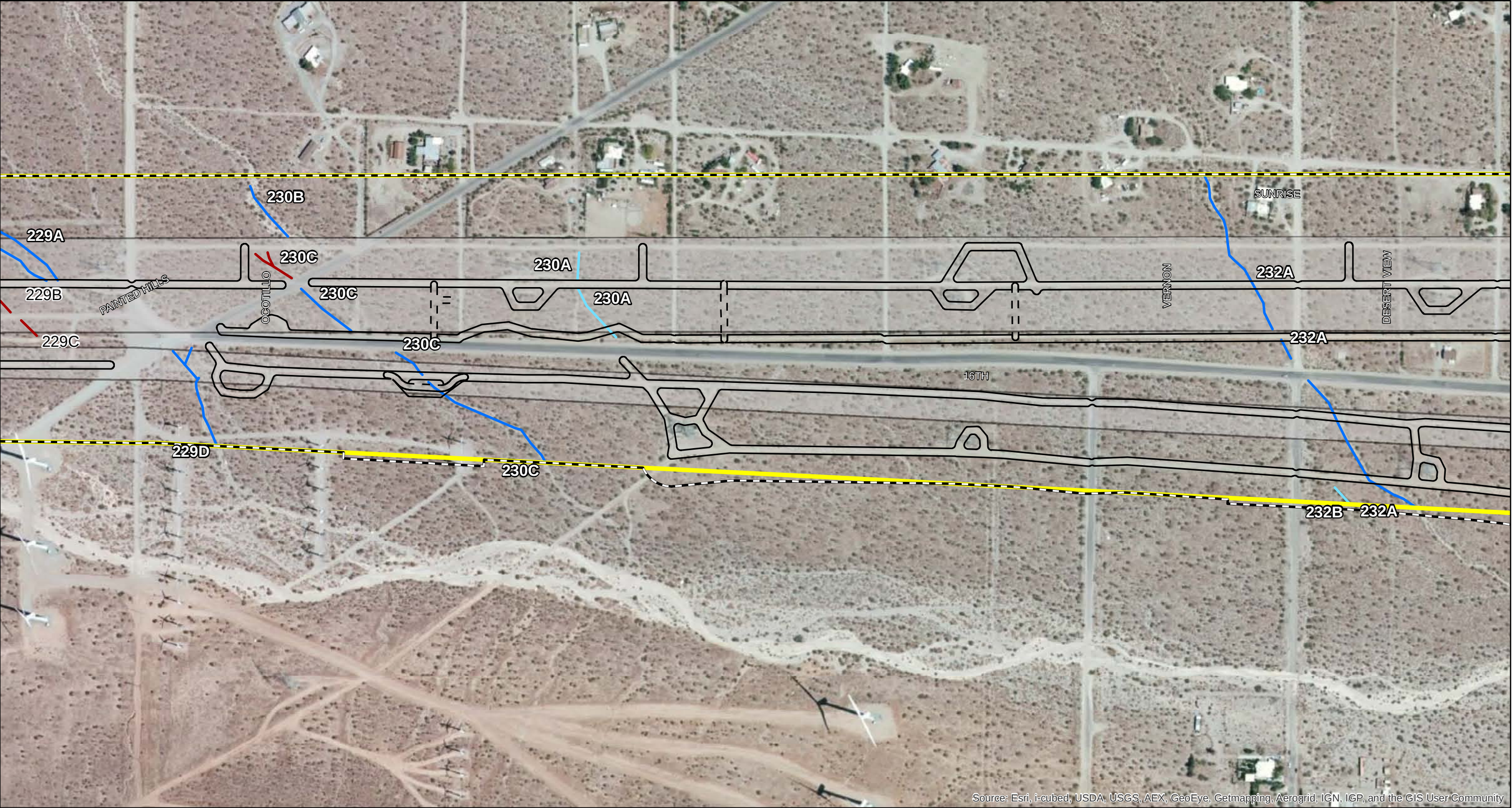
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FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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LEGEND

 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

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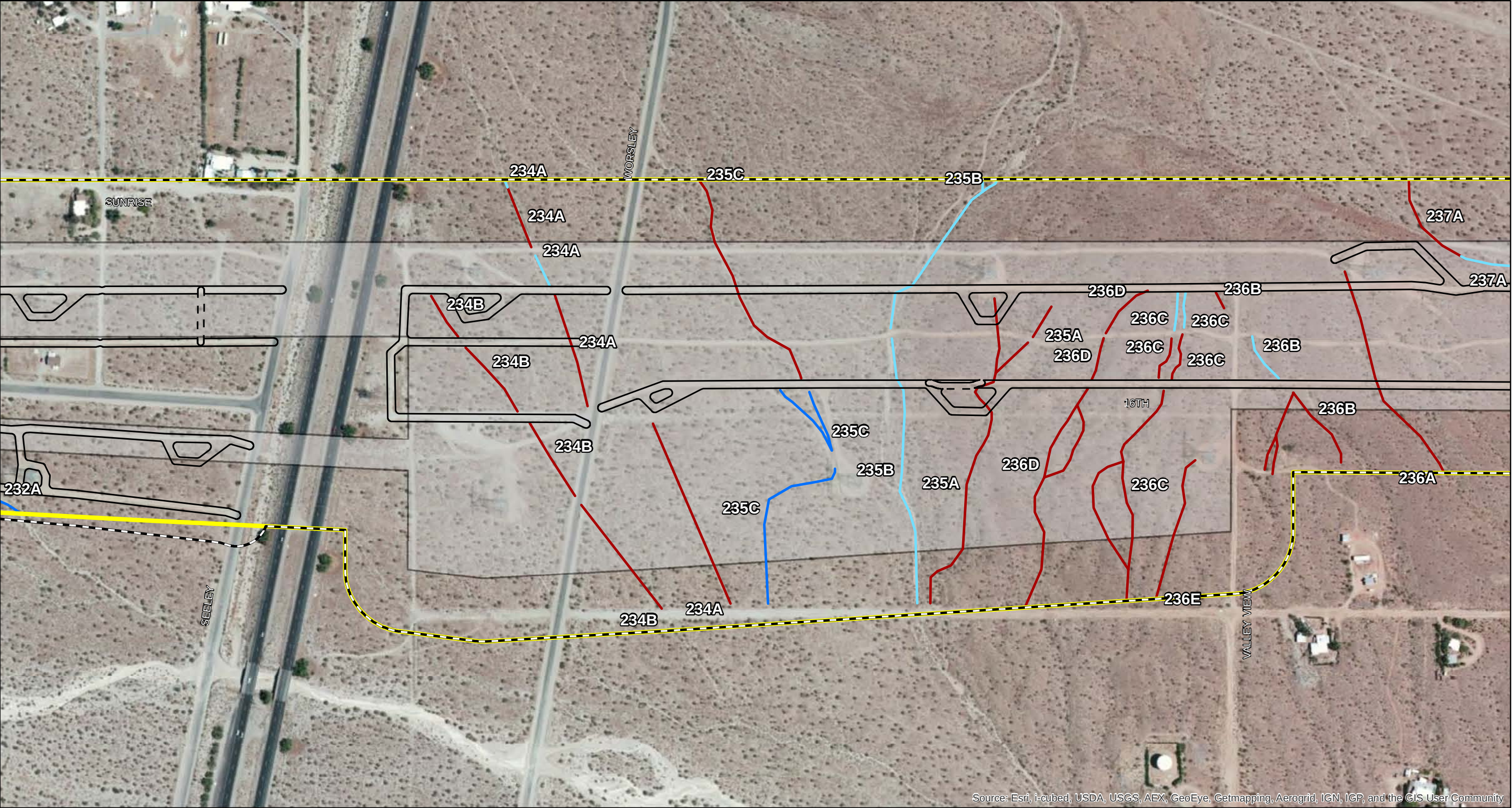
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FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

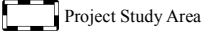
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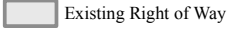
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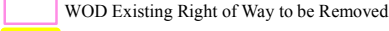
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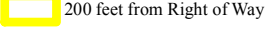
Project Study Area



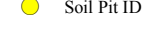
Existing Right of Way



WOD Existing Right of Way to be Removed



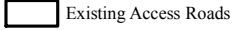
200 feet from Right of Way



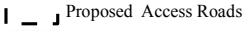
Soil Pit ID



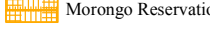
Staging Yards



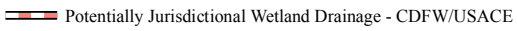
Existing Access Roads



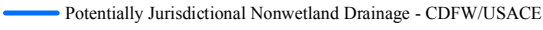
Proposed Access Roads



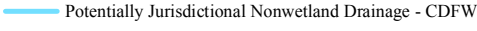
Morongo Reservation



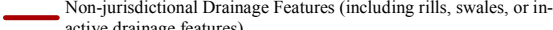
Potentially Jurisdictional Wetland Drainage - CDFW/USACE



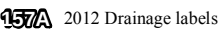
Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE



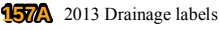
Potentially Jurisdictional Nonwetland Drainage - CDFW



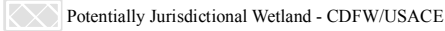
Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)



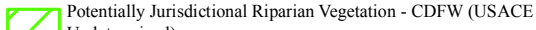
2012 Drainage labels



2013 Drainage labels



Potentially Jurisdictional Wetland - CDFW/USACE



Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)



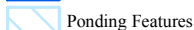
Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"



Potentially Jurisdictional Nonwetland Basin - CDFW



Open Water



Ponding Features

FIGURE 2
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SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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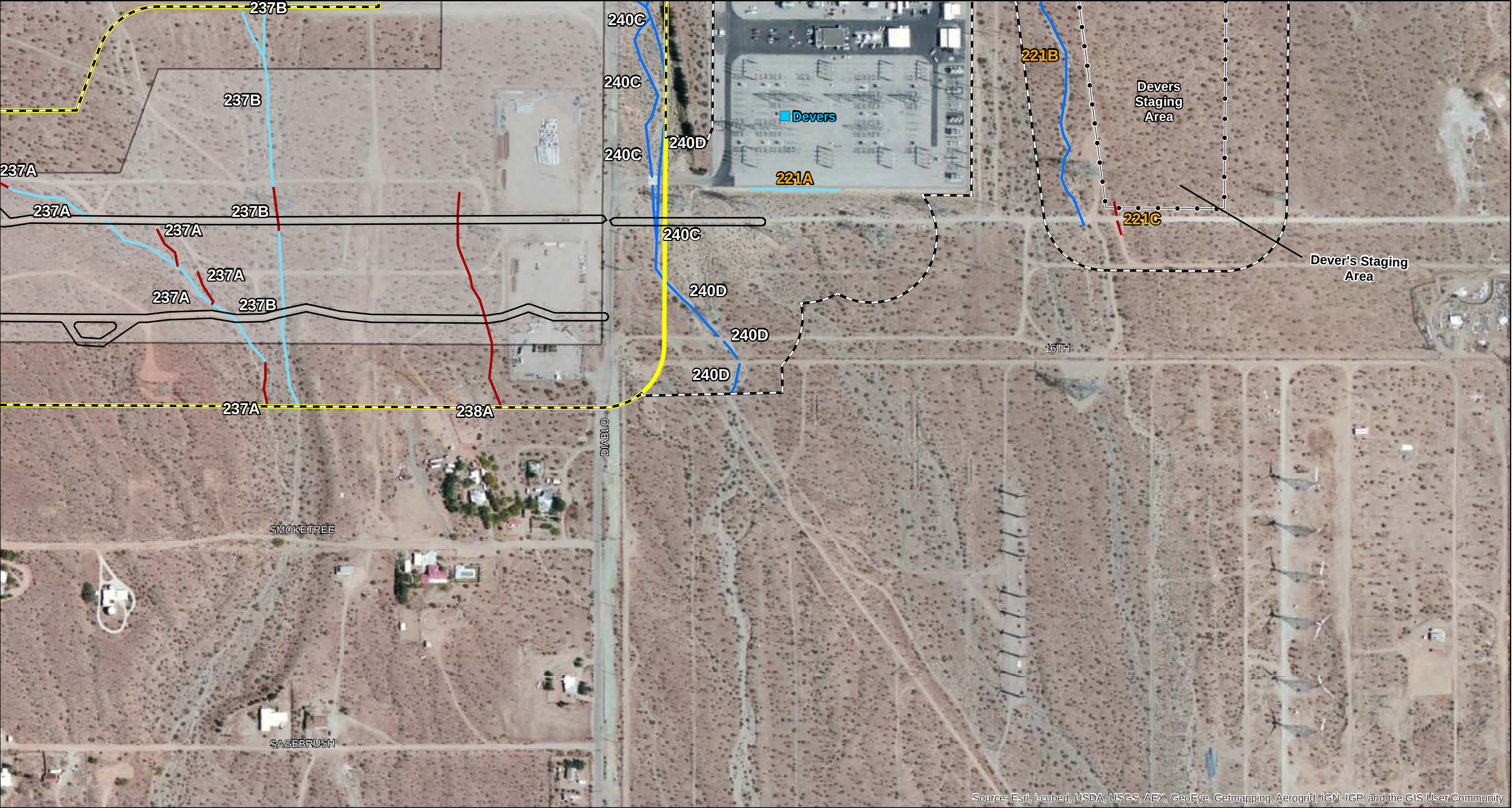


FIGURE 2
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LEGEND

 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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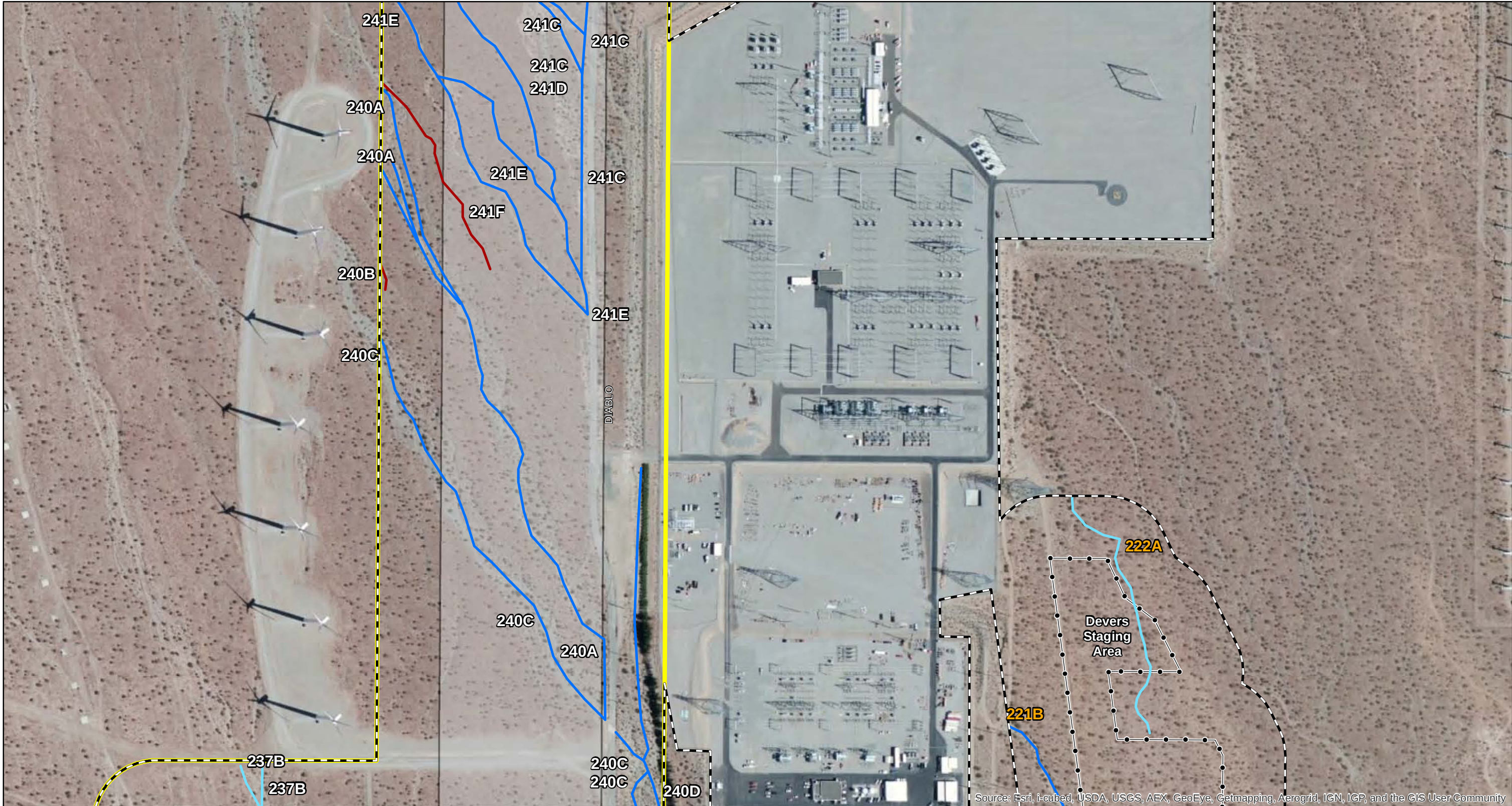
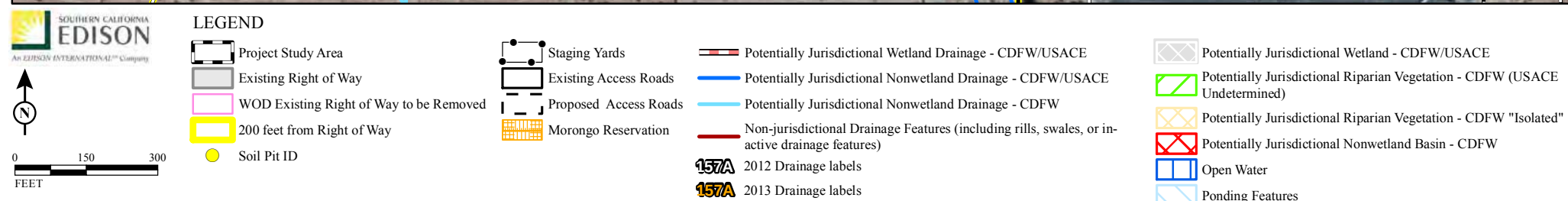
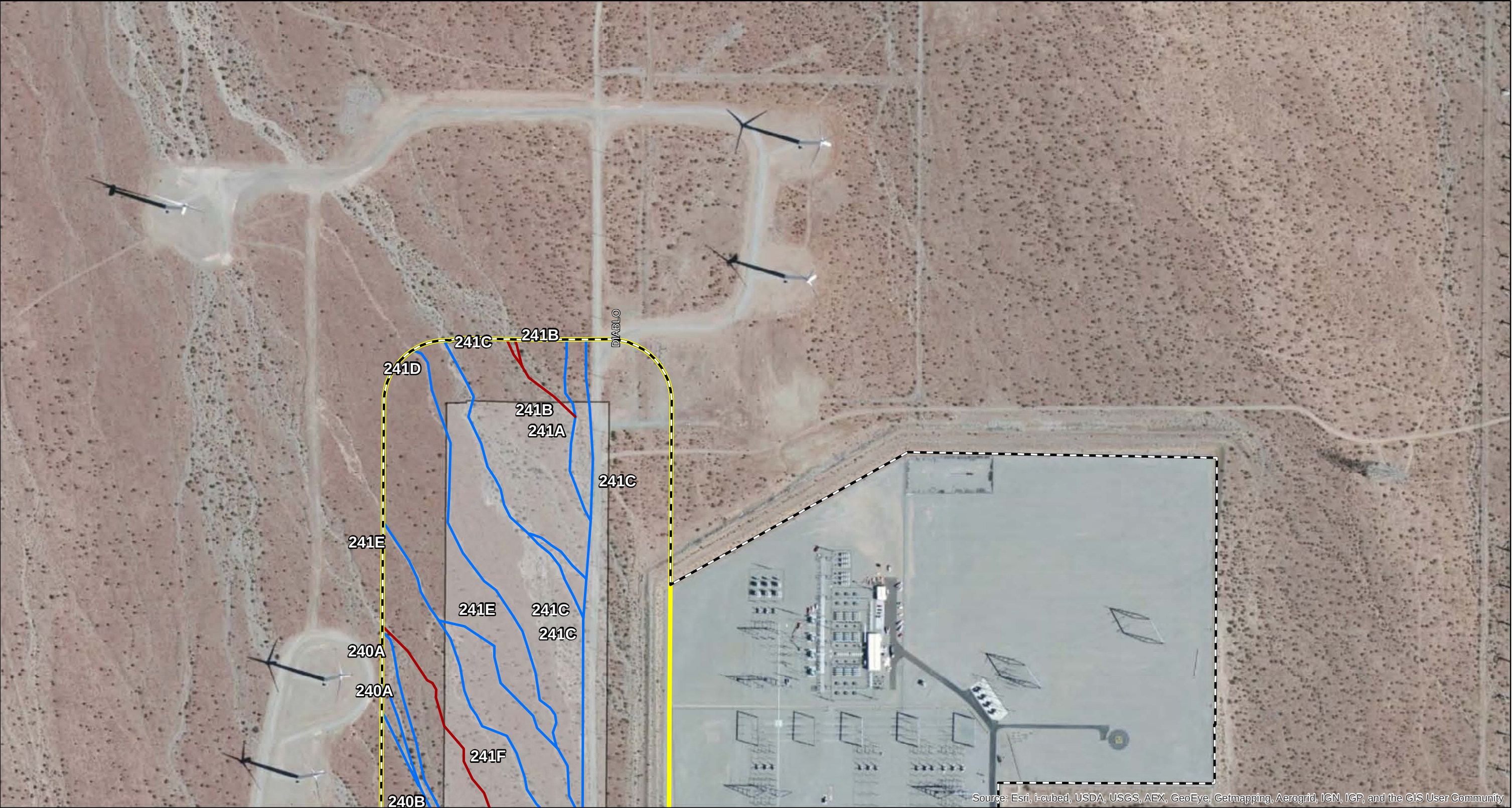


FIGURE 2
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LEGEND

	Project Study Area		Staging Yards		Potentially Jurisdictional Wetland Drainage - CDFW/USACE		Potentially Jurisdictional Wetland - CDFW/USACE
	Existing Right of Way		Existing Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE		Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
	WOD Existing Right of Way to be Removed		Proposed Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW		Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
	200 feet from Right of Way		Morongo Reservation		Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)		Potentially Jurisdictional Nonwetland Basin - CDFW
	Soil Pit ID				2012 Drainage labels		Open Water
					2013 Drainage labels		Ponding Features

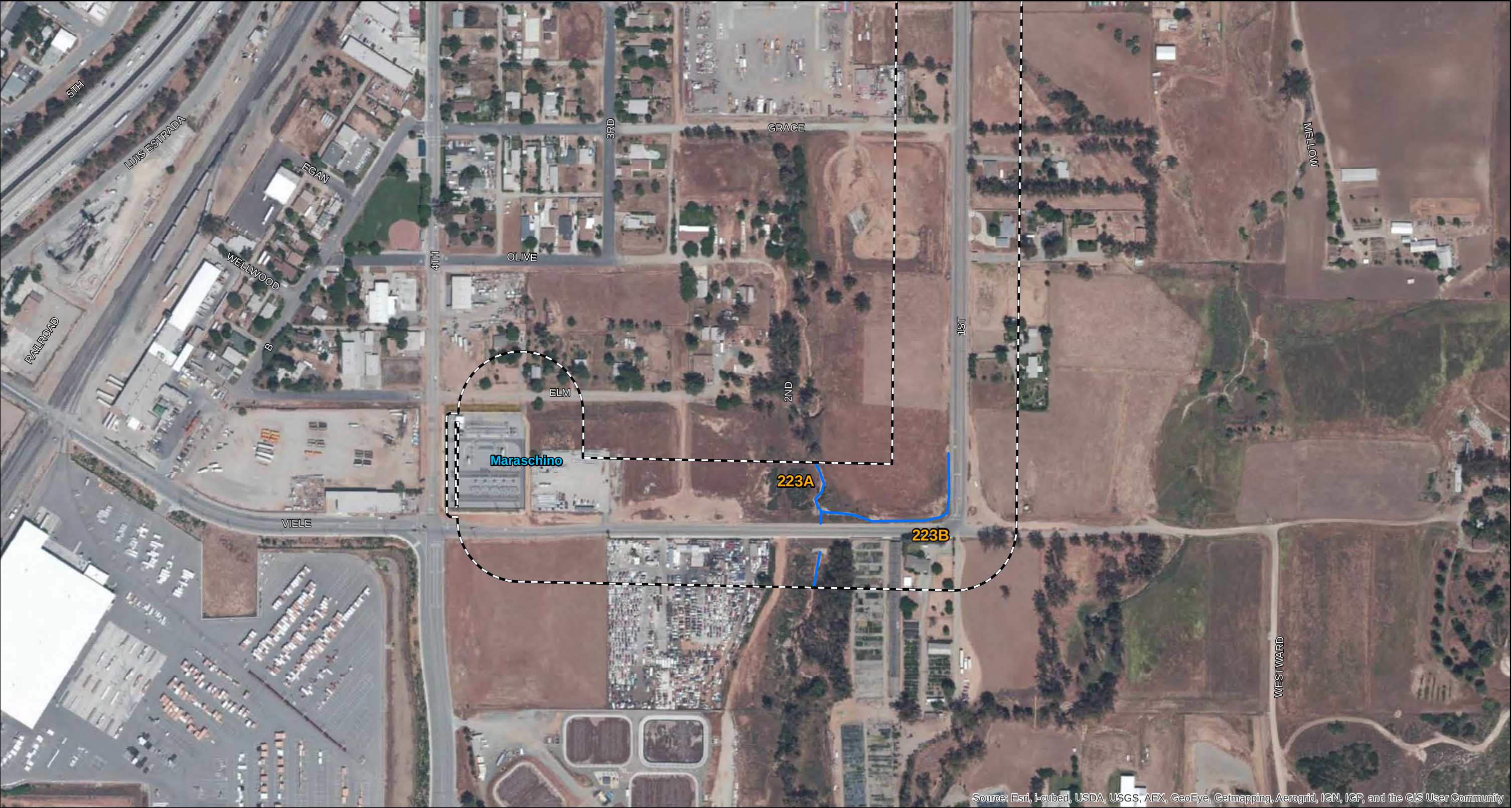
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FEET

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
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LEGEND

	Project Study Area		Staging Yards		Potentially Jurisdictional Wetland Drainage - CDFW/USACE		Potentially Jurisdictional Wetland - CDFW/USACE
	Existing Right of Way		Existing Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE		Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
	WOD Existing Right of Way to be Removed		Proposed Access Roads		Potentially Jurisdictional Nonwetland Drainage - CDFW		Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
	200 feet from Right of Way		Morongo Reservation		Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)		Potentially Jurisdictional Nonwetland Basin - CDFW
	Soil Pit ID				2012 Drainage labels		Open Water
					2013 Drainage labels		Ponding Features

0 150 300
FEET

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
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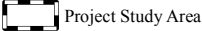
Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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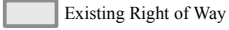




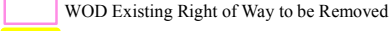
LEGEND



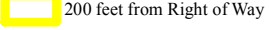
Project Study Area



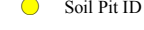
Existing Right of Way



WOD Existing Right of Way to be Removed



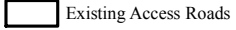
200 feet from Right of Way



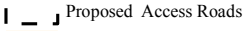
Soil Pit ID



Staging Yards



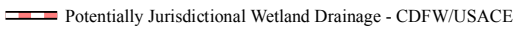
Existing Access Roads



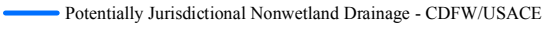
Proposed Access Roads



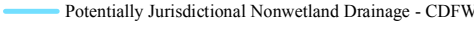
Morongo Reservation



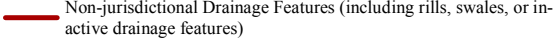
Potentially Jurisdictional Wetland Drainage - CDFW/USACE



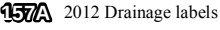
Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE



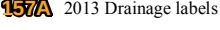
Potentially Jurisdictional Nonwetland Drainage - CDFW



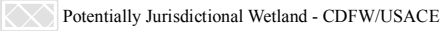
Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)



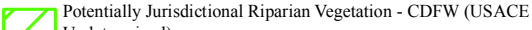
2012 Drainage labels



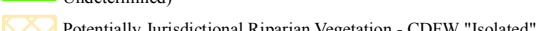
2013 Drainage labels



Potentially Jurisdictional Wetland - CDFW/USACE



Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)



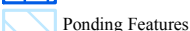
Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"



Potentially Jurisdictional Nonwetland Basin - CDFW



Open Water



Ponding Features

0 150 300
FEET

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

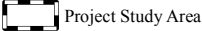
Proponent's Environmental Assessment
West of Devers Upgrade Project

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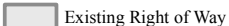




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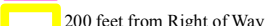
Project Study Area



Existing Right of Way



WOD Existing Right of Way to be Removed



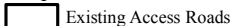
200 feet from Right of Way



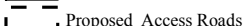
Soil Pit ID



Staging Yards



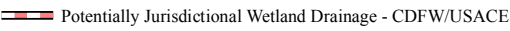
Existing Access Roads



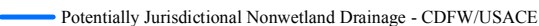
Proposed Access Roads



Morongo Reservation



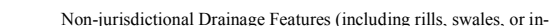
Potentially Jurisdictional Wetland Drainage - CDFW/USACE



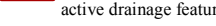
Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE



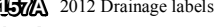
Potentially Jurisdictional Nonwetland Drainage - CDFW



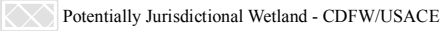
Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)



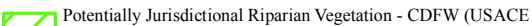
2012 Drainage labels



2013 Drainage labels



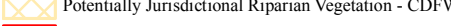
Potentially Jurisdictional Wetland - CDFW/USACE



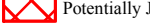
Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)



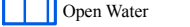
Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"



Potentially Jurisdictional Nonwetland Basin - CDFW



Open Water



Ponding Features

FIGURE 2
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SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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Proponent's Environmental Assessment
West of Devers Upgrade Project

Southern California Edison
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2012 and 2013 Drainage Assessment Results

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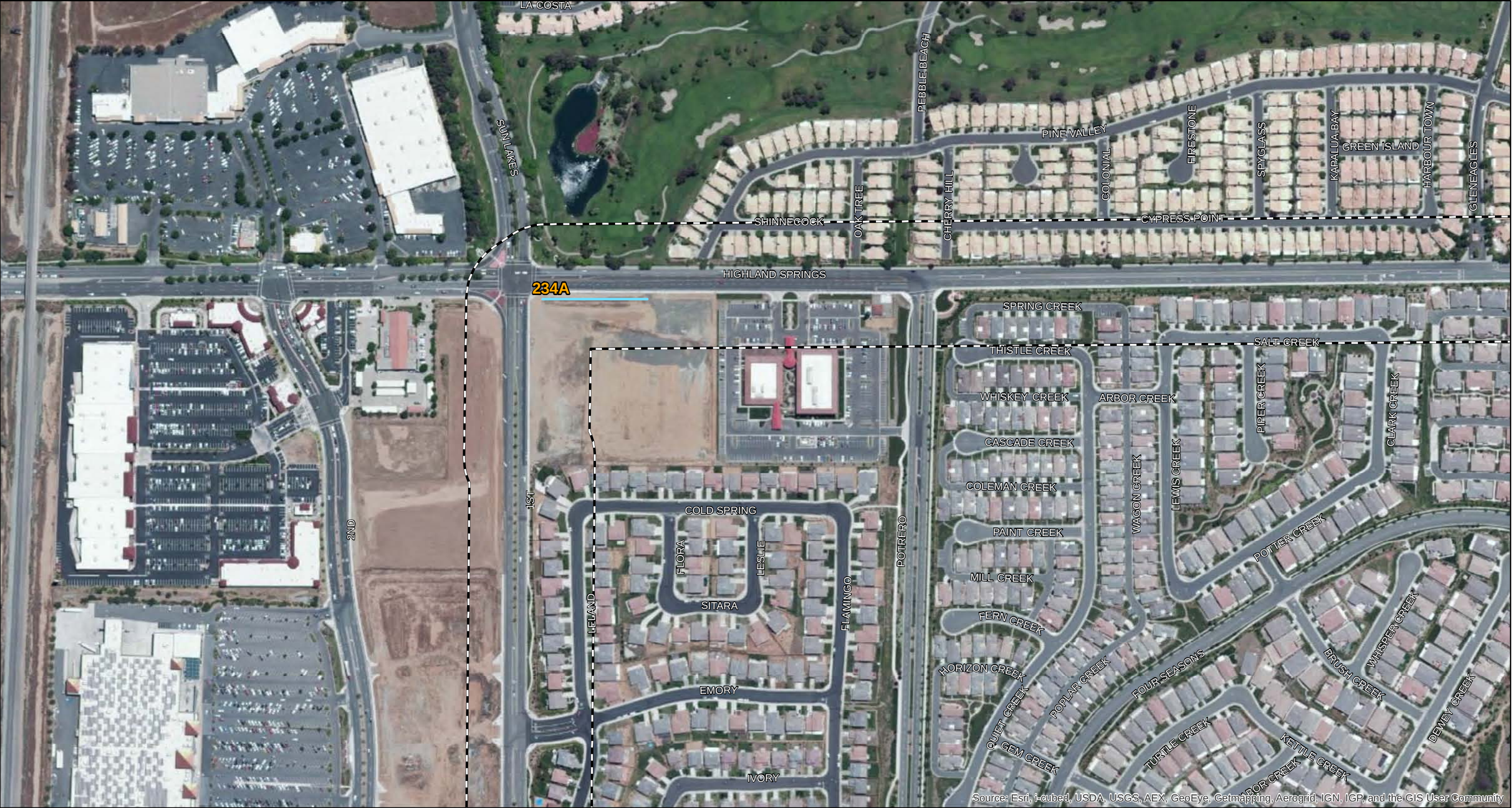
Source: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)
I:\SCE1110\GIS\MXD\Biology\JD_Drainages_2013.mxd (9/30/2013)

LEGEND

Project Study Area	Staging Yards	Potentially Jurisdictional Wetland Drainage - CDFW/USACE	Potentially Jurisdictional Wetland - CDFW/USACE
Existing Right of Way	Existing Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
WOD Existing Right of Way to be Removed	Proposed Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW	Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
200 feet from Right of Way	Morongo Reservation	Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	Potentially Jurisdictional Nonwetland Basin - CDFW
Soil Pit ID		2012 Drainage labels	Open Water
		2013 Drainage labels	Ponding Features

FIGURE 2
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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



LEGEND



Project Study Area



Existing Right of Way



WOD Existing Right of Way to be Removed



200 feet from Right of Way



Soil Pit ID



Staging Yards



Existing Access Roads



Proposed Access Roads



Morongo Reservation



Potentially Jurisdictional Wetland Drainage - CDFW/USACE



Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE



Potentially Jurisdictional Nonwetland Drainage - CDFW



Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)



2012 Drainage labels



2013 Drainage labels



Potentially Jurisdictional Wetland - CDFW/USACE



Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)



Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"



Potentially Jurisdictional Nonwetland Basin - CDFW



Open Water



Ponding Features

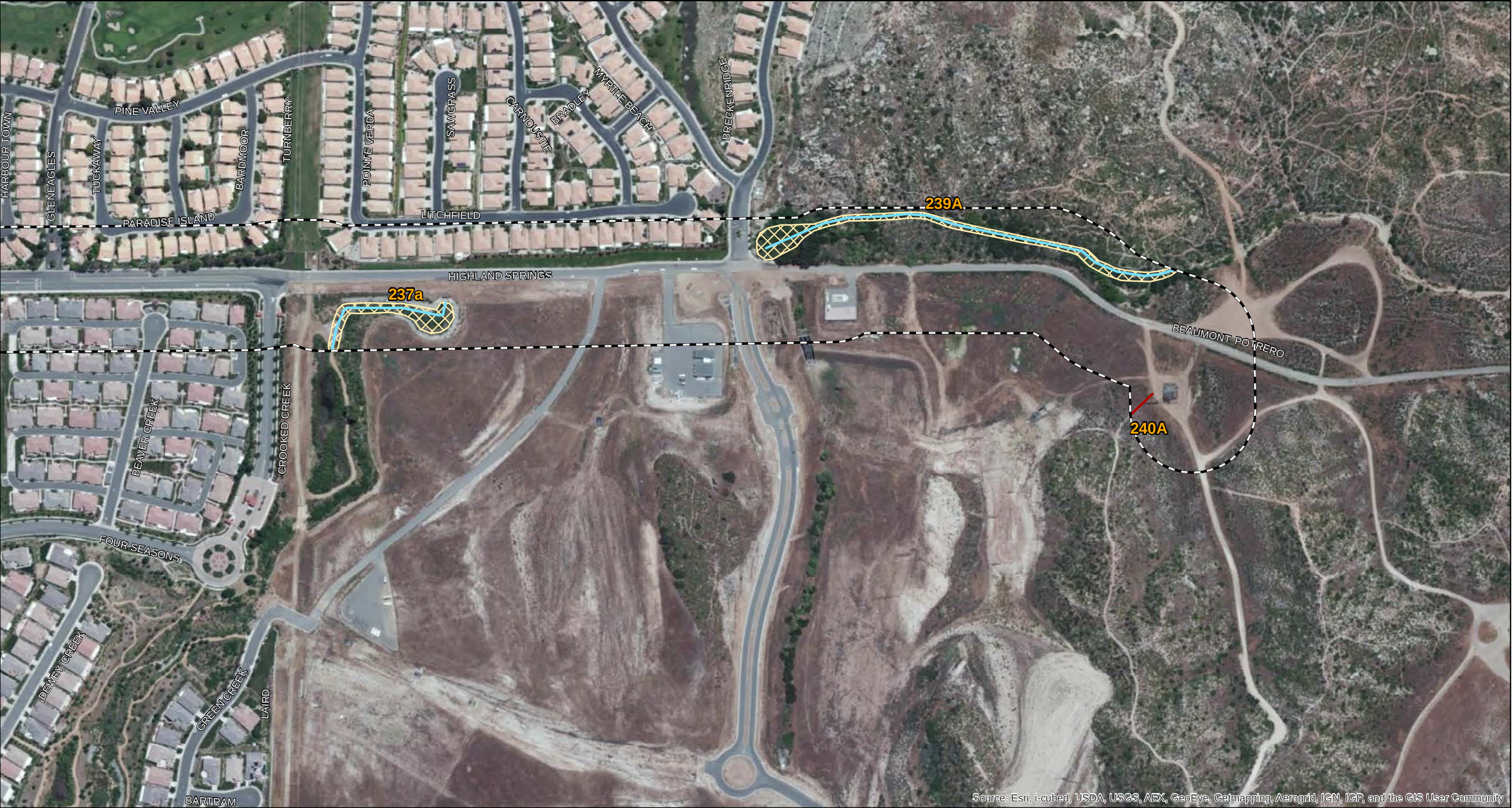
FIGURE 2
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Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)
I:\SCE1110\GIS\MXD\Biology\JD_Drainages_2013.mxd (9/30/2013)
Proponent's Environmental Assessment
West of Devers Upgrade Project

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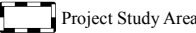
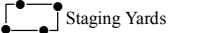
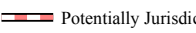
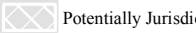
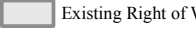
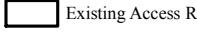
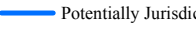
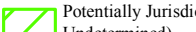
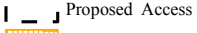
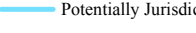
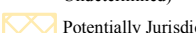
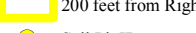
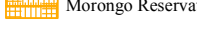
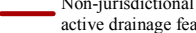
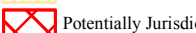
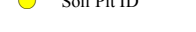
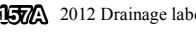
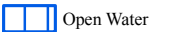
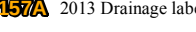
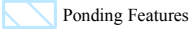


Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community



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LEGEND

 Project Study Area	 Staging Yards	 Potentially Jurisdictional Wetland Drainage - CDFW/USACE	 Potentially Jurisdictional Wetland - CDFW/USACE
 Existing Right of Way	 Existing Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	 Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
 WOD Existing Right of Way to be Removed	 Proposed Access Roads	 Potentially Jurisdictional Nonwetland Drainage - CDFW	 Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
 200 feet from Right of Way	 Morongo Reservation	 Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	 Potentially Jurisdictional Nonwetland Basin - CDFW
 Soil Pit ID		 2012 Drainage labels	 Open Water
		 2013 Drainage labels	 Ponding Features

0 150 300
FEET

Source: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

FIGURE 2
Sheet 105 of 108

Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Source: Esri, i-cubed, USDA, USGS, AEX, GeoEye, Getmapping, Aerogrid, IGN, IGP, and the GIS User Community

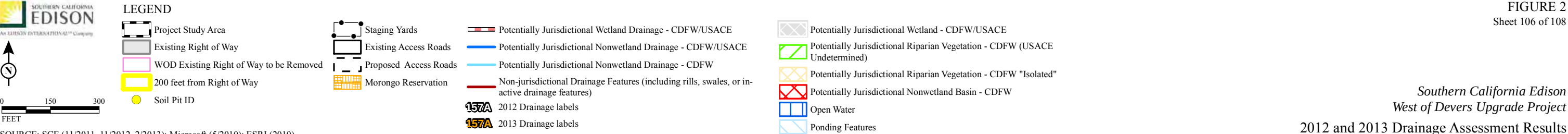
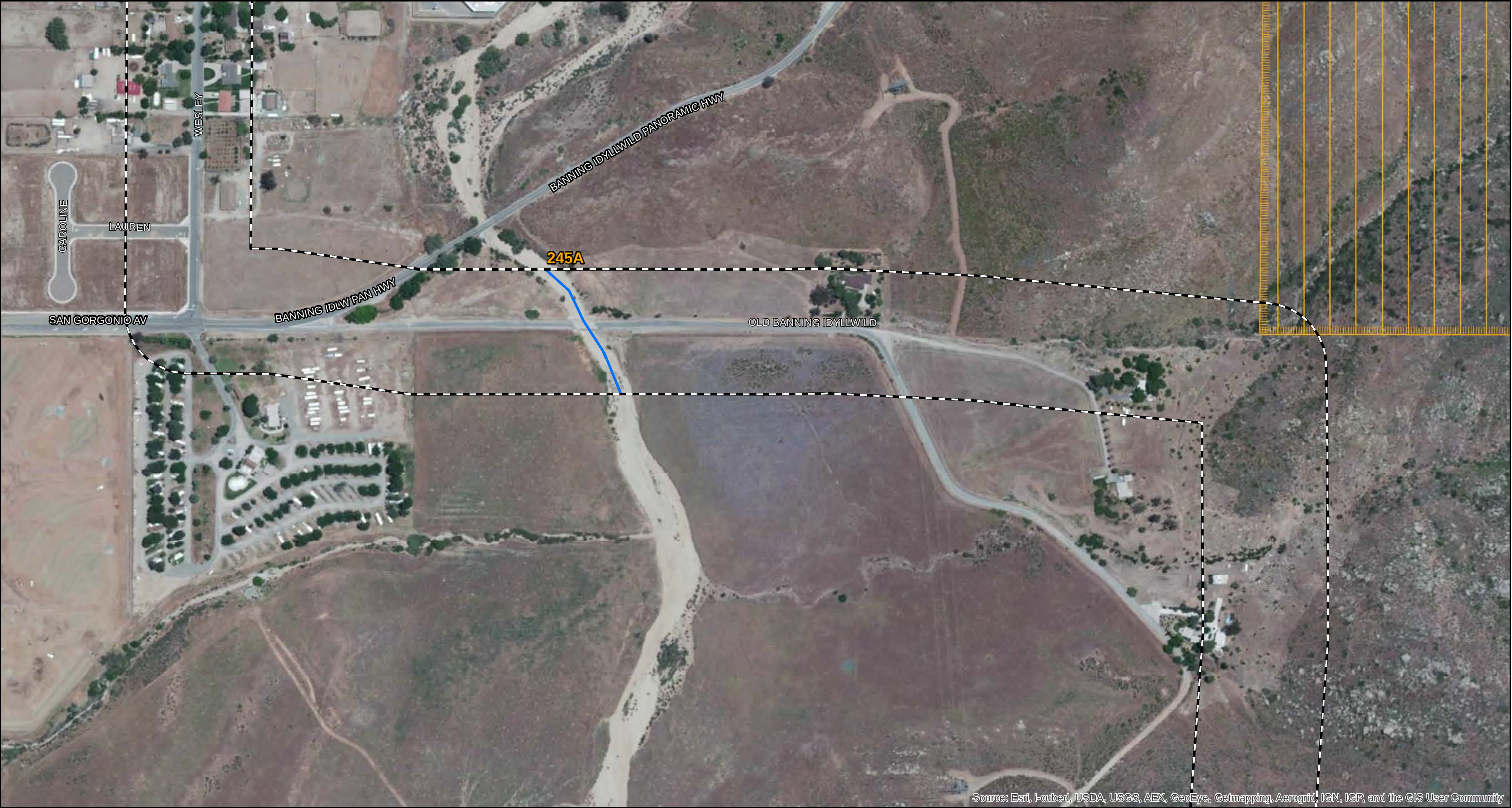


FIGURE 2
Sheet 106 of 108

Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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Project Study Area	Staging Yards	Potentially Jurisdictional Wetland Drainage - CDFW/USACE	Potentially Jurisdictional Wetland - CDFW/USACE
Existing Right of Way	Existing Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE	Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)
WOD Existing Right of Way to be Removed	Proposed Access Roads	Potentially Jurisdictional Nonwetland Drainage - CDFW	Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"
200 feet from Right of Way	Morongo Reservation	Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)	Potentially Jurisdictional Nonwetland Basin - CDFW
Soil Pit ID		2012 Drainage labels	Open Water
		2013 Drainage labels	Ponding Features



0 150 300
FEET

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
Sheet 107 of 108

Southern California Edison
West of Devers Upgrade Project
2012 and 2013 Drainage Assessment Results

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LEGEND



Project Study Area



Existing Right of Way



WOD Existing Right of Way to be Removed



200 feet from Right of Way



Soil Pit ID



Staging Yards



Existing Access Roads



Proposed Access Roads



Morongo Reservation



Potentially Jurisdictional Wetland Drainage - CDFW/USACE



Potentially Jurisdictional Nonwetland Drainage - CDFW/USACE



Potentially Jurisdictional Nonwetland Drainage - CDFW



Non-jurisdictional Drainage Features (including rills, swales, or inactive drainage features)



2012 Drainage labels



2013 Drainage labels



Potentially Jurisdictional Wetland - CDFW/USACE



Potentially Jurisdictional Riparian Vegetation - CDFW (USACE Undetermined)



Potentially Jurisdictional Riparian Vegetation - CDFW "Isolated"



Potentially Jurisdictional Nonwetland Basin - CDFW



Open Water



Ponding Features

SOURCE: SCE (11/2011, 11/2012, 2/2013); Microsoft (5/2010); ESRI (2010)

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FIGURE 2
Sheet 108 of 108

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Erosion rills are formed by overland water flows that erode the soil surface during rain events and rills may deepen into gullies. Both are typically formed on valley sides and floors where no well-defined channel previously existed. If these features lack a connection with a drainage they are called rills and are not jurisdictional.



A rill/gully is typically formed on valley sides and floors where no well-defined channel previously existed. If these features lack a connection with a drainage they are called rills/gullies and are not jurisdictional.



Potential access road in the San Timoteo Badlands showing erosion rills. Many rills are created by surface water flowing off of roads or trails, and over time these rills can erode said passageways. If these features lack a connection with a drainage they are called rills and are not jurisdictional.



Swales on rolling hills near the Vista Substation lack evidence of an OHWM and any occasional flows daylight into the flat field below.



Swales on rolling hills of the San Timoteo Badlands lack evidence of an OHWM and a connection to the potentially jurisdictional drainage below.



A swale at the bottom of rolling hills with no evidence of an OHWM.



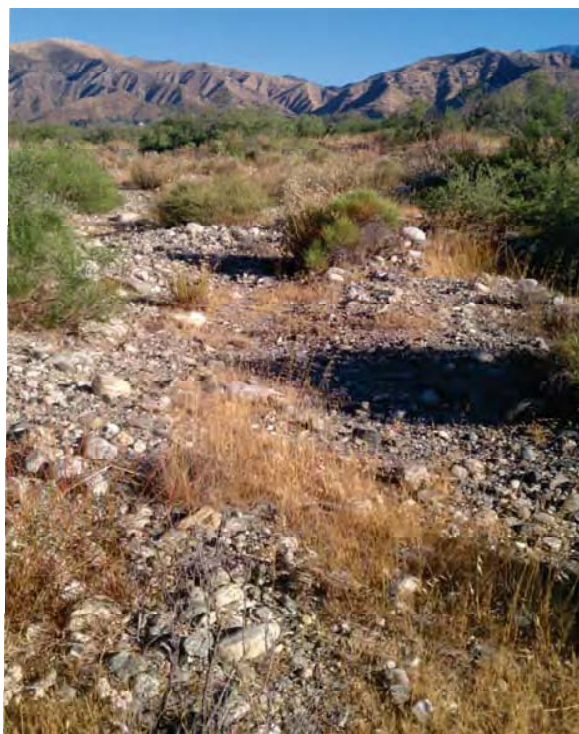
A desert swale with no clearly defined evidence of a measurable OHWM.



Swale showing slight evidence of change in particle size distribution, but not enough to measure a distinct OHWM line.



Swales on steep, rolling hills west of Whitewater River lack evidence of an OHWM in the sandy substrate.



Paleo channels in the low terrace portion of the floodplain at west edge of the Morongo Reservation. These features are now abandoned by water flows, but still have a channel-like formation.

FIGURE 3
Sheet 3 of 8



Roadside ditch near San Timoteo Creek that occasionally conveys flows and appears to have a connection to a drainage. This area is potentially CDFG, and Corps jurisdictional, but there is no riparian vegetation.



A rip rap channel in upland habitat lacking riparian vegetation is CDFG jurisdictional, but may potentially be Corps jurisdictional if there is a connection to a drainage with a nexus to a traditional navigable water.



Concrete v-ditch. These areas are often erosion control features excavated on dry land, with no value for fish and wildlife resources. As such they are usually not Corps or CDFG jurisdictional. If they replace a natural drainage or convey flow from one natural drainage to another they are likely CDFG jurisdictional and, Corps jurisdictional, if they connect to a drainage with a connection to a traditional navigable water.



Concrete and rip rap channel. These areas may have Corps jurisdiction if they replace an historical drainage and if they connect to a drainage with a connection to a traditional navigable water.



A desert drainage showing change in particle size distribution indicating the channel width and clear edge of the OHWM.



Roadside wash that conveys flows with evidence of gravel sheets (sand ridges) below the OHWM.



A typical ephemeral low-flow channel showing the upper limits of sand-sized particles near/at the OHWM.



Ephemeral channel showing change in particle size and lack of vegetation at/below the OHWM.



Ephemeral active channel shows lack of vegetation at/below the OHWM. There was evidence of a low-flow channel in the bottom.

FIGURE 3
Sheet 5 of 8



Ephemeral high-flow channel shows lack of vegetation at/below the OWHM.



Reche Canyon, a trapezoidal earthen and rip rap channel east of the City of Grand Terrace that is potentially jurisdictional for CDFG and Corps.



San Timoteo Creek flows perennially northwest. This channel is both potentially a CDFG and Corps jurisdictional wetland.



Ephemeral channel showing change in particle size and benches above the OWHM in the hills west of Whitewater Canyon.



Ephemeral channel showing change in particle size near the OWHM and benches above the OWHM.



Ephemeral channel with clear evidence of change in particle size distribution, benches, and exposed roots. This drainage is both potentially CDFG and Corps jurisdictional.



Super Creek shows evidence of change in particle size distribution, benches, and exposed roots. This drainage is both potentially CDFG and Corps jurisdictional.



Perennial spring on Morongo Reservation flowing across road. This channel is potentially subject to CDFG jurisdiction and daylights into the desert floor.



Whitewater River with San Jacinto Mountain in the background. This channel is potentially CDFG and Corps jurisdictional and is ultimately tributary to the Salton Sea.



Riparian vegetation associated with San Timoteo Creek generally determines the maximum potential CDFG jurisdictional area.



Spring on Morongo Reservation has some associated riparian vegetation.



Representative riparian vegetation showing willows, blue elderberry (formerly Mexican elderberry), and annual riparian species (*Juncus* sp., *Rumex* sp., rabbitfoot grass).



Emergent riparian vegetation (*Tamarix* sp., willow, mulefat) in a basin in the City of Calimesa.

APPENDIX B
TABLES B AND C

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Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWL Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
1A	7/12/2012	33I	San Bernardino	470684	3766881	N/A	no	no	no	no	swale	N	N/A	<2	<2		2:1	80	ephemeral		no	
2A	7/12/2012	33I	San Bernardino	470717	3766889	N/A	no	no	no	no	swale	N	N/A	<2	<2		2:1	80	ephemeral		no	
5A	7/12/2012	0690, 0691G	San Bernardino	471871	3767164	N/A	no	no	no	yes		N	OHWL, vegetation	10	75	<1	1:1	80	ephemeral	riparian veg: cottonwoods, mule fat, elderberry	yes	more historic larger bank width. Drainage ends at parking lot.
5B	6/11/2012	0502G	San Bernardino	471774	3767188	N/A	no	no	no	yes		N	OHWL	3--4	3--4	<1	2:1	100	ephemeral		no	scrub; channel terminates at road
6A	6/11/2012		San Bernardino	471979	3767349	Santa Ana River	yes	yes	no	yes		N, M	OHWL, vegetation	3	3	2	2:1	10	ephemeral	riparian veg: arundo, mule fat	yes	LF:1 ft; concrete apron, 36-inch concrete culvert
6B	6/11/2012	003I, 0692G	San Bernardino	471988	3767150	N/A	no	no	no	yes		N	OHWL	2	2	<1	1:1	40	ephemeral	ruderal, scrub	no	LF:1 ft
6C	6/11/2012	004I	San Bernardino	472223	3767183	Santa Ana River	yes	yes	no	yes		A	OHWL	1--2	1--2	2	3:1	10	ephemeral	ruderal/concrete	no	earthen then concrete channel; runs east to west; continuation of 7A
6D	6/11/2012	005I	San Bernardino	472135	3767149	Santa Ana River	yes	yes	no	yes		N	OHWL	1	1	<1	1:1	80	ephemeral	ruderal	no	continuation of 7A & 6C perpendicular to right-of-way; intermittent concrete channel
6E	6/11/2012	006I	San Bernardino	472106	3767117	Santa Ana River	yes	yes	no	yes		N	OHWL	10	10		1:1	100	ephemeral		no	LF:41 ft (continuation from road); continuation of 7A & 6C off shoot
6F	6/11/2012		San Bernardino	472101	3767144	N/A	no	no	no	no	swale	N	N/A	1	1		3:1	80	ephemeral	ruderal	no	from dirt road
7A	6/11/2012	0693, 0694G	San Bernardino	472306	3767106	Santa Ana River	yes	yes	yes	yes		M, A	OHWL, vegetation	5	7	2	2:1	10	ephemeral	riparian veg: willows	yes	6 ft trapezoidal channel that collects road run-off; ends at access road; water daylights
7B	6/11/2012	0503, 0695, 0696G	San Bernardino	472354	3767123	N/A	yes	yes	no	yes		N, M	OHWL	1	1	<1	0:1	10	ephemeral	ruderal	no	box culvert at north end, roadside ditch that terminates into crossroad corrugated pipe that flows west at midpoint; mustard plant
7C	6/11/2012		San Bernardino	472391	3766857	N/A	yes	yes	yes	yes		N	OHWL	6	40	1	3:1	10	ephemeral	riparian veg: willows; peppertrees	yes	
7D	8/31/2012		San Bernardino	472574	3766919	N/A	no	no	no	no	swale	N	N/A						ephemeral	Scrub	no	
8A	8/31/2012		San Bernardino	472547	3766956	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
8B	6/11/2012		San Bernardino	472682	3766848	N/A	no	no	no	yes		N	OHWL	5	5	<1	2:1	80	ephemeral	scrub	no	LF:<1 ft deep, 5-20 ft wide; scour
8C	6/11/2012		San Bernardino	472768	3766824	N/A	no	no	no	yes		N	OHWL	2	2	<1	2:1	80	ephemeral	scrub	no	swale southern portion
8D	6/11/2012		San Bernardino	472901	3766644	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
8E	4/24/2012		San Bernardino	472918	3766631	N/A	no	no	no	yes		N	OHWL	3--8	3--8	<1	2:1	70	ephemeral	ruderal	no	
9A	6/11/2012		San Bernardino	473137	3766794	N/A	no	no	no	no	swale	N	N/A					80	ephemeral	ruderal	no	
9B	6/11/2012		San Bernardino	473139	3766831	N/A	no	no	no	no	swale	N	N/A					80	ephemeral	ruderal	no	
9C	6/11/2012		San Bernardino	473068	3766887	N/A	no	no	no	no	swale	N	N/A					80	ephemeral	ruderal	no	
9D	4/24/2012		San Bernardino	472978	3766711	N/A	no	no	no	no	rill	N	N/A					80	ephemeral	ruderal	no	metal road diverter
9E	4/24/2012	0508G	San Bernardino	472991	3766685	N/A	no	no	no	no	rill	N	N/A	1	1		3:1	80	ephemeral	ruderal	no	

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHW Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
9F	4/24/2012		San Bernardino	473006	3766663	N/A	no	no	no	no	rill	N	N/A	1	1		1:1	80	ephemeral	ruderal	no	
9G	4/24/2012		San Bernardino	473017	3766638	N/A	no	no	no	no	rill	N	N/A	<2	<2		0:1	80	ephemeral	ruderal	no	metal road diverter
9H	8/30/2012		San Bernardino	472877	3766806	N/A	no	no	no	yes		N	OHW	4--8	4--8	<1	2:1	<10	ephemeral	ruderal	no	terminates into a roadside ditch
10A	4/24/2012		San Bernardino	473276	3766586	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
10B	6/11/2012		San Bernardino	473041	3766828	N/A	no	no	no	yes		N	OHW	5--20	5--20	<1	2:1	20	ephemeral	ruderal	no	LF:1-2
11A	4/24/2012	0470G	San Bernardino	473616	3766616	Santa Ana River	yes	yes	no	yes		M	OHW, channel	14	14	2	1:1	10	ephemeral	lack veg	no	Reche Canyon, LF:3
12A	4/24/2012	0468G	San Bernardino	473937	3766475	N/A	no	no	no	yes		N	OHW	8	18	1	1:1	10	ephemeral	scrub	no	LF:3
12B	4/24/2012		San Bernardino	474021	3766623	Santa Ana River	yes	yes	yes	yes		N, M	OHW, vegetation	5	25	<2	1:1	10	perennial	riparian veg: cottonwood, willows, <i>Scirpus</i>	yes	LF: 2 deep; culvert inlet; no access; standing water;
13A	6/11/2012		San Bernardino	474280	3766516	N/A	no	no	no	yes		N	OHW	1	1	<1	0:1	70	ephemeral	ruderal	no	LF:1; small from landslide, terminates at junk yard
13B	6/11/2012		San Bernardino	474375	3766561	Santa Ana River	yes	yes	no	yes		A	OHW, channel	2	2	<1	2:1	40	ephemeral	ruderal	no	3 ft concrete V-ditch
14A	6/11/2012	0465G	San Bernardino	474467	3766172	N/A	no	no	no	yes		N	OHW	2	2	1	2:1	10	ephemeral	ruderal	no	swale eastern portion; LF:1
14B	6/11/2012	0466G	San Bernardino	474355	3766300	N/A	no	no	no	yes		N	OHW	2	2	<1	3:1	40	ephemeral	ruderal	no	LF:2
14C	6/11/2012		San Bernardino	474390	3766284	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	scour no bed
14D	6/11/2012		San Bernardino	474483	3766207	N/A	no	no	no	yes		N	OHW	1	1	<1	3:1	40	ephemeral	ruderal	no	
14E	6/11/2012		San Bernardino	474518	3766191	N/A	no	no	no	yes		N	OHW	1	1	<1	3:1	40	ephemeral	ruderal	no	north portion swale
14F	6/11/2012		San Bernardino	474520	3766323	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
14G	6/11/2012		San Bernardino	474582	3766258	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
15A	6/11/2012	015I	San Bernardino	474585	3766125	N/A	no	no	no	yes		N	OHW	1	1	<1	2:1	20	ephemeral	ruderal	no	
15B	6/11/2012	014I	San Bernardino	474564	3766130	N/A	no	no	no	yes		N	OHW	2	2	<1	2:1	20	ephemeral	ruderal	no	
15C	6/11/2012	0510G	San Bernardino	474617	3766108	N/A	no	no	no	yes		N	OHW	1	1	<1	2:1	20	ephemeral	ruderal	no	landslide channels
15D	6/11/2012	017I	San Bernardino	474752	3765978	N/A	no	no	no	no	rill	N, M	OHW	2	2		2:1	80	ephemeral	ruderal	no	metal diverter, scour
15E	6/11/2012		San Bernardino	474578	3765972	N/A	no	no	no	yes		N	OHW	1	1	<1	4:1	100	ephemeral	ruderal	no	
15F	6/11/2012	18I	San Bernardino	474864	3765991	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	<1	0:1	80	ephemeral	scrub	no	metal drain
15G	6/11/2012		San Bernardino	474833	3766075	Santa Ana River	yes	no	yes	yes		M	OHW, vegetation	30	40	3	3:1	10	ephemeral	riparian veg: willows, mulefat	yes	estimated; fenced concrete channel; outflow channel ~10 ft wide
15H	6/11/2012		San Bernardino	474687	3766150	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
15I	6/11/2012		San Bernardino	474696	3766124	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
15J	6/11/2012		San Bernardino	474726	3766069	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
16A	6/11/2012		San Bernardino	475206	3766064	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
16B	6/11/2012	19I	San Bernardino	475169	3766113	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
16C	6/11/2012	0512G	San Bernardino	475538	3766140	N/A	no	no	no	yes		N	OHW	4	4	<1	1:1	40	ephemeral	ruderal	no	LF:1
16D	6/11/2012	0464G	San Bernardino	474986	3765950	Santa Ana River	yes	yes	yes	yes		N	OHW	10--55	10--55	1	2:1	10	ephemeral	scrub	no	LF:1 (braided low flows)
17A	6/11/2012	20, 21, 26I	San Bernardino	475488	3766256	N/A	no	no	no	yes		N	OHW	2--6	2--6	<1	1:1	20--60	ephemeral	ruderal	no	LF:1-2 ft
17B	6/11/2012	0513G	San Bernardino	475617	3766115	N/A	no	no	no	yes		N	OHW	12--15	12--15	<1	3:1	20	ephemeral	ruderal	no	estimated
17C	6/11/2012	0514G	San Bernardino	475600	3765995	N/A	no	no	no	yes		N	OHW	1	1	<1	1:1	90	ephemeral	ruderal	no	MAC drain
17D	6/11/2012	0515G	San Bernardino	475660	3766120	N/A	no	no	no	yes		N	OHW	3	3	<1	2:1	60	ephemeral	ruderal	no	
17E	6/11/2012	0516G	San Bernardino	475649	3766311	Santa Ana	yes	yes	no	yes		N	OHW	2	2	<1	2:1	80	ephemeral	scrub	no	runoff from road

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
17F	6/11/2012	25I	San Bernardino	475672	3766322	River Santa Ana River	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	60	ephemeral	scrub	no	
17G	6/11/2012	24I	San Bernardino	475697	3766327	Santa Ana River	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	60	ephemeral	scrub	no	
17H	6/11/2012		San Bernardino	475700	3766357	Santa Ana River	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	60	ephemeral	scrub	no	
17I	6/11/2012	24, 25I	San Bernardino	475688	3766394	Santa Ana River	yes	yes	no	yes		N	OHWM	4	4	<1	1:1	40	ephemeral	scrub	no	main drainage of 17 D, E, G, H
17J	6/11/2012	0517G	San Bernardino	475518	3766450	Santa Ana River	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	80	ephemeral	ruderal	no	estimated
17K	6/11/2012		San Bernardino	475627	3766364	Santa Ana River	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
17L	6/11/2012		San Bernardino	475712	3766396	Santa Ana River	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
17M	6/11/2012		San Bernardino	475632	3766040	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
17N	6/11/2012		San Bernardino	475789	3766211	N/A	no	no	no	yes		N	OHWM	2	2	<1	1:1	100	ephemeral	ruderal	no	composed of multiple-like drainages that flow into single drainage outside limits
18A	6/11/2012	0518G	San Bernardino	475791	3766408	Santa Ana River	yes	yes	no	yes		N	OHWM	1	1	<1	1:1	40	ephemeral	ruderal, chaparral, scrub	no	estimated
18B	6/11/2012		San Bernardino	475857	3766222	Santa Ana River	yes	yes	no	yes		N	OHWM	2--5	2--15	<1	2:1	20	ephemeral	ruderal, chaparral, scrub	no	LF:<1; composed of multiple converging drainages
18C	6/13/2012	0525G	San Bernardino	475943	3766390	Santa Ana River	yes	yes	no	yes		N	OHWM	1--2	1--2	<1	1:1	20--80	ephemeral	ruderal, tree tobacco	no	LF:1, composed of multiple converging drainages; old access roads at mouth of drainage; terminates as 8 ft swale
19A	6/11/2012		San Bernardino	476190	3766378	Santa Ana River	yes	yes	no	yes		N	OHWM	5	5	<1	2:1	40	ephemeral	ruderal	no	LF:1
19B	6/11/2012	0522G	San Bernardino	476201	3766222	Santa Ana River	yes	yes	no	yes		N	OHWM	3	5	<1	2:1	80	ephemeral	chaparral, scrub	no	LF:2
19C	6/11/2012	0523G	San Bernardino	476240	3766298	Santa Ana River	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	60	ephemeral	ruderal	no	LF:1
19D	6/11/2012	32-33I	San Bernardino	476087	3766426	Santa Ana River	yes	yes	no	yes		N	OHWM	12	12	4	2:1	10	ephemeral	elderberry, scrub	no	LF:1
19E	6/11/2012	I31	San Bernardino	476150	3766269	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:1	40	ephemeral	chaparral, ruderal	no	
19F	6/11/2012		San Bernardino	476191	3766331	Santa Ana River	yes	yes	no	yes		N	OHWM	10	10	<1	1:1	10	ephemeral	ruderal	no	drainage becomes dirt road
19G	6/13/2012	0526G	San Bernardino	476266	3766257	Santa Ana River	yes	yes	no	yes		N	OHWM	2--3	2--3	<1	2:1	20	ephemeral	ruderal	no	LF:1, poison oak estimated last 1/2 of drainage
19H	6/13/2012	0527G	San Bernardino	476231	3766163	Santa Ana River	yes	yes	no	yes		N	OHWM	2--5	15	1	2:1	20	ephemeral	chaparral, ruderal	no	LF:1, avg width 4 ft; Incised in parts
19I	6/13/2012	0528G	San Bernardino	476288	3766203	Santa Ana River	yes	yes	no	yes		N	OHWM	2	2	1	2:1	40	ephemeral	ruderal	no	LF:1, top portion swale
19J	6/13/2012	0529G	San Bernardino	476347	3766170	Santa Ana River	yes	yes	no	yes		N	OHWM	1--2	1--2	<1	1:1	40	ephemeral	ruderal	no	LF:1, narrow - estimated top half, quickly steepens

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Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N= natural, A= artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWL Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
																						into a gully; drainage begins at buffer
19K	6/13/2012	0531G	San Bernardino	476471	3766135	Santa Ana River	yes	yes	no	yes		N	OHWL	2	4	<1	1:1	60	ephemeral	ruderal	no	LF:1
19L	6/13/2012	0530G	San Bernardino	476431	3766143	Santa Ana River	yes	yes	no	yes		N	OHWL	1	1	<1	2:1	100	ephemeral	ruderal	no	LF: .5, swale leads into drainage out of buffer area, OHWL at buffer boundary near road
19M	6/13/2012	0532G	San Bernardino	476463	3766316	N/A	no	no	no	yes		N	OHWL	1--2	1--2	<1	2:1	20--40	ephemeral	chaparral, ruderal	no	LF:1-2, estimated from top of hill
19N	6/11/2012	0519G, 030I	San Bernardino	476045	3766218	Santa Ana River	yes	yes	no	yes		N	OHWL	1--3	1--3	<1	2:1	20	ephemeral	chaparral, scrub	no	LF:1; B:B 25 ft wide and 20 ft deep
19O	6/11/2012		San Bernardino	476009	3766184	N/A	no	no	no	no	swale	N							ephemeral	ruderal	no	
19P	6/11/2012		San Bernardino	476070	3766324	Santa Ana River	yes	yes	no	yes		N	OHWL	12--65	12--65	1	3:1	20	ephemeral	chaparral	no	
20A	6/13/2012	0533G	San Bernardino	476636	3766244	N/A	no	no	no	yes		N	OHWL	1--3	1--3	<1	2:1	20	ephemeral	ruderal, chaparral	no	LF:<1, estimated from top of hill, averaged widths
20B	6/13/2012	0534G	San Bernardino	476683	3766311	N/A	no	no	no	yes		N	OHWL	1--10	1--10	<1	2:1	20	ephemeral	chaparral	no	LF:1, estimated from top of hill; Side drainage 1 ft w.
20C	6/13/2012	0535G	San Bernardino	476813	3766272	N/A	no	no	no	yes		N	OHWL	2--3	2--3	<1	2:1	20	ephemeral	chaparral	no	LF: .5, estimated from top of hill
20D	6/13/2012	0563G	San Bernardino	476837	3766248	N/A	no	no	no	yes		N	OHWL	8	8	<1	2:1	60	ephemeral	chaparral	no	LF:1-2, estimated from top of hill
20E	6/13/2012	0537G	San Bernardino	476909	3766302	N/A	no	no	no	yes		N	OHWL	4--5	4--5	<1	2:1	40	ephemeral	chaparral	no	LF:1-2, estimated from top of hill, grading work pushed soil into drainage
21A	6/13/2012	0538G	San Bernardino	476923	3766141	N/A	no	no	no	yes		N	OHWL	1--2	1--2	<1	0:1	20	ephemeral	chaparral, ruderal	no	LF:1-2, estimated from top of hill, incised channel
21B	6/13/2012	0539G	San Bernardino	477119	3766115	N/A	no	no	no	yes		N	OHWL	10	10	<1	1:1	40	ephemeral	ruderal	no	LF:1-2, estimated from top of hill, averaged widths
21C	6/13/2012	0540G	San Bernardino	477220	3766079	N/A	no	no	no	yes		N	OHWL	2--3	2--3	<1	2:1	40	ephemeral	ruderal, chaparral	no	LF:1, estimated from top of hill, existing tower is on ridge between drainage sections
21D	6/13/2012		San Bernardino	477176	3766168	N/A	no	no	no		swale	N	N/A						ephemeral	scrub, chaparral	no	
21E	6/13/2012		San Bernardino	477021	3765999	N/A	no	no	no	yes		N	OHWL	7	7	<1	0:1	20	ephemeral	chaparral, ruderal	no	LF:1-2, estimated from top of hill, averaged widths
22A	6/13/2012	0542G, 0545 - 0547G	San Bernardino	477284	3765992	San Timoteo Creek	yes	yes	no	yes		N	OHWL	5--8, 50--250	5--8, 50--250	<1	1:1	40	ephemeral	chaparral	no	LF:1 ft; incised flat braided low flows are intermittent throughout drainage; north end branches are 5-8 ft wide while rest is 50-250 ft wide; metal culverts at top of ridge
22B	6/13/2012	1E	San Bernardino	477406	3765888	San Timoteo	yes	yes	no	yes		N	OHWL	1	3	<1	2:1	20	ephemeral	ruderal	no	LF:0

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22C	6/13/2012	2E, 0548G	San Bernardino	477420	3765809	Creek San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	6	<1	2:1	10	ephemeral	ruderal, scrub	no	LF:1
22D	6/13/2012	0543, 0549, 0551G	San Bernardino	477486	3765935	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	6	<1	2:1	20	ephemeral	ruderal	no	LF:.5; drain and erosion above; averaged overall
23A	6/14/2012		San Bernardino	477609	3765707	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	80	ephemeral	ruderal	no	
23B	6/14/2012	0554G	San Bernardino	477523	3765794	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3--12	3--12	<2	2:1	70	ephemeral	scrub	no	LF:2
23C	6/13/2012		San Bernardino	477646	3765971	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6	6	<1	2:1	40	ephemeral	ruderal, scrub	no	
23D	6/13/2012	0552G	San Bernardino	477801	3765680	San Timoteo Creek	yes	yes	no	yes		N	OHWM	12	12	<1	2:1	40	ephemeral	scrub	no	LF:2
23E	6/14/2012	0544G, 0550G	San Bernardino	477702	3765820	San Timoteo Creek	yes	yes	no	yes		N	OHWM	4	4	<1	2:1	20	ephemeral	scrub, chaparral	no	LF:1 ft; estimated at top of drainage
23F	6/13/2012		San Bernardino	477938	3765590	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	2--3	<1	2:1	20	ephemeral	ruderal	no	portion a swale
23G	6/13/2012		San Bernardino	477965	3765816	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--7	10	1	0:1		ephemeral	ruderal	no	LF:1
23H	6/13/2012	0552G	San Bernardino	477872	3765635	San Timoteo Creek	yes	yes	no	yes		N	OHWM	12	12	1	2:1	40	ephemeral	scrub, ruderal	no	LF:2
23I	8/30/2012	0700G	San Bernardino	477896	3765953	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6	8	2	2:1	<10	ephemeral	chaparral, scrub, ruderal	no	portion through Grid 38 is a swale
23J	8/30/2012		San Bernardino	477942	3766025	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	60	ephemeral	ruderal	no	
23K	8/30/2012		San Bernardino	477926	3766063	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	20	ephemeral	ruderal	no	
23L	8/30/2012		San Bernardino	477898	3766092	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	20	ephemeral	ruderal	no	
23M	8/30/2012		San Bernardino	477853	3766070	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	80	ephemeral	ruderal	no	
24A	6/28/2012		San Bernardino	477934	3766342	N/A	no	no	no	yes		N	OHWM	2	2--3	<1	2:1	40	ephemeral	ruderal	no	LF:1, runs into ag land, OHV
27A	6/28/2012		San Bernardino	477872	3767436	San Timoteo Creek	yes	yes	no	yes		A	water, OHWM	1	9	4	2:1	<10	perennial	lack veg	no	man-made drainage but likely continually wet; riprap

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29A	6/28/2012		San Bernardino	477895	3767976	San Timoteo Creek	yes	yes	no	yes		A	water, OHWM	25	75	1	2:1	<10	perennial	lac veg	no	depth estimated; 4 ft active flow, concrete trapezoid channel
34A	6/28/2012		San Bernardino	477955	3769685	San Timoteo Creek	yes	yes	no	yes		A	OHWM, channel	50	80	2	2:1	<10	perennial	lack veg, water	no	Mission Channel, depth estimated, concrete trapezoid channel
34B	6/28/2012		San Bernardino	477954	3769520	San Timoteo Creek	yes	yes	no	yes		A	OHWM, channel	2	6	<1	2:1	<10	ephemeral	lacking veg	no	concrete trapezoid channel
38A	6/14/2012	0553G	San Bernardino	478193	3765581	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--5	2--5	<1	2:1	40	ephemeral	ruderal, chaparral	no	composed of multiple converging drainages; LF:1 ft; walked first half
39A	6/14/2012	0555G	San Bernardino	478633	3765256	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	40	ephemeral	ruderal, chaparral	no	braided LF:<1, wide canyon
39B	6/14/2012		San Bernardino	478498	3765499	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
39C	6/14/2012		San Bernardino	478400	3765352	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	
39D	6/14/2012		San Bernardino	478672	3765326	N/A	no	no	no	yes		N	OHWM	10	10	<1	4:1	40	ephemeral	ruderal	no	run-off from road; estimated using Google
39E	6/14/2012		San Bernardino	478447	37653500	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	70	ephemeral	chaparral, scrub	no	metal diverter on east branch; wide outflow; estimated using Google
40A	6/14/2012	0556G	San Bernardino	478768	3765103	San Timoteo Creek	yes	yes	no	yes		N	OHWM	4--20	4--20	2	0:1	20	ephemeral	ruderal, scrub	no	LF:1 ft; drainage becomes road
41A	6/14/2012		San Bernardino	479044	3765136	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
42A	6/14/2012	0557G	San Bernardino	479329	3764882	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
42B	6/14/2012	0558G	San Bernardino	479447	3764724	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
42C	6/14/2012		San Bernardino	479562	3764759	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
43A	6/14/2012		San Bernardino	479836	3764688	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
43B	6/14/2012		San Bernardino	479776	3764701	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
44A	6/14/2012		San Bernardino	480043	3764422	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	2--3	<1	0:1	<10	ephemeral	ruderal, scrub	no	swale like, swale in south, intermittent 1ft drainage
44B	6/14/2012		San Bernardino	480132	3764388	San Timoteo Creek	yes	yes	no	yes		N	OHWM, vegetation	2--3	2--3	<1	1:1	30	ephemeral	ruderal, scrub	no	
45A	8/30/2012	1453, 1454, 1459, 1460, 1467W	San Bernardino	480379	3764149	San Timoteo Creek	yes	yes	yes	yes		A	OHWM, vegetation	25	35	3	2:1	10	ephemeral	riparian veg: mule fat	yes	terraced man-made earthen channel with gabion drop structures from County landfill; eastern end is a basin
46A	6/14/2012		San Bernardino	480681	3763920	N/A	yes	yes	no	yes		N	OHWM	1	7	<1	2:01	0--10	ephemeral	ruderal, scrub	no	LF:1 ft; goes into v-ditch
46B	6/14/2012	0559G, 1461W, 954W	San Bernardino	480729	3763951	San Timoteo Creek	yes	yes	no	yes		N, M	OHWM	2--6	2--6	<1	2:1	0	ephemeral	ruderal, chaparral	no	west portion is a concrete V-ditch; side tributary
46C	8/30/2012	1462W, 1463G	San Bernardino	480838	3764031	San Timoteo Creek	yes	yes	no	yes		A	OHWM, vegetation	75	90	6	2:1	<10	perennial	riparian veg: mature willows, cottonwoods	yes	water in man-made basin; eastern half of wet area graded

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48A	6/14/2012	0560G	San Bernardino	481101	3763794	N/A	no	no	no	yes		N	OHWM	5--8	10--15	4	0:1	0--10	ephemeral	ruderal, scrub	no	LF:5-8; deep huge canyon, big deep low flow, wide in portions, estimated from top
48B	6/14/2012	0561G	San Bernardino	481223	3763719	N/A	no	no	no	yes		N	OHWM	10--20	10--20	<1	1:1	20	ephemeral	ruderal, scrub	no	sandy bottom, estimated from top
48C	6/14/2012		San Bernardino	481310	3763737	N/A	no	no	no	yes		N	OHWM	4--15	4--15	<1	1:1	20	ephemeral	ruderal, scrub	no	steep canyon sides obscured by regular wider canyon, estimated from top
48D	6/14/2012	0563G	San Bernardino	481377	3763684	N/A	no	no	no	yes		N	OHWM	5--20	5--20	<1	0:1	0--40	ephemeral	ruderal, scrub	no	estimated from top
48E	6/14/2012		San Bernardino	481304	3763761	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	roadside drainage from tower
49A	6/5/2012	0565G	San Bernardino	481598	3763517	N/A	no	no	no	yes		N	OHWM	20	10--30	<1	0:1	10--20	ephemeral	ruderal, scrub	no	LF:1-2, estimated from top
49B	6/5/2012		San Bernardino	481511	3763572	N/A	no	no	no	yes		N	OHWM	3--25	3--25	<1	2:1	10--20	ephemeral	ruderal, scrub	no	LF:1, estimated from top
49C	6/5/2012		San Bernardino	481410	3763586	N/A	no	no	no	yes		N	OHWM	3--10	3--10	<1	2:1	20	ephemeral	ruderal, scrub	no	
50A	6/5/2012	0564G	San Bernardino	481858	3763313	San Timoteo Creek	yes	yes	no	yes		N	OHWM	20--50	20--50	2	0:1	<10	ephemeral	ruderal, scrub	no	LF:1
52A	6/5/2012		San Bernardino	482318	3762904	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	5	1	0:1	<10	ephemeral	scrub	no	LF:1-2, primary proportion estimated from middle culvert
52B	6/5/2012		San Bernardino	482470	3762832	N/A	no	no	no	no	rills	N	N/A						ephemeral	ruderal, scrub	no	
52C	6/5/2012		San Bernardino	482464	3762801	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
52D	6/5/2012		San Bernardino	482638	3762923	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
53A	6/5/2012	0566G	San Bernardino, Riverside	482796	3762718	N/A	no	no	no	yes		N	OHWM	2--4	5--7	2	1:1 - 0:1	<10	ephemeral	ruderal, scrub	no	cement culvert 3 ft wide
53B	6/5/2012		San Bernardino	482813	3762771	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
54A	6/5/2012	0567G	San Bernardino	483002	3762690	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	10--40	ephemeral	ruderal, scrub	no	cannot see bottom
54B	6/5/2012	0568G	Riverside	482885	3762568	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	10--80	ephemeral	ruderal, scrub	no	no OHWM, roads intersect
54C	6/5/2012		San Bernardino, Riverside	483118	3762550	N/A	no	no	no	yes		N	OHWM	2--5	2--5	<1	2:1	10--40	ephemeral	ruderal, scrub	no	
54D	6/5/2012		Riverside	483045	3762497	N/A	no	no	no	yes		N	OHWM	<1	<1	<1	2:1	30	ephemeral	ruderal, scrub	no	
55A	6/5/2012		Riverside	483287	3762494	N/A	no	no	no	yes		N	OHWM	1--2	2--2	<1	2:1	20	ephemeral	ruderal, scrub	no	OHWM obscured by vegetation, estimated from top
55B	6/5/2012		Riverside	483462	3762390	N/A	no	no	no	yes		N	OHWM	2--3	2--3	<1	2:1	40	ephemeral	ruderal, scrub	no	LF:1
56A	6/5/2012		Riverside	483536	3762255	N/A	no	no	no	yes		N	OHWM	5	5	<1	2:1	10	ephemeral	ruderal, scrub	no	private park area with small bridges over drainage
56B	6/5/2012	0569G	Riverside	483793	3762185	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	no OHWM, does not reach the road; (graded)
57A	6/5/2012		Riverside	483975	3762117	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	40	ephemeral	ruderal, scrub	no	LF:1
57B	6/5/2012		Riverside	484070	3761995	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	30	ephemeral	ruderal, scrub	no	LF:1, small, from graded docking drainage

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N= natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
58A	6/5/2012	0570G	Riverside	484192	3761843	San Timoteo Creek	yes	yes	no	yes		N, M	OHWM	15--20	15--20	2	1:1	20	ephemeral	ruderal, scrub	no	roadside ditch and rip rap lined culvert
59A	6/5/2012	0571G	Riverside	484490	3761711	N/A	no	no	no	yes		N	OHWM	3--4	3--4	<1	2:1	60	ephemeral	ruderal, scrub	no	LF:1, empties into road with no OHWM
60A	6/5/2012		Riverside	484748	3761482	N/A	no	no	no	yes		N	OHWM	17--85	17--85	<1	5:1	10	ephemeral	ruderal, scrub	no	LF:1; ends in pasture private property, estimated from top/Google
62A	6/5/2012	0573G	Riverside	485399	3761168	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	30	ephemeral	ruderal, scrub	no	ends in private property
62B	6/5/2012	0572G	Riverside	485310	3761034	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	60	ephemeral	ruderal, scrub	no	narrow, ends in private property, estimated
62C	6/5/2012	0574G	Riverside	485552	3761082	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	2--3	<1	2:1	60	ephemeral	ruderal, scrub	no	estimated from top; assumed connectivity using Google
62D	6/5/2012	0575G	Riverside	485424	3760971	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3--5	3--10	<1	2:1	20	ephemeral	ruderal, scrub	no	
63A	6/5/2012	0576G	Riverside	485687	3760924	San Timoteo Creek	yes	yes	no	yes		N	OHWM, vegetation	13	15	1	1:1	10	ephemeral	riparian veg: willows, scrub	yes	
63B	6/5/2012	0577G	Riverside	485766	3760755	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:01	10	ephemeral	ruderal, scrub	no	goes into private property
64A	6/5/2012		Riverside	485942	3760715	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:1	20	ephemeral	ruderal, scrub	no	LF:0, estimated from top
64B	6/5/2012		Riverside	486029	3760709	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:1	20	ephemeral	ruderal, scrub	no	LF:0, estimated from top
64C	6/15/2012		Riverside	486070	3760730	N/A	no	no	no	yes		N	OHWM	1--2	1--2	<1	2:1	40	ephemeral	ruderal, scrub	no	LF:0
64D	8/30/2012		Riverside	486160	3760675	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
64E	8/30/2012		Riverside	486178	3760568	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
66A	8/30/2012		Riverside	486756	3760261	N/A	no	no	no	yes		N	OHWM	3	3	<1	2:1	40	ephemeral	ruderal, scrub	no	
66B	6/15/2012		Riverside	486574	3760402	N/A	no	no	no	yes		N	OHWM	2--3	2--3	<1	2:1	10	ephemeral	ruderal, scrub	no	
66C	6/15/2012		Riverside	486672	3760257	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:1	10	ephemeral	ruderal, scrub	no	LF:<1
67A	6/15/2012		Riverside	486847	3760241	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	3--5 ft
68A	6/15/2012	0973W	Riverside	487201	3760038	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	3 ft
68B	8/30/2012		Riverside	487398	3760006	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
68C	8/30/2012		Riverside	487137	3760072	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
69A	6/15/2012		Riverside	487686	3759904	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
70A	6/15/2012		Riverside	487882	3759925	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--20	4--30	1	0:1	10	ephemeral	ruderal, scrub	no	LF:2
71A	6/28/2012	0709G	Riverside	488360	3759728	N/A	no	no	no	yes		N	OHWM	6	6	<1	2:1	20	ephemeral	ruderal, scrub	no	
73A	6/28/2012		Riverside	488900	3759664	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
74A	6/28/2012	0639G	Riverside	489401	3759386	San Timoteo Creek	yes	yes	no	yes		N	OHWM	5	12	1	2:1	10	ephemeral	ruderal	no	LF:1; southern end is swale
77A	6/28/2012		Riverside	490303	3759065	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
78A	6/28/2012		Riverside	490557	3758894	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6	15	2	0:1	10	ephemeral	ruderal, scrub	no	LF:3; upland vegetation; rill branches off from northwest portion
80A	6/28/2012		Riverside	491130	3758542	N/A	no	no	no	no	rills	N	N/A						ephemeral	ruderal, scrub	no	4 erosion rills
81A	6/28/2012		Riverside	491676	3758446	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
81B	6/28/2012		Riverside	491451	3758369	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	

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81C	6/28/2012		Riverside	491529	3758460	N/A	no	no	no	no	rills	N	N/A						ephemeral	ruderal, scrub	no	3 erosion rills
82A	6/28/2012	0638G	Riverside	491960	3758385	N/A	no	no	no	yes		N	OHWL	3	3	<1	1:1	10	ephemeral	ruderal, scrub	no	LF:1, upland vegetation, channel starts at tower
82B	6/28/2012	0636G	Riverside	492047	3758256	San Timoteo Creek	yes	yes	no	yes		N	OHWL	2	20	1	2:1	10	ephemeral	ruderal, scrub	no	
83A	6/28/2012	0632G	Riverside	492316	3758481	N/A	no	no	no	yes		N	OHWL	1	8--25	<1	1:1	30	ephemeral	scrub	no	LF:1
84A	6/28/2012		Riverside	492419	3758525	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
84B	6/28/2012	0633G	Riverside	492535	3758505	N/A	no	no	no	yes		N	OHWL	1	1	<1	1:1	40	ephemeral	scrub	no	estimated from top
85A	7/12/2012	23I	Riverside	492865	3758668	San Timoteo Creek	yes	yes	yes	yes		N	OHWL, vegetation	50	90	4	<1:1	10	perennial	riparian veg: willows, cottonwoods	yes	San Timoteo Creek; LF:15 ft, side inlet/culvert; Soil Pits 9 and 10
85B	7/12/2012	20-22I	Riverside	492914	3758692	San Timoteo Creek	yes	no	yes	yes		M	OHWL, vegetation	10	22	1	3:1	5	ephemeral	riparian veg: willows, mule fat	yes	culvert/walls from El Casco Substation; connected to San Timoteo Creek
85C	7/12/2012		Riverside	492807	3758695	San Timoteo Creek	yes	yes	no	yes		A	N/A	3	3	1	4:1	<10	ephemeral	lack veg	no	roadside earthen ditch
86A	7/12/2012	14-17I	Riverside	493173	3758750	San Timoteo Creek	yes	yes	yes	yes		M	OHWL, vegetation	10-30	350	2	2:1	5	ephemeral	riparian veg: willows	yes	drainage near east edge of USACE wetland & 86B at west, LF:1-4, bermed, Soil Pits 3 to 8
86B	7/12/2012	11-13I	Riverside	493034	3758738	San Timoteo Creek	yes	no	yes	yes		M	OHWL, water channel, vegetation	20	350	2	0:1	5	perennial	riparian veg: cattails, willows	yes	drainage near west edge of USACE wetland & 86A at east, LF:4; single and braided channel, Soil Pits 1 and 2
89A	6/28/2012	0637G	Riverside	492098	3758148	N/A	no	no	no	yes		N	OHWL	4	5	<1	0:1	<10	ephemeral	ruderal	no	LF:1
90A	6/28/2012		Riverside	492396	3757997	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
91A	8/29/2012		Riverside	492824	3758061	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
93A	7/12/2012	27-29I	Riverside	493313	3758224	San Timoteo Creek	yes	yes	yes	yes		N	OHWL, vegetation	45-66	250	4	1:1	0	perennial	riparian veg: willows, cottonwoods	yes	San Timoteo Creek, LF:10
93B	7/12/2012	1-4,6I	Riverside	493582	3758191	N/A	yes	yes	yes	yes		M	OHWL, vegetation	30	100	3	1:1	0	perennial	riparian veg: willows, cattails	yes	LF:10ft; culvert/headwall 20ft at south (upstream) and culvert 4ft at north (downstream); has overflow side channels
93C	7/12/2012		Riverside	493372	3758236	San Timoteo Creek	yes	yes	no	yes		A	N/A	3	3	<1	4:1	<10	ephemeral	lack veg	no	roadside earthen ditch
94A	7/12/2012	0630G, 5I	Riverside	493804	3758284	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
95A	6/27/2012		Riverside	494263	3758294	N/A	no	no	no	yes		N	OHWL	1--3	1--3	<1	0:1	<10	ephemeral	ruderal, scrub	no	possible fill area
95B	6/27/2012	0629G	Riverside	494183	3758358	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
96A	6/27/2012		Riverside	494422	3758354	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
96B	6/27/2012		Riverside	494464	3758334	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	width 2 ft
97A	6/27/2012		Riverside	494781	3758317	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
98A	6/27/2012		Riverside	495168	3758195	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
98B	6/27/2012		Riverside	494998	3758230	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	

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99A	6/27/2012	0628G	Riverside	495627	3758136	San Timoteo Creek	yes	yes	no	yes		N, A	OHWL	2	2	<1	2:1	40	ephemeral	ruderal, scrub	no	leads into V-ditch
99B	6/27/2012		Riverside	495515	3758142	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
99C	6/27/2012		Riverside	495429	3758159	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
100A	6/27/2012		Riverside	495979	3758047	San Timoteo Creek	yes	yes	no	yes		N	OHWL	2	2	<1	5:1	<10	ephemeral	ruderal, scrub	no	LF:2, faint OHWL; leads into V-ditch
100B	6/27/2012		Riverside	495939	3758032	N/A	yes	yes	no	yes		N, A	N/A						ephemeral	ruderal, scrub	no	rill into V-ditch that connects to 101B
100C	6/27/2012		Riverside	495840	3758088	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
101A	6/27/2012		Riverside	496126	3758033	San Timoteo Creek	yes	yes	no	yes		A	OHWL	3	6	<1	1:1	40	ephemeral	ruderal, scrub	no	concrete trapezoidal ditch; road runoff; estimated using Google
101B	6/27/2012		Riverside	495714	3758070	San Timoteo Creek	yes	yes	no	yes		A	OHWL	2	6	<1	1:1	10	ephemeral	ruderal, scrub	no	48-inch culvert to east; trapezoidal V-ditch; estimated using Google
101C	6/27/2012		Riverside	496048	3758023	San Timoteo Creek	yes	yes	no	yes		A	OHWL	6	6		2:1	80	ephemeral	ruderal, scrub	no	diverted road runoff, connects to v-ditch
102A	6/27/2012	0625G	Riverside	496653	3757933	San Timoteo Creek	yes	yes	yes	yes		M	OHWL, vegetation, water	7	100	1	5:1	10	intermittent	riparian veg: willows, mule fat, tamarisk	yes	48-inch culvert; basin leads out of drainage
102B	6/27/2012	0626G	Riverside	496317	3757948	San Timoteo Creek	yes	yes	yes	yes		M	OHWL, vegetation, water	2--12	2--15	1	3:1	<10	ephemeral	riparian veg: willows, mule fat, cattails	yes	48-inch culvert; receives flows from 102A, leads into 4 ft wide V-ditch
103A	6/27/2012		Riverside	496829	3757767	San Timoteo Creek	yes	no	yes	yes		A	OHWL, standing water, vegetation	5	30	2	3:1	1	perennial	riparian veg: willows, cottonwoods	yes	rip rap regular along base of manufactured slope, standing water, receives flow from 36-inch culvert adjacent to the park and 104A
103B	6/27/2012		Riverside	496843	3757958	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	flows into 102A
104A	6/27/2012	0624G	Riverside	496980	3757752	San Timoteo Creek	yes	yes	no	yes		N	OHWL	3	15	<1	0:1	<10	perennial	ruderal, scrub	no	LF:3, lots of debris, 24-inch culvert
106A	6/27/2012	0623G	Riverside	497973	3757553	San Timoteo Creek	yes	yes	yes	yes		N, M	OHWL, vegetation	4	35	2	1:1	<10	ephemeral	riparian veg: willows	yes	LF:1-2, B:B=40-50 ft, dry bed, cement box culvert at northeast branch; enters basin but assumed connectivity using Google
109A	6/27/2012	0622G	Riverside	499048	3757361	San Timoteo Creek	yes	yes	no	yes		A	OHWL	15	15	2	3:1	<10	ephemeral	no veg	no	rip rap, channel/French drain, enters basin with assumed connectivity using Google
111A	6/27/2012	0621G	Riverside	499471	3757274	N/A	no	no	no	yes		A	vegetation	none	25	0	2:1	<10	ephemeral	riparian veg: willows,	yes	no OHWL; rip rap, 3ft culvert
111B	6/27/2012		Riverside	499476	3757234	N/A	no	no	no	no	swale	N	N/A						ephemeral	lack veg	no	standing water; roadside ditch

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113A	6/27/2012	0620G	Riverside	500405	3757042	N/A	no	no	no	no	swale	N	vegetation	none	40	0	3:1	10	perennial	riparian veg: willows, mule fat, cottonwoods	yes	"nuisance flow" drains from housing forming swale with riparian vegetation
114A	6/27/2012		Riverside	500573	3756956	N/A	no	no	no	no	swale	N	vegetation	none	35	0	3:01	10	ephemeral	riparian veg: willow, mule fat	yes	"nuisance flow" forming swale with riparian vegetation
115A	6/27/2012	0619G	Riverside	501060	3756776	San Timoteo Creek	yes	yes	no	yes		M	OHWM	115	115	2	2:1	20	ephemeral	lack veg	no	Noble Creek, earthen channel, concrete sides; sandy channel; estimated with Google
116A	6/27/2012		Riverside	501417	3756635	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
117A	6/27/2012	0618G	Riverside	501606	3756617	N/A	no	no	no	no	swale	A	N/A						ephemeral	ruderal, scrub	no	culvert for Ag field, OHV, trash
118A	6/27/2012	0617G	Riverside	502056	3756597	San Timoteo Creek	yes	yes	no	yes		N, M	OHWM, vegetation	5--8	50	3	0:1	<10	ephemeral	riparian veg: willow, mule fat plus eucalyptus	yes	LF:6, concrete apron/culvert
119A	6/27/2012		Riverside	502166	3756730	N/A	yes	yes	no	yes		M	OHWM, vegetation	10	40	2	1:1	<10	ephemeral	riparian veg: willows, mule fat	yes	concrete and rip rap channel
122A	6/27/2012		Riverside	503307	3756615	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft width, roadside ditch
122B	6/27/2012		Riverside	503317	3756494	N/A	no	no	no	yes		M	OHWM	6	6	<1	1:1	10	ephemeral	ruderal	no	roadside channel with rip rap outflow; culverts
123A	6/27/2012		Riverside	503445	3756458	N/A	no	no	no	no	swale	N	N/A							ruderal	no	Potrero Creek
126A	6/27/2012	0615G	Riverside	504498	3756257	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
127A	6/27/2012		Riverside	504891	3756251	San Gorgonio River	yes	yes	no	yes		A	OHWM	4	12	1	1:01	10	ephemeral	lack veg	no	concrete trapezoid channel
129A	6/27/2012	407G	Riverside	505811	3756255	San Gorgonio River	yes	yes	no	yes		N	OHWM	30	30	2	1:1	0	ephemeral	ruderal	no	Smith Creek; cow pasture
130A	6/27/2012	407G	Riverside	505879	3756305	San Gorgonio River	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	cow pasture
134A	6/22/2012	106I	Riverside	507674	3756377	N/A	no	no	no	yes		N	OHWM	2	2	<1	3:1	10	ephemeral	ruderal	no	
134B	6/22/2012		Riverside	507640	3756359	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft width, 60% gradient
134C	6/22/2012		Riverside	507642	3756342	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft width, 60% gradient
134D	6/22/2012		Riverside	507413	3756268	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft width, 60% gradient
134E	6/22/2012		Riverside	507627	3756184	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	3	<1	3:1	20	ephemeral	ruderal	no	estimated using Google
135A	6/22/2012	104I	Riverside	507738	3756266	N/A	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	20	ephemeral	ruderal	no	
135B	6/22/2012		Riverside	507702	3756194	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	40	ephemeral	ruderal	no	
135C	6/22/2012	105I	Riverside	507694	3756183	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	40	ephemeral	ruderal	no	
135D	6/22/2012	108I	Riverside	508031	3756253	San Gorgonio River	yes	yes	no	yes		N	OHWM	10--20	80	2	0:1	10	ephemeral	riparian veg: oak trees; sandy bottom	yes	Montgomery Creek

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHW Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
135E	6/22/2012	110I	Riverside	507948	3756239	San Gorgonio River	yes	yes	no	yes		N	OHW	2	3	<1	2:1	40	ephemeral	scrub	no	estimated using Google
135F	6/22/2012	110I	Riverside	507975	3756287	San Gorgonio River	yes	yes	no	yes		N	OHW	1	1	<1	2:1	40	ephemeral	scrub	no	west portion a swale then a drainage
135G	6/22/2012	107I, 110I	Riverside	508016	3756300	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	2 ft width, banks 12 ft wide
135H	6/22/2012	108I	Riverside	508031	3756325	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	2 ft width, 40% gradient
135I	6/22/2012	109I	Riverside	508149	3756240	N/A	yes	yes	no	yes		N	OHW	3	5	<1	0:1	40	ephemeral	scrub, chaparral	no	metal diverter, estimated using Google
135J	6/22/2012	110I	Riverside	507930	3756341	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	2 ft width, 60% gradient
135K	6/22/2012		Riverside	507910	3756344	N/A	no	no	no	yes		N	OHW	1	1	1	0:1	60	ephemeral	ruderal, scrub	no	
136A	6/27/2012		Riverside	508660	3756210	Smith Creek	yes	yes	no	yes		N	OHW	1--3	1--3	1	0:1	<10	ephemeral	ruderal, scrub	no	
137A	6/27/2012	0612G	Riverside	508995	3756136	Smith Creek	yes	yes	no	yes		N	OHW	3--5	3--5	1	3:1	<10	ephemeral	ruderal, scrub	no	swale into drainage
138A	6/27/2012		Riverside	509315	3756258	Smith Creek	yes	yes	no	yes		N	OHW	3	3	1	0:1	<10	ephemeral	ruderal, scrub	no	estimated
138B	6/22/2012	0612G	Riverside	509125	3756204	Smith Creek	yes	yes	no	yes		N	OHW	3--5	3--5	1	0:1	<10	ephemeral	ruderal, scrub	no	swale on N side, measured south side
139A	6/27/2012	0609G	Riverside	509707	3756151	N/A	no	no	no		swale	N	N/A						ephemeral	ruderal, scrub	no	swale into drainage outside of buffer
139B	6/22/2012		Riverside	509596	3756162	N/A	no	no	no		swale	N	N/A						ephemeral	chaparral	no	
139C	6/27/2012		Riverside	509769	3756303	N/A	no	no	no	yes		N	OHW	6	6	1	2:1	40	ephemeral	chaparral	no	estimated using Google
139D	6/27/2012		Riverside	509670	3756193	N/A	no	no	no		swale	N	N/A						ephemeral	ruderal, scrub	no	
140A	6/27/2012	0613G	Riverside	510020	3756249	Smith Creek	yes	yes	no	yes		N	OHW	1--6	1--30	1	2:1	40	ephemeral	scrub, chaparral	no	
141A	6/27/2012		Riverside	510626	3756777	N/A	no	no	no	yes		N	OHW	2--4	2--4	1	2:1	40--80	ephemeral	chaparral	no	tower high on hilltop, thick veg, estimated
141B	6/27/2012		Riverside	510243	3756283	Smith Creek	yes	yes	no	yes		N	OHW, vegetation	10	50	3	1:1	40	ephemeral	riparian veg: willows, cottonwoods	yes	estimated because very steep/dense veg
141C	6/22/2012		Riverside	510165	3756586	Smith Creek	yes	yes	no	yes		N	OHW	2	2	<1	2:1	10--40	ephemeral	scrub	no	tributary to 141B, estimated because very steep
143A	6/21/2012		Riverside	510240	3756402	Smith Creek	yes	yes	no	yes		N	OHW	2	2	<1	2:1	60	ephemeral	chaparral	no	estimated using Google
143B	6/21/2012		Riverside	510282	3756373	Smith Creek	yes	yes	no	yes		N	OHW	1	1	<1	2:1	80	ephemeral	chaparral	no	estimated using Google
143C	6/21/2012		Riverside	510371	3756263	Smith Creek	yes	yes	no	yes		N	OHW	3	3	<1	2:1	60	ephemeral	chaparral	no	estimated using Google
144A	6/21/2012		Riverside	510519	3756297	Smith Creek	yes	yes	no	yes		N	OHW	2	2	<1	2:1	40	ephemeral	chaparral	no	estimated using Google
144B	6/21/2012		Riverside	510753	3756384	N/A	no	no	no	yes		N	OHW	3	3	<1	4:1	20	ephemeral	chaparral	no	estimated using Google
144C	6/21/2012		Riverside	510829	3756333	N/A	no	no	no	yes		N	OHW	4	4	<1	4:1	20	ephemeral	chaparral	no	estimated using Google
149A	6/21/2012	99, 101-103I	Riverside	512642	3756087	San Gorgonio River	yes	yes	no	yes		N	OHW, vegetation	25--300	50--350	2--3	<1:1	10	ephemeral	riparian veg: willows, mule fat, cottonwoods, tamarisk	yes	San Gorgonio River, estimated using Google, riverbed braided with low flow channels

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152A	6/21/2012	0595G	Riverside	513264	3755513	N/A	no	no	no	no	inactive drainage feature	N	N/A						none	cobble, scrub	no	10-40 ft width, 1-5 ft deep, 10% gradient
152B	6/21/2012	0596G	Riverside	513303	3755575	N/A	no	no	no	no	inactive drainage feature	N	N/A						none	cobble, scrub	no	10-40 ft width, 1-5 ft deep, 10% gradient
153A	6/21/2012	0597G	Riverside	513401	3755319	N/A	no	no	no	no	inactive drainage feature	N	N/A						none	cobble, scrub	no	10-40 ft width, 1-5 ft deep, 10% gradient
155A	6/21/2012	0600G	Riverside	514244	3755436	N/A	no	no	no	no	inactive drainage feature	N	N/A	30--40	150		2:1	<10	none	riparian veg: desert willow; scrub, cobble	yes	Parallel to San Gorgonio River , LF:4(2 ft)
156A	6/21/2012	0601G	Riverside	514686	3755429	San Gorgonio River	yes	yes	no	yes		N	OHWM	300	700	2	3:1	10	ephemeral	riparian veg: desert willow	yes	San Gorgonio River, estimated using Google
158A	6/21/2012	0602G	Riverside	515263	3755373	N/A	no	no	no	yes		N	OHWM	3	3	<1	2:1	<10	ephemeral	scrub	no	
158B	6/21/2012	0603G	Riverside	515320	3755339	N/A	no	no	no	yes		N	OHWM	2	3	<1	2:1	<10	ephemeral	scrub	no	LF:<1
159A	6/21/2012	0604G	Riverside	515684	3755338	San Gorgonio River	yes	yes	no	yes		N	OHWM	3--5	6—15, veg 500	1	10:1	<10	ephemeral	riparian veg: desert willow	yes	Potrero Creek, LF:1, estimated using Google
161A	6/21/2012	0605G	Riverside	516196	3754957	N/A	no	no	no	yes		N	OHWM	1	1	<1	2:1	<10	ephemeral	scrub	no	drainage from tower pad
161B	6/21/2012	0606G	Riverside	516197	3754827	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft wide, 1 ft deep, <10 % gradient
162A	6/21/2012		Riverside	516383	3754835	N/A	no	no	no	no	rills	N	N/A					<10	ephemeral	ruderal	no	3 rills from parking lot;
164A	6/21/2012		Riverside	516919	3754668	N/A	no	no	no	no	swale	N, M	N/A					<10	ephemeral	ruderal	no	obscured by vegetation; becomes concrete basin
164B	6/21/2012		Riverside	517134	3754738	N/A	no	no	no	no	swale	N	N/A					<10	ephemeral	ruderal	no	Estimated; obscured by vegetation
164C	6/21/2012	0607G	Riverside	517112	3754607	San Gorgonio River	yes	yes	no	yes		N	OHWM	6	6--40	1	2:1	<10	ephemeral	ruderal	no	LF:1, major drainage near existing towers, no hydric vegetation
168A	6/22/2012	95-96I	Riverside	518442	3754597	N/A	no	no	no	yes		N, M	OHWM	3--66	4--66	<1	3:1	<10	ephemeral	scrub	no	braided gravel wash
169A	6/22/2012	87-94I	Riverside	518914	3754641	N/A	no	no	no	yes	isolated spring	N, M	water, mud, vegetation	3--50	3--50	<1	5:1	<10	perennial	riparian veg: mule fat, watercress, rabbitsfoot grass, swamp monkey flower	yes	muddy, rock aqueduct; cat claw habitat
172A	6/22/2012	85,86I	Riverside	519693	3754677	San Gorgonio River	yes	yes	no	yes		N	OHWM	440--1000	440--1000	3	2:1	10	ephemeral	riparian veg: desert willow	yes	Millard Creek, LF:2-3 ft deep, 3 ft wide; cobble braided wash with benches
174A	6/22/2012		Riverside	520633	3754749	N/A	no	no	no	no	swale	N	N/A	3	3		5:1	<10	ephemeral	scrub	no	
174B	6/22/2012		Riverside	520444	3754749	N/A	no	no	no	no	swale	N	N/A	2	3		5:1	<10	ephemeral	scrub	no	
175A	6/21/2012	78I	Riverside	521211	3754607	San Gorgonio River	yes	yes	no	yes		N	OHWM	14	16	1	2:1	<10	ephemeral	scrub	no	Deep Canyon Creek, LF:1-2
175B	6/21/2012		Riverside	521154	3754653	San Gorgonio River	yes	yes	no	yes		N	OHWM	2--6	2--6	<1	2:1	<10	ephemeral	scrub	no	Deep Canyon north of convergence, almost swale at north end

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175C	6/21/2012		Riverside	521153	3754710	San Gorgonio River	yes	yes	no	yes		N	OHWM	10	10	<1	8:1	<10	ephemeral	scrub	no	two northern braided channels connect to drainage south of road
175D	6/21/2012		Riverside	520934	3754840	San Gorgonio River	yes	yes	no	yes		N	OHWM	20	20	<1	6:1	<10	ephemeral	scrub	no	converges with Deep Canyon, slight braid
175E	6/21/2012	79,80I	Riverside	520901	3754748	N/A	no	no	no	yes		N	OHWM	2	2	<1	10:1	<10	ephemeral	scrub	no	northern half is a swale
175F	6/21/2012	81I	Riverside	520866	3754723	N/A	no	no	no	yes		N	OHWM	3	3	<1	3:1	<10	ephemeral	scrub	no	swalish
175G	6/21/2012	82,83I	Riverside	520821	3754725	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	3--15	<1	1:1	<10	ephemeral	scrub	no	LF with terrace. OHWM included
175H	6/21/2012	84I	Riverside	520739	3754659	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	5 ft width
176A	6/22/2012	71,76,77I	Riverside	521355	3754648	San Gorgonio River	yes	yes	no	yes		N	OHWM	7	8	<1	2:1	10	ephemeral	scrub	no	
176B	6/22/2012		Riverside	521289	3754721	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	4 ft width
176C	6/22/2012	72I	Riverside	521338	3754734	San Gorgonio River	yes	yes	no	yes		N	OHWM	6	6	<1	3:1	10	ephemeral	scrub	no	western half is a swale
176D	6/22/2012		Riverside	521281	3754808	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	10	ephemeral	scrub	no	roadside ditch and then swale
176E	6/22/2012		Riverside	521325	3754836	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
176F	6/21/2012	74I	Riverside	521138	3754869	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
176G	6/21/2012		Riverside	521191	3754855	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
177A	6/21-22/2012	68,69I	Riverside	521712	3754746	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	
177B	6/21-22/2012		Riverside	521586	3754725	N/A	no	no	no	yes		N	OHWM	1	1	<1	1:1	60	ephemeral	scrub	no	
177C	6/21-22/2012	70	Riverside	521517	3754653	San Gorgonio River	yes	yes	no	yes		N	OHWM	5	5	<1	5:1	<10	ephemeral	scrub	no	
178A	6/21-22/2012	66,67I	Riverside	521916	3754739	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	3	<1	1:1	<10	ephemeral	scrub	no	
178B	6/21-22/2012		Riverside	522049	3754735	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
179A	6/21-22/2012	64I	Riverside	522466	3754733	San Gorgonio River	yes	yes	no	yes		N	OHWM	80	100	2	0:1	10	ephemeral	riparian veg: desert willow	yes	Lion Canyon River
179B	6/21-22/2012		Riverside	522238	3754737	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
180A	6/21/2012		Riverside	522704	3754679	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	2:1	20	ephemeral	scrub	no	swale northern half; estimated
180B	6/21-22/2012		Riverside	522627	3754864	San Gorgonio River	yes	yes	no	yes		N, M	OHWM	4	4	<1	2:1	20	ephemeral	scrub	no	flows along road (recently graded)
180C	6/21-22/2012	65I	Riverside	522516	3754838	San Gorgonio River	yes	yes	no	yes		N	OHWM	4	4	1	1:1	10	ephemeral	scrub	no	

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181A	6/21/2012	60I	Riverside	523103	3754794	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
181B	6/21/2012	61I	Riverside	522898	3754785	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	20	ephemeral	scrub	no	
181C	6/21/2012	62,63I	Riverside	522930	3754732	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	3	<1	2:1	20	ephemeral	scrub	no	estimated; two of three branches are swales in Grid 180
182A	6/21/2012	58I	Riverside	523469	3754707	San Gorgonio River	yes	yes	no	yes		N	OHWM	1	1	<1	2:1	40	ephemeral	scrub	no	swale at north
182B	6/21/2012	59I	Riverside	523272	3754706	N/A	no	no	no	yes	depressional feature	N	N/A	300	300	<1	10:1	0	ephemeral	lack veg	no	isolated depression, dried mud
183A	6/21/2012	54I	Riverside	523643	3754709	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	60	ephemeral	scrub	no	
183B	6/21/2012	55I	Riverside	523849	3754742	N/A	no	no	no	yes		N	OHWM	3	3	<1	1:1	40	ephemeral	scrub	no	flattens out to no OHWM
183C	6/21/2012	56,57I	Riverside	523676	3754748	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	3	<1	2:1	40	ephemeral	scrub	no	northern branches swales
184A	6/21/2012	51I	Riverside	524240	3754712	San Gorgonio River	yes	yes	no	yes		N	OHWM	4	4	<1	2:1	<10	ephemeral	scrub	no	
184B	6/21/2012	53I	Riverside	524077	3754692	San Gorgonio River	yes	yes	no	yes		N	OHWM	8	18	<1	2:1	<10	ephemeral	scrub	no	
184C	6/21/2012	52I	Riverside	524050	3754691	San Gorgonio River	yes	yes	no	yes		N	OHWM	20	30	<1	1:1	<10	ephemeral	scrub	no	braided channel with LF sum of 12 ft
184D	6/21/2012		Riverside	524177	3754744	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
185A	6/21/2012, 4/17/2012	47I	Riverside	524621	3754728	San Gorgonio River	yes	yes	no	yes		N	OHWM	3--15	3--15	<1	2:1	<10	ephemeral	scrub	no	LF: <2
185B	6/21/2012	48I	Riverside	524610	3754613	San Gorgonio River	yes	yes	no	yes		N	OHWM	15	20	<1	1:1	<10	ephemeral	scrub	no	
185C	6/21/2012	49I	Riverside	524651	3754827	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2--4	<1	1:1	<10	ephemeral	scrub	no	
185D	6/21/2012	50I	Riverside	524439	3754647	N/A	no	no	no	yes		N	OHWM	2	2	<1	5:1	<10	ephemeral	scrub	no	
186A	6/21/2012	43I	Riverside	524770	3754786	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	3	<1	5:1	<10	ephemeral	scrub	no	northern half is a swale
186B	6/21/2012	44,45I	Riverside	524715	3754701	San Gorgonio River	yes	yes	no	yes		N	OHWM	7--15	7--20	<1	2:1	<10	ephemeral	scrub	no	wide braided wash
186C	6/21/2012	46I	Riverside	524693	3754702	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	5:1	<10	ephemeral	scrub	no	
187A	6/21/2012	40I	Riverside	525106	3754748	San Gorgonio River	yes	yes	no	yes		N	OHWM	6	8	<1	2:1	<10	ephemeral	scrub	no	

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187B	6/21/2012	41B	Riverside	525154	3754711	San Gorgonio River	yes	yes	no	yes		N	OHWM	1	3	<1	0:1	<10	ephemeral	scrub	no	
187C	6/21/2012	42I	Riverside	525102	3754840	San Gorgonio River	yes	yes	no	yes		N	OHWM	8	8	<1	4:1	<10	ephemeral	scrub	no	northern portions swales
187D	6/21/2012	41I	Riverside	525350	3754743	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	2 ft width
188A	6/21/2012	39I	Riverside	525437	3754708	N/A	no	no	no	yes		N	OHWM	4	6	<1	2:1	<10	ephemeral	scrub	no	
190A	4/17/2012		Riverside	526152	3754741	N/A	no	no	no	yes		N	OHWM	10--40	10--40	<1	0:1	<10	ephemeral	scrub	no	40 ft wide at road; northern end is a swale
190B	4/17/2012		Riverside	526324	3754754	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	low rolling and flat
191A	4/17/2012		Riverside	526839	3754564	San Gorgonio River	yes	yes	no	yes		N	OHWM	2--50	2--50	<1	5:1	<10	ephemeral	scrub	no	LF:2 ft; flat, rocky
192A	4/17/2012		Riverside	527005	3754578	San Gorgonio River	yes	yes	no	yes		N	OHWM	2--3	2--3	<1	1:1	<10	ephemeral	scrub	no	no LF; swale at northern and southern portions
192B	4/17/2012		Riverside	527087	3754573	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
193A	4/17/2012		Riverside	527420	3754647	San Gorgonio River	yes	yes	no	yes		N	OHWM	4--8	4--8	1	2:1	<10	ephemeral	scrub	no	
193B	4/17/2012		Riverside	527436	3754652	San Gorgonio River	yes	yes	no	yes		N	OHWM	8--20	8--20	<1	1:1	<10	ephemeral	scrub	no	LF:1-4 ft
193C	4/17/2012		Riverside	527411	3754624	N/A	no	no	no		swale	N	N/A				0:1	<10	ephemeral	scrub	no	
193D	4/17/2012		Riverside	527293	3754661	San Gorgonio River	yes	yes	no	yes		N	OHWM	1--2	1--2	<1	1:1	<10	ephemeral	scrub	no	no LF
193E	4/17/2012		Riverside	527227	3754659	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
194A	4/17/2012		Riverside	527662	3754560	N/A	no	no	no	no	swale	N							ephemeral	scrub	no	2 ft width, 5 ft depth bank
194B	4/17/2012		Riverside	527876	3754391	San Gorgonio River	yes	yes	no	yes		N	OHWM	10-15, 2-10	10-15, 2-10	<1	1:1	10	ephemeral	scrub	no	starts north as a swale, then alternates drainage, swale, drainage
194C	4/17/2012		Riverside	527718	3754721	San Gorgonio River	yes	yes	yes	yes		N	OHWM, vegetation, water	10--30	10--30	<1	1:1	20	perennial	riparian veg: desert willow	yes	LF:1-3 ft, incised; water; active wet area with vegetation
194D	4/17/2012		Riverside	527940	3754557	San Gorgonio River	yes	yes	no	yes		N	OHWM	15--25	15--25	<1	2:1	20	ephemeral	scrub	no	LF:1-2 ft
194E	4/17/2012		Riverside	527860	3754744	San Gorgonio River	yes	yes	no	yes		N	OHWM	2	2	<1	3:1	20	ephemeral	scrub	no	LF:1 ft
195A	4/17/2012		Riverside	528054	3754421	San Gorgonio River	yes	yes	no	yes		N	OHWM	1	4	<1	3:1	0	ephemeral	scrub	no	swale downstream
198A	4/18/2012	8942I	Riverside	529255	3754488	N/A	no	no	no		swale	N	N/A						ephemeral		no	
198B	4/18/2012	8940I	Riverside	529123	3754604	N/A	no	no	no		swale	N	N/A						ephemeral	scrub	no	1 ft width
198C	4/18/2012		Riverside	529002	3754551	San Gorgonio River	yes	yes	no	yes		N, M	OHWM, vegetation	20	20	1	1:1	10	ephemeral	riparian veg: desert willow	yes	Cottonwood Canyon, braided; sandy bottom to concrete channel

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWL Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
199A	4/18/2012		Riverside	529342	3754602	N/A	no	no	no	yes		N	OHWL	1	1	<1	3:1	30	ephemeral	ruderal, dry mud	no	LF:1, not always definite but some dry mud areas
200A	4/18/2012		Riverside	529708	3754641	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	LF:0; road runoff; 25 ft B to B
200B	4/18/2012		Riverside	529706	3754509	N/A	no	no	no	no	swales	N	N/A						ephemeral	ruderal	no	3 swales
201A	4/18/2012	8932I	Riverside	530251	3754654	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	1 ft width
204A	4/18/2012	8929-8930I	Riverside	530694	3754530	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	10 ft width, small boulders
205A	4/18/2012	8928, 8920I	Riverside	531112	3754574	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
208A	4/18/2012	8916I, 8914I	Riverside	532377	3754635	N/A	no	no	no	yes		N	OHWL	12	12	1	2:1	40--60	ephemeral	scrub	no	
208B	4/18/2012	8914I	Riverside	532271	3754545	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	4 ft width, 3 ft depth
208C	4/18/2012		Riverside	532130	3754525	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
209A	4/18/2012		Riverside	529856	3754386	N/A	no	no	no	no	swale	N	N/A						ephemeral		no	
211A	4/18/2012	8944I	Riverside	530639	3754299	N/A	no	no	no	no	swale	N	N/A	2	2		4:1	20	ephemeral	scrub	no	
212A	4/18/2012		Riverside	530779	3754292	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
212B	4/18/2012		Riverside	530825	3754210	N/A	no	no	no	yes		N	OHWL	10--25	10--25	<1	2:1	20	ephemeral	ruderal	no	estimated using Google
213A	4/18/2012		Riverside	531114	3754236	N/A	no	no	no	no	swales	N	N/A						ephemeral	ruderal	no	3 swales
213B	4/18/2012		Riverside	531218	3754253	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
213C	4/18/2012		Riverside	531327	3754185	N/A	no	no	no	no	swales	N	N/A						ephemeral	scrub	no	
216A	4/18/2012	8948I	Riverside	532267	3754179	N/A	no	no	no	yes		N	OHWL	5	25	<1	2:1	20	ephemeral	scrub	no	
217A	4/18/2012		Riverside	532701	3754700	N/A	no	no	no	yes		N	OHWL	2	2	<1	2:1	100	ephemeral	scrub	no	LF:1 ft
217B	4/18/2012		Riverside	532766	3754643	N/A	no	no	no	no	swale	N, M	N/A						ephemeral	scrub	no	pipe present, not much flat, rocks
218A	4/18/2012		Riverside	532930	3754723	N/A	no	no	no	yes		N	OHWL	1--6	1--6	<1	1:1	80	ephemeral	scrub	no	LF:1-2 ft; canyon
218B	4/18/2012		Riverside	533076	3754802	N/A	no	no	no	yes		N, M	OHWL	6	6	<1	2:1	80	ephemeral	scrub	no	LF:5 ft; graded pad
221A	4/18/2012		Riverside	532765	3754277	N/A	no	no	no	yes		N	OHWL	5--15	5--15	<1	2:1	80--100	ephemeral	scrub	no	LF:0; one out of three branches is a swale
221B	4/18/2012		Riverside	532515	3754307	N/A	no	no	no	yes		N	OHWL	2--3	2--3	<1	1:1	100	ephemeral	scrub	no	LF:1
221C	4/18/2012	8962I	Riverside	532595	3754230	N/A	no	no	no	yes		N	OHWL	5	5	<1	4:1	100	ephemeral	scrub	no	
221D	4/18/2012	8962I	Riverside	532638	3754254	N/A	no	no	no	yes		N	OHWL	5	5	<1	4:1	100	ephemeral	scrub	no	
222A	4/18/2012		Riverside	532972	3754399	N/A	no	no	no	yes		N, M	OHWL	10--45	10--45	<1	3:1	100	ephemeral	scrub	no	LF:1 ft and 20 ft wide; old roads, metal culvert pipe 3 ft
224A	4/18/2012		Riverside	533374	3754679	Whitewater River	yes	yes	no	yes		N	OHWL	250	1,000	10	2:01	20	perennial	lack veg, cobble	no	Whitewater Canyon, LF:70; water; aqueduct outflow, estimated using Google
225A	4/17/2012		Riverside	534000	3754694	N/A	no	no	no	yes		N	OHWL	3	3	<1	2:1	20	ephemeral	scrub	no	LF:0
227A	4/17/2012		Riverside	535062	3754772	San Gorgonio River	yes	yes	no	yes		N	OHWL	20--40	40	2	1:1	20	ephemeral	scrub	no	Super Creek, LF:20-40 ft; 2 inch-1 ft incised, braided
228A	4/17/2012		Riverside	535394	3754662	San Gorgonio River	yes	yes	no	yes		N	OHWL	1--3	1--3	<1	2:1	20	ephemeral	scrub	no	LF:0-1 ft; starts and ends as swale
228B	4/17/2012		Riverside	535197	3754773	San Gorgonio River	yes	yes	no	yes		N	OHWL	4	8	<1	2:1	20	ephemeral	scrub	no	estimated using Google

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWL Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
229A	4/17-19/12		Riverside	535458	3754745	San Gorgonio River	yes	yes	no	yes		N	OHWL	1	1	<1	3:1	10	ephemeral	scrub	no	drains to Garnet Wash
229B	4/17-19/12		Riverside	535457	3754820	San Gorgonio River	yes	yes	no	yes		N	OHWL	3--8	3--8	<1	3:1	10	ephemeral	scrub	no	LF:1; drains to Garnet Wash
229C	4/17-19/12		Riverside	535426	3754823	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
229D	4/17-19/12		Riverside	535624	3754680	San Gorgonio River	yes	yes	no	yes		N	OHWL	3--9	3--9	<1	1:1	10	ephemeral	scrub	no	LF:1-3; drains to Garnet Wash
230A	4/17-19/12		Riverside	535993	3754809	N/A	no	no	no	yes		N	OHWL	3	4	<1	2:1	10	ephemeral	scrub	no	LF:1 ft
230B	4/17-19/12		Riverside	535689	3754858	San Gorgonio River	yes	yes	no	yes		N	OHWL	50	50	<1	1:1	10	ephemeral	scrub	no	LF:4; drains to Garnet Wash
230C	4/17-19/12		Riverside	535695	3754807	San Gorgonio River	yes	yes	no	yes		N	OHWL	2	3	<1	2:1	10	ephemeral	scrub	no	LF:1-3; starts as a swale; drains to Garnet Wash
232A	4/17-19/12		Riverside	536683	3754733	San Gorgonio River	yes	yes	no	yes		N	OHWL	5--60	5--60	<1	1:1	10	ephemeral	scrub	no	LF:1; braided channel, each braid is incised in some areas
232B	4/17-19/12		Riverside	536738	3754591	N/A	no	no	no	yes		N	OHWL	2	4	<1	2:1	10	ephemeral	scrub	no	
234A	4/17-19/12		Riverside	537294	3754872	N/A	no	no	no	yes		N	OHWL	2--4	2--4	<1	2:01	10	ephemeral	scrub	no	portion braided; intermittent incised
234B	4/17-19/12		Riverside	537396	3754542	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
235A	4/17-19/12		Riverside	537744	3754648	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	5 ft width
235B	4/17-19/12		Riverside	537701	3754844	San Gorgonio River	no	no	no	yes		N	OHWL	4	4	<1	2:1	10	ephemeral	scrub	no	
235C	4/17-19/12		Riverside	537536	3754561	San Gorgonio River	yes	yes	no	yes		N, M	OHWL	2--7	2--7	<1	2:1	10	ephemeral	scrub	no	starts as a swale; southern end is graded
236A	4/17-19/12		Riverside	538129	3754721	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	3 ft width
236B	4/17-19/12		Riverside	538071	3754680	N/A	no	no	no	yes		N	OHWL	3--5	3--5	<1	2:1	10	ephemeral	scrub	no	starts and ends as a swale
236C	4/17-19/12		Riverside	537939	3754740	N/A	no	no	no	yes		N	OHWL	3--5	3--5	<1	2:1	10	ephemeral	scrub	no	southern half is a swale
236D	4/17-19/12		Riverside	537802	3754610	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	2 ft width
236E	4/17-19/12		Riverside	537936	3754572	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
237A	4/17-19/12		Riverside	538393	3754746	San Gorgonio River	no	no	no	yes		N	OHWL	1--3	1--3	<1	2:1	10	ephemeral	scrub	no	starts and ends as a swale; south end is deep and sandy
237B	4/17-19/12		Riverside	538463	3754928	San Gorgonio River	no	no	no	yes		N	OHWL	8--18	8--18	1	4:1	10	ephemeral	scrub	no	braided in parts, swale in center portion
238A	4/17-19/12		Riverside	538671	3754735	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
240A	4/18/2012		Riverside	538671	3755387	San Gorgonio River	yes	yes	no	yes		N	OHWL	10--75	10--75	<1	2:1	10	ephemeral	scrub	no	
240B	4/18/2012		Riverside	538575	3755493	N/A	no	no	no	no	swale	N	N/A	50	50		2:1		ephemeral	scrub	no	
240C	4/18/2012		Riverside	538840	3754821	San Gorgonio River	yes	yes	no	yes		N	OHWL	20-75	20-75	2	1:1	10	ephemeral	scrub	no	

Table B: 2012 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential USACE Section 404 Nonwetland	Potential USACE Section 404 Wetland	Potential CDFW Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width USACE (feet)	Width CDFW (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments
240D	4/18/2012		Riverside	538835	3755031	San Gorgonio River	yes	yes	no	yes		N	OHWM	3--55	3--55	2	1:1	10	ephemeral	scrub	no	
241A	4/19/2012		Riverside	538754	3755870	San Gorgonio River	yes	yes	no	yes		N	OHWM	65	65	<1	1:1	10	ephemeral	scrub	no	LF:2
241B	4/19/2012		Riverside	538719	3755918	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	4 ft width
241C	4/19/2012		Riverside	538732	3755747	San Gorgonio River	yes	yes	no	yes		N	OHWM	3--7	3--7	1	2:1	10	ephemeral	scrub	no	
241D	4/19/2012		Riverside	538655	3755744	San Gorgonio River	yes	yes	no	yes		N	OHWM	7	7	<1	1:1	10	ephemeral	scrub	no	
241E	4/19/2012		Riverside	538693	3755575	San Gorgonio River	yes	yes	no	yes		N	OHWM	25-45	25-45	<1	1:1	10	ephemeral	scrub	no	
241F	4/19/2012		Riverside	538631	3755586	N/A	no	no	no	no	swale	N	N/A					10	ephemeral	Scrub	no	
Riparian Vegetation within the 500-Foot Buffer: Not Associated with a Drainage that Occurs within the 250-Foot Buffer																						
North of 1A	2012		San Bernardino	470630	3760957	N/A	no	no	no	yes		N	vegetation							riparian veg: willows	yes	Riparian veg within 500 ft buffer
North of 2A	2012		San Bernardino	470708	3766961	N/A	no	no	no	yes		N	vegetation							riparian veg: willows	yes	Riparian veg within 500 ft buffer
South of 10A	6/11/2012		San Bernardino	473289	3766406	N/A	no	no	no	yes		N	vegetation							riparian veg: willows	yes	Riparian veg within 500 ft buffer
North of 94A	7/12/2012	7,81	Riverside	493659	3758738	N/A	no	no	no	yes		A	basin, vegetation	250	300	1	3:1	0	ephemeral	riparian veg: willows, cottonwoods, annuals	yes	Basin potentially isolated, widths estimated in field/Google
East of 86B	7/12/2012		Riverside	493874	3758531	N/A	no	no	no	yes		N	vegetation	none	350				ephemeral	riparian veg: willows, mule fat	yes	no OHWM evident, Soil Pits 88-1 and 88-2
NWest of 152B	6/21/2012		Riverside	512873	3755970	San Gorgonio River	yes	yes	yes	yes	basin	A	OHWM, basin, vegetation	700	700	4	1:1	0	perennial	riparian veg: willows, mule fat	yes	basin in mine, estimated using Google

Legend (left to right):

- Drainage Number** – Identification number, which corresponds to the grid section location on the maps.
- Photo Number** – Photo number and the initial of the photographer (E = Erin Martinelli, G = Gin Ingram, I = Ingri Quon, W = Wendy Walters)
- UTM** – Approximate central Universal Transverse Mercator (UTM) coordinate of the drainage.
- Nearest Major Tributary** – The nearest tributaries to a traditional navigable water (TNW) are listed as follow: Santa Ana River, Reche Canyon, Mission Channel, San Timoteo Creek, San Timoteo Wash to the Pacific Ocean; and the San Gorgonio River, Whitewater River, Super Creek, Garnet Wash to the Salton Sea.
- Likely USACE Jurisdictional Status** – Summary column of USACE status. If the drainage is ultimately tributary to a TNW then the drainage is potentially USACE jurisdictional.
- Potential USACE Section 404 Nonwetland Drainage** – In most cases soil pits were not dug for the assessment, so the nonwetland status was estimated by either the lack of hydrophytic vegetation, or estimated lack of hydric soil indicators.
- Potential USACE Section 404 Wetland Drainage** – In most cases soil pits were not dug for the assessment, so the wetland status was estimated by the likelihood of the soil *having* hydric soil indicator(s).
- Potential CDFW Section 1600–1616 Drainage** – Any drainage feature that has evidence of water flow is potentially CDFW jurisdictional.
- Other Drainage Features** – These features are nonjurisdictional and include rills/gullies, swales, inactive drainage features, and a depressional feature.
- Drainage Characteristics** – Natural: Drainage with an earthen channel and little/no evidence of human disturbance; Manipulated: Former natural drainage with evidence of human disturbance (some grading and/or detention basins); Artificial: Human-made feature (concrete v-ditch, some detention basins).
- Reasoning** – If a drainage feature has evidence of water flow, then an Ordinary High Water Mark (OHWM) indicator may include benches, drift deposits, exposed root hairs, and/or change in particle size distribution. If the drainage features has no indicators of flow the feature is not considered a water body by the USACE and this column cell will have N/A.

Width USACE – Estimated width and average of the entire drainage’s OHWM in feet. In some cases there is a range if the drainage varies significantly.

Width CDFW – Estimated and averaged width of the entire drainages bank to bank in feet. In some cases there is a range if the drainage varies significantly.

OHWM Depth – Estimated and averaged depth in feet from the top of the USACE OHWM to the bottom of the drainage.

Side Slope Ratio – The estimated and averaged ratio of the side slope for the area of water flow.

Percent Gradient – The estimated and averaged gradient of the water flow path (rise over run) expressed in percent.

Hydrologic Regime – Ephemeral: Flows during and shortly after precipitation event; Intermittent: Flowing water during certain times of year (winter/spring, runoff from development); Perennial: Flowing water year-round during a typical year. Groundwater is the primary water source.

Biological Characteristics – Description of the vegetation type including if riparian vegetation is present and the dominant species.

Riparian Vegetation – CDFW typically takes jurisdiction over the area of riparian vegetation. Presence is indicated by yes or no.

Comments – Notes here may include miscellaneous observations, including the width of the low flow channel (LF) in feet, estimated width or depth of a swale/rill/etc. for informational purposes, and other notable drainage characteristics.

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning)	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
1A	9/10/2013		San Bernardino	470510.553	3766534.9	Santa Ana River	yes	yes	no	yes		A	OHWM	3--5	5--14	<1	1:1	10	ephemeral	lack veg	no	Man-made channels within, and bordering the Vista substation; estimated using Google
4A	5/15/2013		San Bernardino	471423.295	3767068.1	N/A	no	no	no	no	rill	N	N/A						ephemeral	dense grass, poison oak	no	Very steep berm
9A	3/4/2013	123906G	San Bernardino	473101.975	3766459.4	N/A	no	no	no	yes		N	OHWM, vegetation	12	12	<2	0:1	40	ephemeral	upland	no	confined
9B	3/4/2013	125111G	San Bernardino	473013.701	3766478.3	N/A	no	no	no	no	swale, rill	N	N/A						ephemeral	ruderal	no	debris, dumping area; swale with large rill just off of road
9C	3/4/2013		San Bernardino	472932.759	3766496.6	N/A	no	no	no	yes		N	OHWM	1--3	1--3	<2	0:1	60	ephemeral	upland	no	OHV, trash piles up with 9B; confined
10A	3/4/2013	201G, 30304G	San Bernardino	473294.648	3766439.2	N/A	no	no	no	yes		N	vegetation, drift line	5--11	5--35	<3	0:1	<20	ephemeral	riparian veg: willows	yes	sandy loam; confined
15A	3/4/2013	3I	San Bernardino	475243.042	3766393.2	N/A	no	no	no	yes		N	OHWM	10	10	<1	1:1	10	ephemeral	scrub	no	drainage at base of narrow ridge with erosion rills feeding into it
15B	3/4/2013		San Bernardino	475202.99	3766379.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
15C	3/4/2013		San Bernardino	475144.88	3766255	N/A	no	no	no	no	rill	N	OHWM						ephemeral	ruderal	no	
15D	3/4/2013		San Bernardino			Santa Ana River	yes	yes	no	yes		A	OHWM	4	4	2	0:1	<20	ephemeral	lack veg	no	concrete brow ditch; 6-inch staining on concrete
15E	3/4/2013	140143G	San Bernardino	474982.784	3765687.6	Santa Ana River	yes	yes	no	yes		A	OHWM	4	4	2	0:1	<20	ephemeral	lack veg	no	concrete brow ditch; 6-inch staining on concrete
15F	3/4/2013		San Bernardino	475053.507	3765663.7	Santa Ana River	yes	yes	no	yes		N	OHWM	1--2	1--2	1--2	0:1	20	ephemeral	ruderal	no	estimated; near road
15G	9/10/2013		San Bernardino	475112.046	3766203.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
16A	3/4/2013	1I, 2I, 5I	San Bernardino	475301.845	3766471	N/A	no	no	no	yes		N	OHWM	1	3	<1	1:1	60	ephemeral	grass, cottonwood, poison oak	no	steep access from top
16B	3/4/2013		San Bernardino	475296.309	3766393	N/A	no	no	no	no	swale, rill	N	N/A	3	3	<1	1:1	60	ephemeral	ruderal	no	swale and side erosion tributary that connect to 15A
16C	3/4/2013		San Bernardino	475274.414	3766479.7	N/A	no	no	no	yes		N	OHWM	2	2	<1	1:1	40	ephemeral	grass	no	soil; estimated from above; confined
16D	3/4/2013	4I, 5I, 6I, 7I, 9I	San Bernardino	475324.111	3766309.4	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	40	ephemeral	ruderal	no	soil; narrow road
16E	3/4/2013		San Bernardino	475294.225	3766300.3	N/A	no	no	no	yes		N	OHWM	5	5	<1	2:1	20	ephemeral	ruderal	no	sandy bottom; swalish, steep sides; assessed from top
16F	3/4/2013		San Bernardino	475285.807	3766359.4	N/A	no	no	no	no	rill	N	N/A	4	4	<2	1:1	60	ephemeral	chaparral	no	erosion rill that connects to 15A
16G	3/4/2013		San Bernardino	475226.586	3765544.9	N/A	yes	yes	no	yes		M	OHWM	10	10	1	2:1	<40	ephemeral	chaparral	no	downward slope with incised sides, a dozen created; questionable

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Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=Natural, A=artificial)	Reasoning	Width Corps (feet)	Width CDFG (feet)	OHW Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)
16H	9/10/2013		San Bernardino	475240.990	3766154.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
17A	3/4/2013	151424G	San Bernardino	475765.759	3766047.5	N/A	no	no	no	no	swale	N	N/A	4-5	4-5				ephemeral	ruderal	no	sandy
17B	3/4/2013	145326G	San Bernardino	475789.047	3765930.8	N/A	no	no	no	yes		N	OHW	10	10	1	0:1	10	ephemeral	chaparral	no	confined
17C	9/10/2013		San Bernardino	475688.771	3766078.4	N/A	no	no	no	yes		N	OHW	10	10	1	0:1	10	ephemeral	ruderal	no	estimated using Google
19A	3/4/2013	154322G	San Bernardino	476478.047	3766029.3	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	<1	0:1	10	ephemeral	chaparral	no	
19B	9/10/2013		San Bernardino	476355.043	3766083.5	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	<1	0:1	10	ephemeral	chaparral	no	estimated using Google
19C	9/10/2013		San Bernardino	476390.453	3766072.4	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	<1	0:1	10	ephemeral	chaparral	no	estimated using Google
20A	3/4/2013	155229G	San Bernardino	476612.051	3766004.5	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	2	0:1	10	ephemeral	ruderal	no	incised
20B	9/10/2013		San Bernardino	476629.994	3766055.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
20C	9/10/2013		San Bernardino	476495.502	3766098.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
20D	9/10/2013		San Bernardino	476821.456	3766086.3	N/A	no	no	no	yes		N	OHW	1-2	1-2	<1	1:1	80	ephemeral	ruderal, scrub	no	estimated using Google
21A	3/4/2013		San Bernardino	477286.499	3766359.4	Santa Ana River	yes	yes	no	yes		N	OHW	3	3	<1	1:1	20	ephemeral	grass, eucalyptus	no	confined; soil; ends with Euc at Park
21B	9/10/2013		San Bernardino	477277.981	3766137.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
22A	3/4/2013	10I	San Bernardino	477313.72	3766292.2	N/A	no	no	no	no	rill	N	N/A	3	3	<1	1:1	20	ephemeral	scrub	no	off road, daylights
22B	3/4/2013		San Bernardino	477470.413	3766065.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
22C	9/10/2013		San Bernardino	477228.569	3765821.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
22D	9/10/2013		San Bernardino	477478.329	3766124.3	Santa Ana River	yes	yes	no	yes		N	OHW	3-9	3-9	1	0:1	80	ephemeral	ruderal, scrub	no	estimated using Google
22E	9/10/2013		San Bernardino	477580.515	3766146.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
22F	9/10/2013		San Bernardino	477634.179	3766111.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
23A	3/4/2013		San Bernardino	477721.345	3765524.6	Santa Ana River	yes	yes	no	yes		N	OHW	5	5	3	0:1	100	ephemeral	ruderal	no	bobcat detected
23B	3/4/2013		San Bernardino	477866.921	3765391.9	Santa Ana River	yes	yes	no	yes		N	OHW	8	8	3	0:1	100	ephemeral	ruderal, scrub	no	
23C	9/10/2013		San Bernardino	477635.089	3765639.0	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
23D	9/10/2013		San Bernardino	477687.623	3765602.9	Santa Ana River	yes	yes	no	yes		N	OHW	4-8	4-8	1-3	0:1	90	ephemeral	ruderal, scrub	no	estimated using Google
23E	9/10/2013		San Bernardino	477996.650	3765495.6	Santa Ana River	yes	yes	no	yes		N	OHW	4-8	4-8	1-3	0:1	90	ephemeral	scrub	no	estimated using Google
24A	3/4/2013	12I, 13I	San Bernardino	477596.986	3766347.5	Santa Ana River	yes	yes	no	yes		M	OHW	3	8	<1	4:1	10	ephemeral	ruderal	no	unconfined; connects to 24C; K-rails across; soil

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Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning)	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
24B	3/4/2013	111	San Bernardino	477651.635	3766267.8	N/A	no	no	no	no	swale, rill	N	N/A	5	5	<1	1:1	10	ephemeral	ruderal	no	rill, swale, daylights before road; near detention basin
24C	3/4/2013		San Bernardino	477600.944	3766361.9	Santa Ana River	yes	yes	no	yes		M	OHWM	5--6	5--6	<1	2:1	10	ephemeral	ruderal, scrub, chaparral	no	estimated using Google Maps; flows into basin and then onto road
24D	9/10/2013		San Bernardino	477799.125	3766106.9	Santa Ana River	yes	yes	no	yes		N	OHWM	3--12	3--12	1--2	0:1	40	ephemeral	scrub	no	estimated using Google
24E	9/10/2013		San Bernardino	477745.849	3766242.4	Santa Ana River	yes	yes	no	yes		N	OHWM	2--5	2--5	<1	1:1	10	ephemeral	scrub, chaparral	no	estimated using Google
24F	9/10/2013		San Bernardino	477736.178	3766348.0	Santa Ana River	yes	yes	no	yes		N	OHWM	3	3	<1	1:1	10	ephemeral	scrub, chaparral	no	estimated using Google
24G	9/10/2013		San Bernardino	477802.957	3766376.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
24H	9/10/2013		San Bernardino	477904.564	3766330.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
30A	3/12/2013		San Bernardino	477579.524	3768162.9	San Timoteo Creek	yes	yes	no	yes		M	water	20--75	20--75	1--15	1:1	10	perennial	lack veg	no	concrete channel; flowing water; San Timoteo Creek
34A	3/12/2013		San Bernardino	478325.954	3769460.4	San Timoteo Creek	yes	yes	no	yes		A	OHWM	20--40	20--40	2--10	1:1	<10	perennial	lack veg	no	Mission Channel; riprap channel with surface drain that goes under road; has side drain as well
35A	3/12/2013		San Bernardino	478360.393	3770126.2	N/A	no	no	no	yes		M	OHWM, vegetation	15	15	<1	1:2	20	perennial	riparian veg	yes	low point in agricultural field, collects agricultural runoff including 36A
35B	3/12/2013		San Bernardino	478358.944	3769973.6	N/A	no	no	no	yes		A	OHWM	5	5	1	0:1	30	ephemeral	lack veg	no	roadside drainage; paved
35C	3/12/2013		San Bernardino	478358.571	3769958.2	N/A	no	no	no	yes		A	OHWM	<3	<3	1	0:1	30	ephemeral	lack veg	no	agricultural runoff drain
36A	3/12/2013		San Bernardino	478358.591	3770319.9	N/A	no	no	no	yes		M	OHWM, water, vegetation,	3	3--60	1	0:1	10	open water	riparian veg	yes	agricultural drain that feeds into cobble-lined catchment basins with open water; basins feed into 35A outside of buffer
37A	3/6/2013	2994S	San Bernardino	477802.808	3770872	Santa Ana River	yes	yes	no	yes		M	OHWM	1--2	3--5	1	1:2	<10	ephemeral	lack veg	no	unconfined, loam; drains adjacent gravel and paved areas; south end confined, asphalt - drains into storm drain
39A	3/12/2013		San Bernardino	478923.43	3770753.6	N/A	no	no	no	yes		A	OHWM	15--50	15--50	2--8	1:1	<10	ephemeral	lack veg	no	terminates into big basin
39B	3/12/2013		San Bernardino	479149.915	3770752.2	N/A	no	no	no	yes		A	OHWM	100	100	<2	2:1	<10	ephemeral	lack veg	no	catchment basin on opposite side of street from 39A
40A	3/12/2013		San Bernardino	479660.189	3770842.9	N/A	no	no	no	yes		A	OHWM	75	75	<2	2:1	<10	ephemeral	lack veg	no	commercial catchment basin
40B	3/12/2013		San Bernardino	479350.472	3770855.6	N/A	no	no	no	yes		A	OHWM	75	75	<2	2:1	<10	ephemeral	lack veg	no	commercial catchment basin
41A	3/12/2013		San Bernardino	479941.267	3770586.1	N/A	no	no	no	yes		N	OHWM	1	1	1	1:1	0	ephemeral	grass	no	roadside drainage

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Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHW Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
44A	3/12/2013		San Bernardino	479975.138	3769608.6	N/A	no	no	no	yes		A	OHWM	3	3	1	1:1	0	ephemeral	lack veg	no	concrete V-ditch
44B	3/12/2013		San Bernardino	479895.418	3769518.2	N/A	no	no	no	yes		A	OHWM	8	8	4	1:1	0	ephemeral	lack veg	no	concrete V-ditch
47A	3/12/2013		San Bernardino	480128.285	3768367.6	San Timoteo Creek	yes	yes	no	yes		M	OHWM	25--50	25--50	2--10	0:1	0	perennial	lack veg	no	Mission Channel
48A	3/12/2013		San Bernardino	480305.544	3768035.9	San Timoteo Creek	yes	yes	yes	yes		N	OHWM, vegetation	12--30	12--30	3--10	1:1	0	perennial	riparian veg	yes	feeds into Mission Channel
49A	3/12/2013		San Bernardino	480301.907	3767768.2	N/A	no	no	no	yes		A	OHWM	15	15	<2	0:1	0	ephemeral	grass	no	parking lot catchment basin
51A	3/5/2013		San Bernardino	478260.695	3765250.9	Santa Ana River	yes	yes	no	yes		N	partial OHWM	2	2	1	0:1	20	ephemeral	scrub	no	OHWM begins middle of buffer, north is a swale
51B	9/10/2013		San Bernardino	478211.923	3765387.6	Santa Ana River	yes	yes	no	yes		N	OHWM	4--20	4--20	1--3	0:1	60	ephemeral	ruderal, scrub	no	estimated using Google
51C	9/10/2013		San Bernardino	478366.713	3765636.3	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
51D	9/10/2013		San Bernardino	478435.322	3765591.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
53A	3/4/2013	14I	San Bernardino	478714.906	3765019.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	4	18	3--4	0:1	10	ephemeral	ruderal, scrub	no	break banks, flowlines separate, shelving, drift, deep and vertical
53B	3/4/2013	15I, 16I	San Bernardino	478741.593	3765050.2	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	10	3--4	0:1	10	ephemeral	ruderal, scrub	no	break banks, flowlines separate, shelving, drift, deep and vertical
53C	3/4/2013	17I	San Bernardino	478903.021	3765401.5	N/A	no	no	no	no	swale	N	N/A	<1	2	<1	<1:1	20	ephemeral	ruderal, scrub	no	assessed from top
53D	3/4/2013		San Bernardino	478992.372	3765402	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	large swale 100 ft wide at top
53E	3/4/2013	18I	San Bernardino	478867.152	3765419.3	San Timoteo Creek	yes	yes	no	yes		M	OHWM	11	11	<1	0:1	10	ephemeral	ruderal, scrub	no	incised 2-4 ft, "river"; bare with some small cobble
53F	3/4/2013		San Bernardino	479008.318	3765331.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
53G	3/4/2013		San Bernardino	478991.946	3765298.8	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	<1	1:1	90	ephemeral	ruderal, scrub	no	narrow
53H	9/10/2013		San Bernardino	478755.270	3765054.9	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3--10	3--10	3--4	0:1	10	ephemeral	ruderal, scrub, chaparral	no	connects to 40A (2012), estimated using Google
53I	9/10/2013		San Bernardino	478651.116	3765151.0	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub, chaparral	no	connects to 40A (2012), estimated using Google
53J	9/10/2013		San Bernardino	478732.419	3765074.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	connects to 40A (2012), estimated using Google
53K	9/10/2013		San Bernardino	478562.589	3765524.8	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3--5	3--5	<1	1:1	10	ephemeral	scrub, chaparral	no	estimated using Google
53L	9/10/2013		San Bernardino	478895.253	3765374.2	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--4	2--4	<1	1:1	10	ephemeral	scrub, chaparral	no	estimated using Google
53M	9/10/2013		San Bernardino	478920.616	3765313.3	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
55A	3/4/2013		San Bernardino	479659.677	3764951.6	N/A	no	no	no	no	swale	N	N/A	2	4	2	1:1	10	ephemeral	ruderal, scrub	no	uplands and drain appear same; daylights/ground rises; might flow onto road; lots of gopher holes

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55B	3/4/2013		San Bernardino	479579.283	3764945.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
56A	3/4/2013		San Bernardino	479941.49	3764807.3	N/A	no	no	no	no	rill	N	N/A	1	1	1	0:1	10	ephemeral	scrub	no	rill from paved road
56B	9/10/2013		San Bernardino	479974.182	3764477.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
57A	3/4/2013		San Bernardino	480003.156	3764175.8	San Timoteo Creek	yes	yes	no	yes		A	OHWM	2--6	2--6	<1	0:1	<10	ephemeral	ruderal, scrub	no	excavated road like channel to no where
57B	3/4/2013		San Bernardino	480041.786	3764250.3	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
57C	9/10/2013		San Bernardino	480128.495	3764535.0	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
57D	9/10/2013		San Bernardino	480173.376	3764478.8	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--4	4--10	1	0:1	80	ephemeral	ruderal, scrub	no	metal culvert off of access road; estimated using Google
57E	9/10/2013		San Bernardino	480266.179	3764494.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	scrub, chaparral	no	estimated using Google	
57F	9/10/2013		San Bernardino	480298.701	3764433.6	N/A	no	no	no	no	swale	N	N/A					ephemeral	scrub, chaparral	no	estimated using Google	
57G	9/10/2013		San Bernardino	480362.528	3764410.3	N/A	no	no	no	no	swale	N	N/A					ephemeral	scrub, chaparral	no	estimated using Google	
58A	9/10/2013		San Bernardino	480416.997	3764321.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
58B	9/10/2013		San Bernardino	480508.944	3764311.8	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
58C	9/10/2013		San Bernardino	480529.414	3764280.4	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6--8	8--80	1--3	0:1	100	ephemeral	scrub, chaparral	no	estimated using Google
58D	9/10/2013		San Bernardino	480697.661	3764226.6	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	3--8	1--2	0:1	80	ephemeral	scrub, chaparral	no	estimated using Google
58E	9/10/2013		San Bernardino	480732.863	3764222.1	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2--3	2--3	1	0:1	80	ephemeral	scrub, chaparral	no	estimated using Google
58F	9/10/2013		San Bernardino	80717.909	3764197.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
60A	3/5/2013		San Bernardino	481452.92	3764374.1	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no		
60B	3/5/2013		San Bernardino	481455.434	3764336.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no		
60C	3/5/2013	131302G	San Bernardino	481236.062	3764026.3	N/A	no	no	no	yes		M	OHWM	10	>150	3--<1	0:1	<10	ephemeral	scrub	no	estimated because hard to access; terminated into flat landfill property
60D	3/5/2013		San Bernardino	481330.472	3764019.6	N/A	no	no	no	yes		M	OHWM	10	>100	5--<1	0:1	<10	ephemeral	scrub	no	estimated because hard to access; terminated into flat landfill property
61A	3/5/2013	090601G	San Bernardino	480949.481	3763483.5	N/A	no	no	no	yes		M	OHWM	17	17	1--2	0:1	10	ephemeral	ruderal, scrub	no	large drainage is bulldozed at outlet by landfill; upland
61B	3/5/2013	092252G	San Bernardino	481063.817	3763515.8	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	swale into landfill	
61C	3/5/2013	092435G	San Bernardino	481069.023	3763469.2	N/A	no	no	no	no	rill	N	N/A					ephemeral	ruderal, scrub	no	rill terminates into landfill	

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
61D	3/5/2013	092829G	San Bernardino	481106.627	3763386.7	N/A	no	no	no	yes		N	OHWM	3	3	1	0:1	<10	ephemeral	ruderal, scrub	no	
61E	3/5/2013		San Bernardino	481169.309	3763339.6	N/A	no	no	no	yes		N	OHWM	3	2	2--4	0:1	80	ephemeral	ruderal, scrub	no	
61F	3/5/2013		San Bernardino	481163.87	3763326.2	N/A	no	no	no	yes		N	OHWM	4	4	4	0:1	10	ephemeral	ruderal, scrub	no	
61G	3/5/2013		San Bernardino	481162.875	3763386.6	N/A	no	no	no	yes		N	OHWM	2	2	1	0:1	80	ephemeral	ruderal, scrub	no	
61H	3/5/2013		San Bernardino	481128.384	3763414.1	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
61I	3/5/2013		San Bernardino	481114.346	3763421.2	N/A	no	no	no	yes		N	OHWM	3	3	1	0:1	100	ephemeral	ruderal, scrub	no	
61J	3/5/2013		San Bernardino	2/19/3217	3763426.3	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
61K	3/5/2013		San Bernardino	481420.333	3763986.7	N/A	no	no	no	yes		N	OHWM	10	>150	3--<1	0:1	<10	ephemeral	ruderal, scrub	no	estimated because hard to access; terminated into flat landfill property
61L	3/5/2013		San Bernardino	481486.846	3763905.6	N/A	no	no	no	yes		N	OHWM	8	2--30	1--5	0:1	40	ephemeral	ruderal, scrub	no	estimated because hard to access; terminated into flat landfill property
61M	3/5/2013		San Bernardino	481474.428	3764132.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
61N	3/5/2013		San Bernardino	481201.157	3763446.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
61O	3/5/2013		San Bernardino	481201.993	3763420.9	N/A	no	no	no	yes		N	OHWM	4	4	4	0:1	60	ephemeral	ruderal, scrub	no	
61P	3/5/2013		San Bernardino	481173.42	3763368.3	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
61Q	9/10/2013		San Bernardino	480895.011	3763672.0	N/A	no	no	no	yes		N	OHWM	1--3	1--3	<1	1:1	100	ephemeral	ruderal, scrub	no	estimated using Google
61R	9/10/2013		San Bernardino	481133.443	3763794.9	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61S	9/10/2013		San Bernardino	481133.917	3763772.4	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61T	9/10/2013		San Bernardino	481130.188	3763733.0	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61U	9/10/2013		San Bernardino	481122.184	3763644.9	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61V	9/10/2013		San Bernardino	481115.669	3763619.4	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61W	9/10/2013		San Bernardino	481112.460	3763599.3	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61X	9/10/2013		San Bernardino	481078.131	763555.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61Y	9/10/2013		San Bernardino	81428.157	3763772.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
61Z	9/10/2013		San Bernardino	481491.807	3763813.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
62A	3/5/2013	101921G	San Bernardino	481302.835	3763185.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	swale that leads to drainage outside of buffer

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)
62B	3/5/2013		San Bernardino	481376.417	3763112	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
62C	3/5/2013		San Bernardino	481367.424	3763158.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
62D	3/5/2013		San Bernardino	481454.95	3763117.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
62E	3/5/2013		San Bernardino	481476.504	3763124.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
62F	3/5/2013		San Bernardino	481512.074	3763159.3	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	rill that leads into a swale outside of buffer
62G	3/5/2013	110101G	San Bernardino	481521.399	3763252.2	N/A	no	no	no	yes		N	OHWM	5	5	3	0:1	<10	ephemeral	ruderal, scrub	no	confined
62H	3/5/2013		San Bernardino	481478.571	3763282.6	N/A	no	no	no	yes		N	OHWM	5	5	4	0:1	<10	ephemeral	ruderal, scrub	no	
63A	3/5/2013	122832G	San Bernardino	481872.869	3763563.1	N/A	no	no	no	no	swale	M	N/A						ephemeral	scrub	no	build rims to protect waterway; drains into sheetflow, which then drains into agriculture wash; burrow with whitewash near road
63B	3/5/2013	115018G	San Bernardino	481932.55	3763565.3	N/A	no	no	no	no	swale, rill	M	N/A						ephemeral	scrub	no	build rims to protect waterway; drains into sheetflow into wash
63C	3/5/2013	113200G	San Bernardino	482021.512	3763503	San Timoteo Creek	yes	yes	no	yes		N	OHWM	1	1	2	0:1	100	ephemeral	ruderal	no	confined; leads into big wash (63D)
63D	3/5/2013	113239G	San Bernardino	482027.99	3763480.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	20	70	5	0:1	0	ephemeral	ruderal	no	big wash; low flow channel south with alluvial terrace
63E	3/5/2013	23O (G)	San Bernardino	482349.56	3763827.2	San Timoteo Creek	yes	yes	no	yes		N	OHWM	5	5	<1	0:1	0	ephemeral	ruderal	no	runs into road bend
63F	3/5/2013		San Bernardino	482455.184	3764107	San Timoteo Creek	yes	yes	no	yes		M	OHWM	6	6	2	0:1	0	ephemeral	ruderal	no	roadside ditch
63G	3/5/2013		San Bernardino	482472.054	3764219.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
63H	3/5/2013	24C (G)	San Bernardino	482373.214	3763990.7	N/A	no	no	no	yes		N	OHWM	7	7	1	0:1	0	ephemeral	ruderal	no	runs through ranch
63I	3/5/2013		San Bernardino	482394.733	3763865.8	San Timoteo Creek	yes	yes	no	yes		M	OHWM	5	5	<1	0:1	0	ephemeral	ruderal	no	roadside ditch; goes underground at San Timoteo Creek Road; drain culvert at one end
63J	3/5/2013		San Bernardino	482284.707	3763696.3	San Timoteo Creek	yes	yes	no	yes		M	OHWM	5	5	2	0:1	0	ephemeral	ruderal	no	roadside ditch
64A	3/5/2013		San Bernardino	482293.692	3763372.2	San Timoteo Creek	yes	yes	no	yes		M	OHWM	4	4	2	0:1	0	ephemeral	ruderal	no	roadside ditch
64B	3/6/2013		San Bernardino	482040.267	3762931.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
64C	3/6/2013		San Bernardino	482181.586	3762842.1	San Timoteo Creek	yes	yes	no	yes		N	OHWM	4	>150	2--4	0:1	<10	ephemeral	scrub	no	large drainage; braided stream; 3 OHWMs; connects to 65F
64D	9/10/2013		San Bernardino	482147.323	3763033.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google

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Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
64E	9/10/2013		San Bernardino	482127.683	3763000.2	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
65A	3/5/2013		San Bernardino	482658.887	3763101.7	N/A	no	no	no	yes		N	OHWM	4	4	1--2	0:1	100	ephemeral	ruderal	no	
65B	3/5/2013		San Bernardino	482736.345	3763082.3	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no		
65C	3/6/2013		San Bernardino, Riverside	482314.578	3762484.7	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6	6	3--4	0:1	<10	ephemeral	scrub	no	runs through private property; connects to 63I
65D	3/6/2013		San Bernardino, Riverside	482387.269	3762673.8	N/A	no	no	no	yes		N	OHWM	2	2	<1	0	20	ephemeral	ruderal	no	shares the mouth of the canyon with 65I
65E	3/6/2013		San Bernardino, Riverside	482346.741	3762621	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3	3	2	0:1	<10	ephemeral	scrub	no	fenceline drainage; connects to 65F which connects to 63I
65F	9/10/2013		San Bernardino	482525.610	3763015.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
65G	9/10/2013		San Bernardino	482564.545	763005.2	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
65H	9/10/2013		San Bernardino	482606.307	3762989.3	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
66A	3/5/2013		San Bernardino	482833.635	3763092	N/A	no	no	no	yes		M	OHWM	2	2	1	0:1	0	ephemeral	scrub	no	roadside ditch
66B	3/5/2013		San Bernardino	482816.91	3763037.8	N/A	no	no	no	yes		N	OHWM	14	14	7	0:1	0	ephemeral	scrub	no	cement culvert at road crossing
66C	3/5/2013		San Bernardino	482940.279	3762978.3	N/A	no	no	no	yes		M	OHWM	2	2	4	0:1	40	ephemeral	scrub	no	
66D	3/5/2013		San Bernardino	482960.135	3762964.1	N/A	no	no	no	yes		N	OHWM	4	4	2	0:1	40	ephemeral	scrub	no	
66E	3/5/2013		San Bernardino	482999.002	3762890.1	N/A	no	no	no	yes		N	OHWM	3	3	2	0:1	100	ephemeral	scrub	no	
66F	3/6/2013		Riverside	482476.905	3762297	N/A	no	no	no	no	rill	N	N/A					ephemeral	scrub	no	goes into road	
66G	9/10/2013		Riverside	482849.755	3762843.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
66H	9/10/2013		Riverside	482897.591	3762883.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
66I	9/10/2013		Riverside	482951.655	762813.1	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
67A	3/6/2013		Riverside	483001.528	3762160.6	N/A	no	no	no	no	swale	N	N/A					ephemeral	scrub	no		
67B	3/6/2013		San Bernardino	483498.513	3763222.7	N/A	no	no	no	yes		M	OHWM	<1	<1	<1	2:1	0	ephemeral	scrub	no	drainage in orchard
67C	3/6/2013		Riverside	482976.204	3762216.3	N/A	no	no	no	yes		N	OHWM	8	8	1	0:1	90	ephemeral	scrub	no	
67D	3/6/2013		Riverside	482945.513	3762344.6	N/A	no	no	no	yes		N	OHWM	4	4	4	2:1	40	ephemeral	scrub	no	
67E	3/6/2013		Riverside	482966.679	3762333.2	N/A	no	no	no	yes		N	OHWM	4	4	<1	0:1	40	ephemeral	scrub	no	
67F	3/6/2013		Riverside	483028.547	3762283.4	N/A	no	no	no	yes		N	OHWM	5	5	1--2	0:1	20	ephemeral	scrub	no	
67G	9/11/2013		Riverside	483071.869	3762151.3	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	
68A	3/6/2013		Riverside	483629.852	3763118.5	N/A	no	no	no	yes		N	OHWM	2	15	<1	0:1	20	ephemeral	ruderal, scrub	no	sheetflow into road
68B	3/6/2013		Riverside	483504.084	3762610.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no	runs into road and private property	
68C	3/6/2013		Riverside	483435.289	3762649	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no		
68D	9/11/2013		Riverside	483206.315	3762266.5	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no	estimated using Google	

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68E	9/11/2013		Riverside	483502.914	3762468.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
69A	3/6/2013		Riverside	484162.974	3763011.7	N/A	no	no	no	yes		M	OHWM	7	15	1--5	0:1	0	ephemeral	ruderal	no	
69B	3/6/2013		Riverside	483868.926	3762776.1	N/A	no	no	no	yes		M	OHWM	4	4	3	0:1	0	ephemeral	ruderal	no	runs into private property
69C	3/6/2013		Riverside	483864.708	3762668.6	N/A	no	no	no	yes		N	OHWM	2	2	<1	2:1	0	ephemeral	ruderal	no	roadside drainage, runs into private property
70A	3/6/2013		Riverside	484063.686	3762233.1	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	rill terminates into field
70B	3/6/2013		Riverside	484530.137	3762650.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	riparian veg: willows	yes	swale out of drain under train tracks; potentially would be a drainage if area was not graded so much
70C	9/11/2013		Riverside	483805.969	3761927.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
71A	3/6/2013		Riverside	484639.825	3762379.3	San Timoteo Creek	yes	yes	no	yes		A	OHWM	10	10	2	0:1	0	ephemeral	lack veg	no	runs through orchard
71B	3/6/2013		Riverside	485017.54	3762005.8	San Timoteo Creek	yes	yes	yes	yes		N	OHWM, vegetation	50	100	1--12	0:1	0	perennial	riparian veg: willows	yes	San Timoteo Creek; Riparian vegetation also in Grids 72 and 73
72A	3/6/2013		Riverside	484465.56	3761389.5	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	terminates into farmland
72B	3/6/2013		Riverside	484513.766	3761363.3	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
72C	3/6/2013		Riverside	484545.541	3761300.9	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
72D	3/6/2013		Riverside	484558.363	3761224	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
72E	3/6/2013		Riverside	484540.404	3761208.3	San Timoteo Creek	yes	yes	no	yes		N	OHWM	5	3	3	1:1	100	ephemeral	ruderal, scrub	no	
73A	3/6/2013		Riverside	484695.202	3760818.5	N/A	no	no	no	yes		N	OHWM	4	4	2	0:1	80	ephemeral	ruderal, scrub	no	
73B	3/6/2013		Riverside	484641.008	3761060.2	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	drainage portion outside of buffer
73C	3/6/2013		Riverside	484601.239	3760990.7	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	joins with 73D into graded flat valley
73D	3/6/2013		Riverside	484605.897	3760932.6	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	joins with 73C into graded flat valley
73E	9/11/2013		Riverside	484876.782	3761238.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
73F	9/11/2013		Riverside	484875.597	3761215.0	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	estimated using Google
74A	3/6/2013		Riverside	485213.439	3761609.8	San Timoteo Creek	yes	yes	no	yes		M	OHWM	4--10	8--20	3--15	0:1	<80	perennial	ruderal	no	data was taken for the drainage on both sides of San Timoteo Creek Road
74B	3/6/2013		Riverside	484740.525	3760812.3	N/A	no	no	no	yes		N	OHWM	1	1	1	0:1	90	ephemeral	ruderal, scrub	no	
74C	3/6/2013		Riverside	484812.407	3760846.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
74D	3/6/2013		Riverside	484935.477	3760826.6	N/A	no	no	no	yes		N	OHWM	4	4	4	0:1	90	ephemeral	ruderal, scrub	no	
74E	3/6/2013		Riverside	484919.636	3760896.3	N/A	no	no	no	yes		N	OHWM	2	2	1	0:1	100	ephemeral	ruderal, scrub	no	
74F	3/6/2013		Riverside	484945.089	3760919.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
74G	3/6/2013		Riverside	484945.203	3760944.5	N/A	no	no	no	yes		N	OHWM	1	1	1	0:1	100	ephemeral	ruderal, scrub	no	
74H	3/7/2013		Riverside	485157.266	3760898.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
74I	9/11/2013		Riverside	484904.556	3761159.1	N/A	no	no	no	yes		N	OHWM	1--3	1--3	<1	1:1	90	ephemeral	ruderal, scrub, chaparral	no	estimated using Google
75A	3/7/2013		Riverside	485819.35	3761373.8	San Timoteo Creek	yes	yes	no	yes		N	OHWM	9	25	2--5	0:1	<10	ephemeral	ruderal, scrub	no	
75B	3/7/2013		Riverside	485202.053	3760898.7	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
75C	3/7/2013		Riverside	485222.485	3760947.1	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
75D	3/7/2013		Riverside	485388.975	3760863.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHW/M Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
76A	3/7/2013		Riverside	485550.349	3760756.1	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
76B	3/7/2013		Riverside	485573.311	3760683.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
76C	3/7/2013		Riverside	485522.413	3760660.4	N/A	no	no	no	yes		N	OHWM	4	6	2	1:1	10	ephemeral	ruderal, scrub	no	
76D	3/7/2013		Riverside	485560.234	3760602.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
76E	3/7/2013		Riverside	485587.945	3760549.3	N/A	no	no	no	yes		N	OHWM	5	5	3	0:1	20	ephemeral	ruderal, scrub	no	
76F	3/7/2013		Riverside	485625.142	3760550.2	N/A	no	no	no	no	rill	N	N/A					ephemeral	ruderal, scrub	no	roadside drain	
76G	3/7/2013		Riverside	485657.717	3760578.9	San Timoteo Creek	yes	yes	no	yes		N	OHWM	10	10	1	0:1	0	ephemeral	ruderal, scrub	no	
76H	3/7/2013		Riverside	485765.122	3760576	N/A	no	no	no	no	rill	N	N/A					ephemeral	ruderal, scrub	no	roadside drain	
76I	3/7/2013		Riverside	485817.189	3760588.6	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
76J	3/7/2013		Riverside	485820.222	3760583.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
76K	3/7/2013		Riverside	485760.617	3760545.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
77A	3/7/2013		Riverside	486160.919	3760907.9	N/A	no	no	no	yes		M	OHWM	2	2	1	0:1	90	ephemeral	ruderal, scrub	no	road acts as drainage, runs across San Timoteo Creek Road into culvert
77B	3/7/2013		Riverside	486386.748	3760915.1	San Timoteo Creek	yes	yes	yes	yes		N	OHWM, vegetation	15	100	2--9	0:1	<10	perennial	riparian veg: willows	yes	portion of creek within buffer; San Timoteo Creek, upper Aluv terrace; estimated
78A	3/7/2013		Riverside	486464.691	3760196.6	N/A	no	no	no	no	swale	M	N/A					ephemeral	ruderal	no	manipulated berms; debris	
78B	3/7/2013		Riverside	486672.844	3760629	N/A	no	no	no	yes		N	OHWM	2	2	1	1:1	<10	ephemeral	ruderal	no	
80A	3/7/2013		Riverside	487097.942	3760478.1	San Timoteo Creek	yes	yes	no	yes		N	OHWM, vegetation	5--100	5--300	2--12	0:1	<10	perennial	riparian veg	yes	San Timoteo Creek
80B	9/11/2013		Riverside	486925.018	3760044.6	N/A	no	no	no	no	swale	M	N/A					ephemeral	ruderal, scrub, chaparral	no	estimated using Google	
81A	3/7/2013		Riverside	487317.395	3760413.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	10	30	2--5	0:1	<10	ephemeral	ruderal	no	
82A	3/7/2013, 4/25/2013	3039S, 3040S	Riverside	487763.005	3760135	San Timoteo Creek	yes	yes	no	yes		M	OHWM	3	10	1--5	1:0	<40	ephemeral	chaparral, ruderal	no	ditch from house present at south end behind poultry farm, artificial, width 1 ft, depth 1-4 ft, bare
82B	4/25/2013		Riverside	487680.652	3760189.9	N/A	no	no	no	no	swale	N	N/A					ephemeral	chaparral, ruderal	no		
83A	3/7/2013		Riverside	488164.233	3760135.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no	with culvert that goes under the railway but doesn't show flow through to other side	
84A	3/7/2013		Riverside	488452.366	3759996.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal	no	private property; bermed area	
84B	3/7/2013		Riverside	488568.78	3760024.7	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	3	0:1	<10	ephemeral	ruderal, scrub	no	cement culvert into drainage
84C	3/7/2013		Riverside	488646.976	3760027.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3	3	1	0:1	<10	ephemeral	ruderal, scrub	no	
84D	4/25/2013	3038S, 3042S	Riverside	488320.724	3759875.7	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, scrub	no		
85A	3/7/2013		Riverside	488937.013	3760081.3	San Timoteo Creek	yes	yes	no	yes		N	OHWM	8	3	10--12	0:1	10	ephemeral	ruderal, scrub	no	
86A	9/11/2013		Riverside	489257.642	3759584.4	N/A	no	no	no	no	swale	N	N/A					ephemeral	ruderal, chaparral	no	estimated using Google	

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning)	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
87A	3/7/2013		Riverside	489640.539	3759915.1	San Timoteo Creek	yes	yes	yes	yes		N	OHWM, vegetation	100	100	15	0:1	<10	perennial	riparian veg: willows	yes	area given only includes area within buffer; San Timoteo Creek; large side tributary feeds into creek in this section
87B	3/7/2013		Riverside	489471.553	3759577.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
87C	3/7/2013		Riverside	489499.074	3759580.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
87D	3/7/2013		Riverside	489553.572	3759563.4	San Timoteo Creek	yes	yes	no	yes		N	OHWM	2	2	4	1:1	20	ephemeral	scrub	no	
88A	3/7/2013		Riverside	489668.497	3759731.7	San Timoteo Creek	yes	yes	no	yes		N	OHWM	6	6	3	0:1	<10	ephemeral	scrub	no	
88B	3/7/2013		Riverside	489929.256	3759585.4	San Timoteo Creek	yes	yes	no	yes		M	water	570	570				open water	chaparral, ruderal	no	El Casco Lake, east bermed water basin
89A	3/7/2013		Riverside	490095	3759564.2	San Timoteo Creek	yes	yes	no	yes		A	water	600	600				open water	chaparral, ruderal	no	El Casco Lake; west bermed water basin
89B	3/7/2013		Riverside	490209.575	3759555.1	San Timoteo Creek	yes	yes	yes	yes		A	OHWM, vegetation	10	10	3	1:1	<10	ephemeral	wetland, scrub	yes	connects to 89D; contains potential USACE wetland north of railroad and south of San Timoteo Creek Road.
89C	3/7/2013		Riverside	490271.397	3759583.3	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	roadside drainage with corrugated pipe at east end under private driveway but still not OHWM
89D	3/7/2013		Riverside	490060.488	3759624.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	roadside drainage; connects to 89B
90A	3/7/2013		Riverside	490977.305	3759416.6	San Timoteo Creek	yes	yes	yes	yes		N	OHWM, vegetation	75--110	75--110	10-15	0:1	10	perennial	riparian veg: willows	yes	area given only includes area within buffer; San Timoteo Creek
90B	3/7/2013		Riverside	490514.5	3759174.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	9	9	3	1:1	<10	ephemeral	ruderal, scrub	no	has been dozed
91A	3/7/2013		Riverside	490896.851	3759381.1	San Timoteo Creek	yes	yes	no	yes		A	OHWM	3	3	2	1:1	40	ephemeral	chaparral	no	flows into 91B
91B	3/7/2013		Riverside	491012.448	3759292.4	San Timoteo Creek	yes	yes	no	yes		A	water	420	420				open water	chaparral	no	reservoir; bermed water basin
92A	3/7/2013		Riverside	490751.272	3758559.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	swale with fill and dumping
92B	3/7/2013		Riverside	491317.071	3759212.3	San Timoteo Creek	yes	yes	no	yes		A	water	1260	1260				open water	chaparral	no	reservoir; bermed water basin
93A	3/7/2013		Riverside	491794.639	3759303.5	N/A	no	no	no	yes		M	OHWM	8	8	5	1:1	<10	ephemeral	ruderal	no	riprap channel under bridge
93B	3/7/2013		Riverside	491641.872	3759341.5	San Timoteo Creek	yes	yes	no	yes		N	OHWM	7	7	3	1:1	<10	ephemeral	ruderal, scrub	no	
93C	9/11/2013		Riverside	491230.637	3758390.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
94A	3/7/2013		Riverside	491703.527	3758666.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
95A	3/7/2013		Riverside	492087.656	3758735.8	San Timoteo Creek	yes	yes	no	yes		N	OHWM	10	18	3--7	0:1	<10	ephemeral	ruderal, scrub	no	
95B	3/7/2013		Riverside	492470.041	3758845.5	San Timoteo Creek	yes	yes	no	yes		A	OHWM	1	1	1	1:1	<10	ephemeral	ruderal	no	
95C	3/7/2013		Riverside	492476.355	3758834.5	San Timoteo Creek	yes	yes	no	yes		A	OHWM	4	4	4	1:1	<10	ephemeral	lack veg	no	concrete

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)
97A	3/7/2013		Riverside	492769.678	3759124.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
97B	3/7/2013		Riverside	492479.575	3757843.3	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
97C	9/11/2013		Riverside	492338.253	3758007.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
97D	9/11/2013		Riverside	492451.181	3757931.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
98A	3/7/2013		Riverside	492929.264	3759029.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
98B	3/7/2013		Riverside	493111.541	3758951.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
98C	9/11/2013		Riverside	493093.541	3758026.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
101A	9/11/2013		Riverside	494207.506	3758551.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
122A	3/8/2013		Riverside	501429.836	3756367.3	N/A	no	no	no	yes		A	OHWM	1	1	<1	1:1	20	ephemeral	ruderal	no	paved roadside drainage
123A	3/8/2013		Riverside	501625.067	3757062.1	San Timoteo Creek	yes	yes	no	yes		N	OHWM	3	10	<-- 3	1:1	<10	ephemeral	scrub	no	drains to Noble Creek; culvert outlet at east end
128A	3/8/2013		Riverside	503303.701	3756996.8	N/A	no	no	no	yes		M	OHWM	2	2	1	1:1	<10	ephemeral	ruderal	no	cement culvert outlet at north end
129A	9/11/2013		Riverside	504071.473	3756579.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	estimated using Google
140A	3/8/2013		Riverside	507429.391	3756553	N/A	no	no	no	yes		N	OHWM	10	100	2-- 5	0:1	20	ephemeral	ruderal, scrub	no	
140B	3/8/2013		Riverside	507581.372	3756583.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
140C	3/8/2013		Riverside	507577.933	3756518.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
140D	3/8/2013		Riverside	507592.413	3756533.7	N/A	no	no	no	yes		N	OHWM	3	3	1	1:1	40	ephemeral	ruderal	no	
142A	3/8/2013		Riverside	508211.526	3755888	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
142B	3/8/2013		Riverside	508212.832	3755658.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
146A	3/8/2013		Riverside	509841.104	3756662.5	Smith Creek	yes	yes	no	yes		N	OHWM	2	3	1-- 8	1:1	100	ephemeral	chaparral	no	
146B	3/11/2013		Riverside	509779.851	3756007.1	N/A	no	no	no	no	rill	N	N/A						ephemeral	chaparral	no	roadside drainage (rill), discontinuous
146C	3/11/2013		Riverside	509796.372	3755974.9	N/A	no	no	no	no	rill	N	N/A						ephemeral	chaparral	no	erosion feature, sheetflow
146D	9/11/2013		Riverside	509733.881	3756129.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
146E	9/11/2013		Riverside	509748.744	3756111.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
146F	9/11/2013		Riverside	509763.450	3756088.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
146G	9/11/2013		Riverside	509770.586	3756047.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	estimated using Google
147A	3/8/2013		Riverside	509823.864	3756576.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral	no	
147B	3/8/2013		Riverside	509894.775	3756644.3	Smith Creek	yes	yes	no	yes		N	OHWM	4	7	1-- 3	1:1	10	ephemeral	chaparral	no	
147C	3/8/2013		Riverside	510146.848	3756776.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	
147D	3/11/2013		Riverside	509964.704	3755881.6	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	erosion feature, sheetflow
147E	3/11/2013		Riverside	509923.021	3755858.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
147F	3/11/2013		Riverside	509970.417	3755815.1	N/A	no	no	no	yes		N	OHWM	3	3	1	1:1	10	ephemeral	ruderal, scrub	no	
147G	3/11/2013		Riverside	510095.711	3755745.7	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal, scrub	no	
147H	3/11/2013		Riverside	510152.132	3755770.6	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	
147I	9/11/2013		Riverside	510204.525	3756045.9	Smith Creek	yes	yes	no	yes		N	OHWM	1--3	1--3	1	1:1	60	ephemeral	chaparral, scrub	no	drainage that feeds into 148C; estimated using Google
148A	3/11/2013		Riverside	510247.072	3756022.2	Smith Creek	yes	yes	no	yes		N	OHWM	1--6	1--6	<1- 2	0:1	40	ephemeral	chaparral, scrub	no	rill and drainage that feeds into 148C
148B	3/11/2013		Riverside	510283.647	3755973.2	Smith Creek	yes	yes	no	yes		N	OHWM	1--2	1--2	1	0:1	60	ephemeral	chaparral, scrub	no	connects to 148C

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial)	Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)
148C	3/11/2013		Riverside	510611.441	3755552.9	Smith Creek	yes	yes	yes	yes		N	water, vegetation	12--15	20	2--10	0:1	0		riparian veg	yes	Smith Creek, a main drainage with flowing water that ends into a catchment basin with a concrete open-box culvert
148D	3/11/2013		Riverside	510466.554	3755900.9	Smith Creek	yes	yes	no	yes		N	OHWM	3	3	3	1:1	10	ephemeral	chaparral, scrub	no	
148E	3/11/2013		Riverside	510461.654	3755856.1	Smith Creek	yes	yes	no	yes		N	OHWM	3	3	2	1:1	10	perennial	chaparral, scrub	no	
148F	3/11/2013		Riverside	510496.78	3755786.9	Smith Creek	yes	yes	no	yes		N	water						perennial	chaparral, scrub	no	depression with standing water
148G	3/11/2013		Riverside	510327.825	3755640.6	Smith Creek	yes	yes	no	yes		M	OHWM	3	3	1	0:1	10	ephemeral	chaparral, scrub	no	roadside drainage
148H	3/11/2013		Riverside	510193.795	3755644.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	
148I	3/11/2013		Riverside	510219.382	3755961.8	Smith Creek	yes	yes	yes	yes		N	OHWM, vegetation	12	20	2--10	0:1	0	ephemeral	riparian veg	yes	connects with 148C
148J	3/11/2013		Riverside	510332.368	3755974.5	Smith Creek	yes	yes	no	yes		N	OHWM	3	8	1--4	1:1	10	ephemeral	chaparral, scrub	no	connects with 148C
148K	3/11/2013		Riverside	510329.63	3755423.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	
148L	3/11/2013		Riverside	510282.853	3755462	N/A	no	no	no	yes		N	OHWM	2	20	2	1:1	20	ephemeral	chaparral, scrub	no	
148M	3/11/2013		Riverside	510374.533	3755546.6	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	
148N	3/11/2013		Riverside	510416.504	3755497.8	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	
148O	3/11/2013		Riverside	510473.852	3755529	Smith Creek	yes	yes	no	yes		N	OHWM	6	6	4	0:1	80	ephemeral	chaparral, scrub	no	leads into concrete basin (149A)
148P	3/11/2013		Riverside	510485.248	3755543.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	chaparral, scrub	no	leads into concrete basin (149A)
148Q	3/11/2013		Riverside	510478.618	3755591	Smith Creek	yes	yes	no	yes		N	OHWM	10	10	6	0:1	80	ephemeral	chaparral, scrub	no	
148R	3/11/2013		Riverside	510412.418	3755617	Smith Creek	yes	yes	no	yes		M	OHWM	3	3	2	0:1	20	ephemeral	chaparral, scrub	no	
148S	3/11/2013		Riverside	510395.103	3755630.6	Smith Creek	yes	yes	no	yes		M	OHWM	5	5	1	1:1	20	ephemeral	chaparral, scrub	no	
148T	3/11/2013		Riverside	510300.878	3755621.5	N/A	no	no	no	no	rill	N	N/A						ephemeral	chaparral, scrub	no	
149A	3/11/2013		Riverside	510694.242	3755479.5	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal	no	
153A	5/16/2013		Riverside	512475.649	3756007.4	N/A	no	no	no	yes		A	OHWM						perennial	lack veg	no	artificial plastic-lined basin with open water, within the mine area
154A	5/16/2013		Riverside	513393.91	3755121.5	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	6	<1-1	1:1	10	ephemeral	cobble, scrub	no	Culvert under Morongo Road
155A	5/16/2013		Riverside	514958.109	3754992.3	San Gorgonio River	yes	yes	no	yes		N	OHWM, vegetation	<1	30	<1-5	1:1	10	ephemeral	riparian veg: scale broom alliance	yes	
156A	5/16/2013		Riverside	514780.562	3755082.6	San Gorgonio River	yes	yes	no	yes		N	OHWM, vegetation	<1	30	<1-4	1:1	10	ephemeral	riparian veg: scale broom alliance	yes	feeds into 155A
156B	5/16/2013		Riverside	514857.7	3754926.5	N/A	no	no	no	no	inactive drainage feature	N	OHWM, vegetation						ephemeral	riparian veg: scale broom alliance	yes	
156C	5/16/2013		Riverside	514784.652	3754936.8	N/A	no	no	no	no	inactive drainage feature	N	OHWM, vegetation						ephemeral	riparian veg: scale broom alliance	yes	
157A	5/16/2013		Riverside	515443.953	3754811.1	San Gorgonio River	yes	yes	no	yes		N	OHWM, vegetation	2	450	<1-2	1:1	10	ephemeral	riparian veg: scale broom alliance	yes	San Gorgonio River, many braided channels within one large drainage path
158A	5/16/2013		Riverside	515545.963	3754882.4	San Gorgonio River	yes	yes	no	yes		N	OHWM	3	4	<1-1	1:1	10	ephemeral	cobble, scrub	no	connects to 155A
158B	5/16/2013		Riverside	515568.348	3754915.4	N/A	no	no	no	no	swale	N	N/A						ephemeral	cobble, scrub	no	

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
158C	5/16/2013		Riverside	515649.783	3754881	N/A	no	no	no	no	swale	N	N/A					ephemeral	cobble, scrub	no		
158D	5/16/2013		Riverside	515696.125	3754828.2	San Gorgonio River	yes	yes	no	yes		N	OHWM, vegetation	3	4	<1-1	1:1	10	ephemeral	riparian veg: scale broom alliance	yes	
178A	9/11/2013		Riverside	523891.551	3754651.6	San Gorgonio River	yes	yes	no	yes		N	OHWM	5--10	5--10	<1	1:1	10	ephemeral	cobble, scrub	no	estimated using Google
185A	3/4/2013		Riverside	526221.976	3754259.8	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	located on S side of road; stops before fenceline
185B	3/4/2013		Riverside	526242.402	3754264.6	San Gorgonio River	yes	yes	no	yes		N	OHWM						ephemeral	scrub	no	located on S side of road; rill that drains into 185C
185C	3/4/2013	679J	Riverside	526247.932	3754282.8	San Gorgonio River	yes	yes	no	yes		N	OHWM	0.5	10	1.5		10	ephemeral	scrub	no	cobbly/sandy; confined debris/driftlines
186A	3/4/2013	680J	Riverside	526716.68	3754436.8	N/A	no	no	no	no	swale	N	N/A	10					ephemeral	scrub	no	
187A	3/4/2013	681J	Riverside	527010.281	3754351.4	San Gorgonio River	yes	yes	no	yes		N	OHWM	1	11	2.5		10	ephemeral	scrub	no	sandy/cobbly; confined OHWM and debris
187B	3/4/2013	682J	Riverside	527133.297	3754390.7	N/A	no	no	no	no	swale	N	N/A	22	22	<1			ephemeral	scrub	no	
187C	3/4/2013		Riverside	527151.481	3754395.7	N/A	no	no	no	no	swale	N	N/A	26	26	<1			ephemeral	scrub	no	
187D	3/4/2013		Riverside	527164.204	3754407.4	N/A	no	no	no	no	swale	N	N/A	21	21	<1			ephemeral	scrub	no	
188A	3/4/2013		Riverside	527329.035	3754408.2	N/A	no	no	no	no	swale	N	N/A	12	12	<1			ephemeral	scrub	no	
189A	3/4/2013	683J	Riverside	527516.639	3754414.4	San Gorgonio River	yes	yes	no	yes		N	OHWM	10	20	3		10	ephemeral	scrub	no	sandy, confined
189B	3/4/2013		Riverside	527602.455	3754403.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
189C	3/4/2013		Riverside	527686.974	3754406.5	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	non-confined; large swale approximately 100 ft wide
194A	3/4/2013		Riverside	529349.796	3754778.1	N/A	no	no	no	no	swale	N	N/A						ephemeral	ruderal	no	non-confined
200A	9/11/2013		Riverside	531716.029	3754790.9	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	estimated using Google
200B	9/11/2013		Riverside	531733.528	3754813.0	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	estimated using Google
202A	3/5/2013	684J, 685J	Riverside	532296.579	3753988.3	N/A	no	no	no	no	rill	N	N/A	1	18	5		20	ephemeral	scrub	no	erosional feature; located south of road
202B	9/11/2013		Riverside			N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	estimated using Google
204A	3/5/2013	687J	Riverside	532927.305	3754934.7	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	erosional feature; starts at top of hillside; does not connect to anything, ends at large clearing; cobble sand
207A	3/5/2013	689J, 690J	Riverside	534025.799	3753622.9	Whitewater	yes	yes	no	yes		M	OHWM	3	61	4		<10	ephemeral	scrub	no	sandy; stars at road with asphalt V-ditch, turns into sheet flow, flows through 3 ft culvert, then spreads out and drains under the I-10
208A	3/5/2013	691J	Riverside	534324.931	3753706.9	N/A	no	no	no	no	rill	N	N/A	1	1	6			ephemeral	scrub	no	erosional feature; starts at one dirt road and ends at another; drains into roadway
208B	3/5/2013	692J	Riverside	534357.847	3753628.9	N/A	no	no	no	no	rill	N	N/A						ephemeral	scrub	no	erosional feature
221A	3/6/2013		Riverside	538977.249	3754844.7	N/A	yes	yes	no	yes		A	OHWM	1	1	4		<10	ephemeral	scrub	no	concrete lined channel that connects to large drainage; has a 4 ft high V-ditch

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning)	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
221B	3/6/2013	693J, 694J, 696J, 697J, 536W	Riverside	539240.243	3754980.8	San Gorgonio River	yes	yes	no	yes		N	OHWM	5--15	20--23	2--3	1:1	10	ephemeral	scrub	no	unconfined; drainage turns into road at south end of the project limits; sandy with debris/driftlines
221C	3/6/2013		Riverside	539289.751	3754828.2	N/A	no	no	no	no	swale	N	N/A						ephemeral	scrub	no	
222A	3/6/2013	695J, 3006S	Riverside	539311.966	3755164.8	N/A	no	no	no	yes		N	OHWM, shelving	1--2	2--4	1	2:1	<10	ephemeral	scrub	no	unconfined; sand; cuts off at fenced area
223A	3/6/2013	706J, 707J	Riverside	501115.456	3753604.6	San Timoteo Creek	yes	yes	no	yes		M	OHWM	8	24	25			ephemeral	chaparral, ruderal	no	drains to San Timoteo Creek; sandy loam with drift liners and debris; confined, 15 ft culvert
223B	3/6/2013		Riverside	501089.39	3753513	San Timoteo Creek	yes	yes	no	yes		M	OHWM	9	1	2			ephemeral	ruderal	no	roadside drainage that feeds larger drainage to the south; sandy loam; confined with debris
225A	3/6/2013	3002S	Riverside	501714.271	3753864.5	N/A	no	no	no	yes		A	OHWM	2	4	1	1:1	<10	ephemeral	ruderal	no	confined; gravel, asphalt, loam
225B	3/6/2013	3003S	Riverside	501857.682	3753803.1	N/A	no	no	no	yes		A	OHWM, water	2	5	1	1:1	<10	ephemeral	ruderal	no	roadside ditch that flows along field and into storm drain at S California Avenue; both confined and unconfined; ponding water
226A	3/6/2013	3000S	Riverside	501965.426	3753872.3	N/A	no	no	no	yes		A	OHWM	3	6	4	1:1	<1	ephemeral	riparian veg; willows(Gooding's), chinaberry	yes	confined; loam; drains into culvert beneath yard
226B	3/6/2013	705J	Riverside	501928.609	3753507.8	N/A	no	no	no	yes		N	OHWM	1	6	3			ephemeral	ruderal	no	sandy, confined, driftlines
226C	3/6/2013		Riverside	502138.3	3753434.7	N/A	no	no	no	yes		M	OHWM	2	2	2			ephemeral	ruderal	no	sandy loam, confined, driftlines
226D	3/6/2013	2999S	Riverside	501991.233	3753861.9	N/A	no	no	no	yes		A	OHWM	2	5	2	1:1	<1	ephemeral	ruderal	no	confined; loam; drains into culvert beneath yard
227A	3/6/2013		Riverside	502550.701	3753424.9	N/A	no	no	no	no	swale	N	N/A	10	10	<1			ephemeral	ruderal	no	
229A	3/6/2013	708J, 709J	Riverside	503123.642	3753427.7	N/A	no	no	no	yes		M	OHWM						ephemeral	ruderal	no	roadside drainage that has been graded so no OHWM; large culvert that flows underground; confined; sandy loam
229B	3/6/2013		Riverside	503285.866	3753506.3	N/A	no	no	no	yes		N	OHWM	5	30	12		<100	ephemeral	ruderal	no	sandy, confined with debris and driftlines; culvert
231A	3/6/2013	710J	Riverside	503837.596	3753436.2	N/A	no	no	no	yes		N, M	OHWM, vegetation	2--5	21--40	10--35		100	ephemeral	riparian veg; mule fat, willows	yes	sandy, confined, culvert
234A	3/6/2013		Riverside	504897.134	3753405.8	N/A	no	no	no	yes		M	OHWM, culvert	12	12	5		100	ephemeral	ruderal	no	roadside channel; sandy loam, confined
237A	3/6/2013		Riverside	504906.586	3752231.4	N/A	no	no	no	yes		M	OHWM, vegetation	8	8				ephemeral	riparian veg	yes	large mitigation riparian area; entirely fenced off, can't access
239A	3/6/2013		Riverside	504988.599	3751654.2	N/A	no	no	no	yes		N, M	OHWM, water, vegetation	2--10	12--30			<100	ephemeral	riparian veg	yes	large riparian area; confined, cobble/loamy
240A	3/6/2013		Riverside	504818.017	3751487.4	N/A	no	no	no	no	rill	N	N/A						ephemeral	ruderal, scrub	no	erosional feature

Table C: 2013 Summary of Preliminary Jurisdictional Drainage Assessment Findings for the West of Devers Upgrade Project

Drainage Number	Assessment Date	Photo Number	County	UTM	UTM	Nearest Major Tributary	Likely Corp Jurisdictional Status	Potential Corps Section 404 Nonwetland	Potential Corps Section 404 Wetland	Potential CDFG Section 1600-1616	Other Drainage Features: Swale, Rill, Inactive Drainage Feature etc.	Drainage Characteristics (N=natural, A=artificial, Reasoning	Width Corps (feet)	Width CDFG (feet)	OHWM Depth (feet)	Side Slope Ratio	Percent Gradient (%)	Hydrologic Regime	Biological Characteristics	Riparian Vegetation	Comments (blue = GIS needed; red = question)	
245A	3/6/2013	703J, 704J	Riverside	511398.022	3752096.8	San Gorgonio River	yes	yes	no	yes		N	OHWM	11	11	6--25		80	ephemeral	ruderal	yes	large floodplain, sandy; private property
247A	3/6/2013	701J	Riverside	510375.601	3751469.8	San Gorgonio River	yes	yes	no	yes		N	OHWM	250	250			80	ephemeral	ruderal	no	large floodplain; sandy; mostly private property with no trespassing, estimated width using Google

Legend (left to right):

- Drainage Number** – Identification number, which corresponds to the grid section location on the maps.
- Photo Number** – Photo number and the initial of the photographer (I= Ingri Quon, J = Jodi Ross-Borrego, G = Gin Ingram, S = Stan Spencer, W = Wendy Walters)
- UTM** – Approximate central Universal Transverse Mercator (UTM) coordinate of the drainage.
- Nearest Major Tributary** – The nearest tributaries to a traditional navigable water (TNW) are listed as follow: Santa Ana River, Reche Canyon, Mission Channel, San Timoteo Creek, San Timoteo Wash to the Pacific Ocean; and the San Gorgonio River, Whitewater River, Super Creek, Garnet Wash to the Salton Sea.
- Likely USACE Jurisdictional Status** – Summary column of USACE status. If the drainage is ultimately tributary to a TNW then the drainage is potentially USACE jurisdictional.
- Potential USACE Section 404 Nonwetland Drainage** – In most cases soil pits were not dug for the assessment, so the nonwetland status was estimated by either the lack of hydrophytic vegetation, or estimated lack of hydric soil indicators.
- Potential USACE Section 404 Wetland Drainage** – In most cases soil pits were not dug for the assessment, so the wetland status was estimated by the likelihood of the soil *having* hydric soil indicator(s).
- Potential CDFW Section 1600–1616 Drainage** – Any drainage feature that has evidence of water flow is potentially CDFW jurisdictional.
- Other Drainage Features** – These features are nonjurisdictional and include rills/gullies, swales, inactive drainage features, and a depressional feature.
- Drainage Characteristics** – Natural: Drainage with an earthen channel and little/no evidence of human disturbance; Manipulated: Former natural drainage with evidence of human disturbance (some grading and/or detention basins); Artificial: Human-made feature (concrete v-ditch, some detention basins).
- Reasoning** – If a drainage feature has evidence of water flow, then an Ordinary High Water Mark (OHWM) indicator may include benches, drift deposits, exposed root hairs, and/or change in particle size distribution. If the drainage features has no indicators of flow the feature is not considered a water body by the USACE and this column cell will have N/A.
- Width USACE** – Estimated width and average of the entire drainage’s OHWM in feet. In some cases there is a range if the drainage varies significantly.
- Width CDFW** – Estimated and averaged width of the entire drainages bank to bank in feet. In some cases there is a range if the drainage varies significantly.
- OHWM Depth** – Estimated and averaged depth in feet from the top of the USACE OHWM to the bottom of the drainage.
- Side Slope Ratio** – The estimated and averaged ratio of the side slope for the area of water flow.
- Percent Gradient** – The estimated and averaged gradient of the water flow path (rise over run) expressed in percent.
- Hydrologic Regime** – Ephemeral: Flows during and shortly after precipitation event; Intermittent: Flowing water during certain times of year (winter/spring, runoff from development); Perennial: Flowing water year-round during a typical year. Groundwater is the primary water source.
- Biological Characteristics** – Description of the vegetation type including if riparian vegetation is present and the dominant species.
- Riparian Vegetation** – CDFW typically takes jurisdiction over the area of riparian vegetation. Presence is indicated by yes or no.
- Comments** – Notes here may include miscellaneous observations, including the width of the low flow channel (LF) in feet, estimated width or depth of a swale/rill/etc. for informational purposes, and other notable drainage characteristics.

APPENDIX C

WETLAND DETERMINATION DATA FORMS – ARID WEST REGION

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WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: Riverside County Sampling Date: 8/30/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP 1
 Investigators: W. Walters, G. Ingram Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Man-made channel/drainage Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): Arid West/ Lat: 33.96889 Long: -117.07494 Datum: WG884
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)

Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____

Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes <u>x</u> No _____
Hydric soil present? Yes <u>x</u> No _____	
Wetland Hydrology present? Yes <u>x</u> No _____	
Remarks: Wetland site. Sample plot at edge of flowing water in man-made channel cut through what appears to be a wetland meadow area. Photo # 0704.	

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: 15x30)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>3</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percentage of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B)
1. <i>Salix lasiolepis</i>	40	y	FACW	
2. <i>Salix gooddingii</i>	15	y	FACW	
3.				
4.				
Total Cover: _____				Prevalence index worksheet Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = _____ FACW species _____ x 2 = _____ FAC species _____ x 3 = _____ FACU species _____ x 4 = _____ UPL species _____ x 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____
Sapling/Shrub Stratum (Plot size: 15x30) 1. <i>Typha latifolia</i> 50 Y OBL 2. 3. 4. 5.				
Total Cover: _____				
Herb Stratum (Plot size: 15x30) 1. <i>Nasturtium officinale</i> 3 N OBL 2. <i>Cynodon dactylon</i> <1 N FAC 3. 4. 5. 6. 7. 8.				
Total Cover: _____				
Woody Vine Stratum 1. 2.				Hydrophytic Vegetation Indicators: <u>x</u> Dominance Test is > 50% _____ Prevalence Test is ≤ 3.0 ¹ _____ Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation ¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
Total Cover: _____				
% Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust _____				
Remarks: Adjacent areas outside drainage consist of Bermuda grass (FACU)				
Hydrophytic Vegetation Present? Yes <u>x</u> No _____				

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0–0.5	Gley/2.5/10yr						Muck Interspersed at top layer
0.5–6	10yr 3/1						Silt loam
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					Indicators for Problematic Hydric Soils:³		
_____	Histosol (A1)	_____	Sandy Redox (S5)	_____	1 cm Muck (A9) (LRR C)		
_____	Histic Epipedon (A2)	_____	Stripped Matrix (S6)	_____	2 cm Muck (A10) (LRR B)		
_____	Black Histic (A3)	_____	Loamy Mucky Mineral (F1)	_____	Reduced Vertic (F18)		
_____	Hydrogen Sulfide (A4)	_____	Loamy Gleyed Matrix (F2)	_____	Red Parent Material (TF2)		
_____	Stratified Layers (A5) (LRR C)	_____	Depleted Matrix (F3)	_____	Other (Explain in Remarks)		
X _____	1 cm Muck (A9) (LRR D)	_____	Redox Dark Surface (F6)				
_____	Depleted Below Dark Surface (A11)	_____	Depleted Dark Surface (F7)				
_____	Thick Dark Surface (A12)	_____	Redox Depressions (F8)				
_____	Sandy Mucky Mineral (S1)	_____	Vernal Pools (F9)				
_____	Sandy Gleyed Matrix (S4)						
Restrictive Layer (if present): Type: _____ Depth (inches): _____				Hydric Soil Present? Yes X No _____			
Remarks: Standing water in drainage. 6 inches deep impenetrable soil.							

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)					
☒ Surface Water (A1)	☐ Salt Crust (B11)	☐ Water Marks (B1) (Riverine)			
☐ High Water Table (A2)	☐ Biotic Crust (B12)	☐ Sediment Deposits (B2) (Riverine)			
☒ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Drift Deposits (B3) (Riverine)			
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)			
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Dry-Season Water Table (C2)			
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)	☐ Thin Muck Surface (C7)			
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Tilled Soils (C6)	☐ Crayfish Burrows (C8)			
☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)	☐ Saturation Visible on Aerial Imagery (C9)			
☐ Water-Stained Leaves (B9)	☐ Other (Explain in Remarks)	☐ Shallow Aquatard (D3)			
		☐ FAC-Neutral Test (D5)			
Field Observations: Surface Water Present? Yes ☐ No ☐ Depth (inches): _____ Water Table Present? Yes ☐ No ☐ Depth (inches): _____ Saturation Present? Yes ☐ No ☐ Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes ☒ No ☐	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks:					

APPENDIX F: BIOLOGICAL RESOURCES

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: Riverside County Sampling Date: 8/30/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP 2
 Investigators: W. Walters, G. Ingram Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Drainage/Floodplain Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: 33.96889 Long: -117.07494 Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric soil present? Yes <u>x</u> No _____	
Wetland Hydrology present? Yes _____ No <u>X</u>	

Remarks: Photo # 0705. 35 feet north of SP 1.
 *wetland hydrology is not clearly evident. SP-2 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland. Therefore, as a problem area, this site is considered to be a wetland.

VEGETATION – Use scientific names of plants

<table style="width: 100%;"> <tr> <th style="text-align: left;">Tree Stratum (Plot size: 15x15)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr> <td>1. <i>Salix gooddingii</i></td> <td style="text-align: center;">60</td> <td style="text-align: center;">yes</td> <td style="text-align: center;">FACW</td> </tr> <tr><td>2.</td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td></tr> <tr> <td colspan="4" style="text-align: right;">Total Cover: _____</td> </tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum (Plot size:)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr> <td>1. <i>Juncus mexicanus</i></td> <td style="text-align: center;">90</td> <td style="text-align: center;">yes</td> <td style="text-align: center;">FACW</td> </tr> <tr><td>2.</td><td></td><td></td><td></td></tr> <tr><td>3.</td><td></td><td></td><td></td></tr> <tr><td>4.</td><td></td><td></td><td></td></tr> <tr><td>5.</td><td></td><td></td><td></td></tr> <tr> <td colspan="4" style="text-align: right;">Total Cover: _____</td> </tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Herb Stratum (Plot size:)</th> </tr> <tr><td>1.</td></tr> <tr><td>2.</td></tr> <tr><td>3.</td></tr> <tr><td>4.</td></tr> <tr><td>5.</td></tr> <tr><td>6.</td></tr> <tr><td>7.</td></tr> <tr><td>8.</td></tr> <tr> <td colspan="2" style="text-align: right;">Total Cover: _____</td> </tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> </tr> <tr><td>1.</td></tr> <tr><td>2.</td></tr> <tr> <td colspan="2" style="text-align: right;">Total Cover: _____</td> </tr> </table> % Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust: _____	Tree Stratum (Plot size: 15x15)	Absolute % Cover	Dominant Species?	Indicator Status	1. <i>Salix gooddingii</i>	60	yes	FACW	2.				3.				4.				Total Cover: _____				Sapling/Shrub Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status	1. <i>Juncus mexicanus</i>	90	yes	FACW	2.				3.				4.				5.				Total Cover: _____				Herb Stratum (Plot size:)	1.	2.	3.	4.	5.	6.	7.	8.	Total Cover: _____		Woody Vine Stratum	1.	2.	Total Cover: _____		Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percentage of Dominant Species That Are OBL, FACW, or FAC: <u>100%</u> (A/B) Prevalence index worksheet <table style="width: 100%;"> <tr> <th style="text-align: left;">Total % Cover of:</th> <th style="text-align: left;">Multiply by:</th> </tr> <tr> <td>OBL species _____</td> <td>× 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>× 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>× 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>× 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>× 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2" style="text-align: center;">Prevalence Index = B/A = _____</td> </tr> </table> Hydrophytic Vegetation Indicators: <u>x</u> Dominance Test is > 50% <u>_____</u> Prevalence Test is ≤ 3.0¹ <u>_____</u> Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) <u>_____</u> Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u>x</u> No _____	Total % Cover of:	Multiply by:	OBL species _____	× 1 = _____	FACW species _____	× 2 = _____	FAC species _____	× 3 = _____	FACU species _____	× 4 = _____	UPL species _____	× 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
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Column Totals: _____ (A)	_____ (B)																																																																																				
Prevalence Index = B/A = _____																																																																																					

SOIL

Sampling Point: SP 2

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-3	10yr 3/2		5yr 4/6	10		Loam	
3-6	10yr 3/2		5yr 4/6	7		Loam	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Sandy Redox (S5)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5) (LRR C)	☐ Depleted Matrix (F3)
☐ 1 cm Muck (A9) (LRR D)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☒ Redox Depressions (F8)
☐ Sandy Mucky Mineral (S1)	☐ Vernal Pools (F9)
☐ Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:³

☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type:

Depth (inches):

Hydric Soil Present?

Yes

☒

No

Remarks:

Redox contrast = prominent, which meets hydric soils definition.

6-inch soil impenetrable soil at >6 inches due to soil type and roots.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

☐ Surface Water (A1)	☐ Salt Crust (B11)
☐ High Water Table (A2)	☐ Biotic Crust (B12)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)
☐ Water-Stained Leaves (B9)	☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquatard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	☐	No	☒	Depth (inches):	0-6 in.
Water Table Present?	Yes	☐	No	☒	Depth (inches):	0-6 in.
Saturation Present?	Yes	☐	No	☒	Depth (inches):	0-6 in.
(includes capillary fringe)						

Wetland Hydrology Present?

Yes

No

☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: No surface evidence of hydrology. SP-2 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: Riverside County Sampling Date: 8/30/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP 3
 Investigators: W. Walters, G. Ingram Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X</u> No _____
Hydric soil present? Yes <u>X</u> No _____	
Wetland Hydrology present? Yes <u>X</u> No _____	

Remarks:
 Site is considered to be potential wetlands. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. SP-3 meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore, if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland.

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size: 10x10)	Absolute % Cover	Dominant Species?	Indicator Status
1. <i>Salix lasiolepis</i>	70	y	FACW
2.			
3.			
4.			
Total Cover: _____			
<u>Sapling/Shrub Stratum</u> (Plot size:)			
1.			
2.			
3.			
4.			
5.			
Total Cover: _____			
<u>Herb Stratum</u> (Plot size:)			
1. <i>Festuca arundinacea</i>	10	n	FAC-
2. <i>Cynodon dactylon</i>	20	y	FAC
3. <i>Juncus mexicanus</i>	70	y	FACW
4.			
5.			
6.			
7.			
8.			
Total Cover: _____			
<u>Woody Vine Stratum</u>			
1.			
2.			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust _____			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
x Dominance Test is > 50%
 Prevalence Test is ≤ 3.0¹
 Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes x No _____

SOIL

Sampling Point: SP 3

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-8	10yr 3/2		10yr 4/4	7				

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ²Location: PL=Pore Lining, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Sandy Redox (S5)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5) (LRR C)	☐ Depleted Matrix (F3)
☐ 1 cm Muck (A9) (LRR D)	☐ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Sandy Mucky Mineral (S1)	☐ Vernal Pools (F9)
☐ Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:³

☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes _____

No _____

Remarks: Approximately 200 feet north of SP 2. Photo # 0706. Impenetrable soil below 8 inches.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

☐ Surface Water (A1)	☐ Salt Crust (B11)
☐ High Water Table (A2)	☐ Biotic Crust (B12)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Tilled Soils (C6)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)
☐ Water-Stained Leaves (B9)	☐ Other (Explain in Remarks)

Secondary Indicators (2 or more required)

☐ Water Marks (B1) (Riverine)
☐ Sediment Deposits (B2) (Riverine)
☐ Drift Deposits (B3) (Riverine)
☐ Drainage Patterns (B10)
☐ Dry-Season Water Table (C2)
☐ Thin Muck Surface (C7)
☐ Crayfish Burrows (C8)
☐ Saturation Visible on Aerial Imagery (C9)
☐ Shallow Aquatard (D3)
☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes _____	No ☒	Depth (inches): _____
Water Table Present?	Yes _____	No ☒	Depth (inches): _____
Saturation Present?	Yes _____	No ☒	Depth (inches): _____
(includes capillary fringe)			

Wetland Hydrology Present?Yes ☒

No _____

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks: * Pit dug in an area that may drain from an higher elevation area with Rumex (SP-4). Pit in a potential low flow 2 ft wide area. Wetland hydrology is not clearly evident. SP-3 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands.

APPENDIX F: BIOLOGICAL RESOURCES

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: Riverside County Sampling Date: 8/30/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP 4
 Investigators: W. Walters, G. Ingram Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes _____ No _____ Hydric soil present? Yes _____ No _____ Wetland Hydrology present? Yes _____ No _____	Is the Sampled Area within a Wetland? Yes _____ No _____
Remarks: Approximately 50 feet north of SP 3 and 100 feet south of (Tower Dec 3)	

VEGETATION – Use scientific names of plants

<table style="width: 100%;"> <tr> <th style="text-align: left;">Tree Stratum (Plot size: 20×20)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Sapling/Shrub Stratum (Plot size: 20×20)</th> <th></th> <th></th> <th></th> </tr> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Herb Stratum (Plot size: 20×20)</th> <th></th> <th></th> <th></th> </tr> <tr><td>1. <i>Cynodon dactylon</i></td><td style="text-align: center;">40</td><td style="text-align: center;">y</td><td style="text-align: center;">FAC</td></tr> <tr><td>2. <i>Juncus mexicanus</i></td><td style="text-align: center;">30</td><td style="text-align: center;">y</td><td style="text-align: center;">FACW</td></tr> <tr><td>3. <i>Festuca arundinacea</i></td><td style="text-align: center;">15</td><td style="text-align: center;">n</td><td style="text-align: center;">FAC-</td></tr> <tr><td>4. Thistle (<i>Cirsium</i> sp.)</td><td style="text-align: center;">2</td><td style="text-align: center;">n</td><td style="text-align: center;">UPL</td></tr> <tr><td>5. <i>Rumex crispus</i></td><td style="text-align: center;">10</td><td style="text-align: center;">n</td><td style="text-align: center;">FACW-</td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> <table style="width: 100%;"> <tr> <th style="text-align: left;">Woody Vine Stratum</th> <th></th> <th></th> <th></th> </tr> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> % Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust: _____	Tree Stratum (Plot size: 20×20)	Absolute % Cover	Dominant Species?	Indicator Status	1. _____				2. _____				3. _____				4. _____				Total Cover: _____				Sapling/Shrub Stratum (Plot size: 20×20)				1. _____				2. _____				3. _____				4. _____				5. _____				Total Cover: _____				Herb Stratum (Plot size: 20×20)				1. <i>Cynodon dactylon</i>	40	y	FAC	2. <i>Juncus mexicanus</i>	30	y	FACW	3. <i>Festuca arundinacea</i>	15	n	FAC-	4. Thistle (<i>Cirsium</i> sp.)	2	n	UPL	5. <i>Rumex crispus</i>	10	n	FACW-	6. _____				7. _____				8. _____				Total Cover: _____				Woody Vine Stratum				1. _____				2. _____				Total Cover: _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>2</u> (B) Percentage of Dominant Species That Are OBL, FACW, or FAC: <u>100</u> (A/B) Prevalence index worksheet Total % Cover of: _____ Multiply by: _____ OBL species _____ × 1 = _____ FACW species _____ × 2 = _____ FAC species _____ × 3 = _____ FACU species _____ × 4 = _____ UPL species _____ × 5 = _____ Column Totals: _____ (A) _____ (B) Prevalence Index = B/A = _____ Hydrophytic Vegetation Indicators: <u>x</u> Dominance Test is > 50% _____ Prevalence Test is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic. Hydrophytic Vegetation Present? Yes <u>x</u> No _____
Tree Stratum (Plot size: 20×20)	Absolute % Cover	Dominant Species?	Indicator Status																																																																																																										
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Profile Description: (Describe to the depth needed to document the indicators or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features			Texture	Remarks	
	Color (moist)	%	Color (moist)	%	Type ¹			Loc ²
12	10yr/3/2		10yr 4/6					
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					Indicators for Problematic Hydric Soils:³			
☐	Histosol (A1)		☐	Sandy Redox (S5)	☐	1 cm Muck (A9) (LRR C)		
☐	Histic Epipedon (A2)		☐	Stripped Matrix (S6)	☐	2 cm Muck (A10) (LRR B)		
☐	Black Histic (A3)		☐	Loamy Mucky Mineral (F1)	☐	Reduced Vertic (F18)		
☐	Hydrogen Sulfide (A4)		☐	Loamy Gleyed Matrix (F2)	☐	Red Parent Material (TF2)		
☐	Stratified Layers (A5) (LRR C)		☐	Depleted Matrix (F3)	☐	Other (Explain in Remarks)		
☐	1 cm Muck (A9) (LRR D)		☐	Redox Dark Surface (F6)				
☐	Depleted Below Dark Surface (A11)		☐	Depleted Dark Surface (F7)				
☐	Thick Dark Surface (A12)		☐	Redox Depressions (F8)				
☐	Sandy Mucky Mineral (S1)		☐	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.			
☐	Sandy Gleyed Matrix (S4)							
Restrictive Layer (if present): Type: _____ Depth (inches): _____					Hydric Soil Present? Yes <u>x</u> No <u> </u>			
Remarks: Hard pan layer below 12 inches. Redox contrast = prominent, therefore meets criteria for hydric soils.								

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)	
Primary Indicators (any one indicator is sufficient)					
☐	Surface Water (A1)	☐	Salt Crust (B11)	☐	Water Marks (B1) (Riverine)
☐	High Water Table (A2)	☐	Biotic Crust (B12)	☐	Sediment Deposits (B2) (Riverine)
☐	Saturation (A3)	☐	Aquatic Invertebrates (B13)	☐	Drift Deposits (B3) (Riverine)
☐	Water Marks (B1) (Nonriverine)	☐	Hydrogen Sulfide Odor (C1)	☐	* Drainage Patterns (B10)
☒	Sediment Deposits (B2) (Nonriverine)	☐	Oxidized Rhizospheres along Living Roots (C3)	☐	Dry-Season Water Table (C2)
☒	Drift Deposits (B3) (Nonriverine)	☐	Presence of Reduced Iron (C4)	☐	Thin Muck Surface (C7)
☒	Surface Soil Cracks (B6)	☐	Recent Iron Reduction in Tilled Soils (C6)	☐	Crayfish Burrows (C8)
☐	Inundation Visible on Aerial Imagery (B7)	☐	Thin Muck Surface (C7)	☐	Saturation Visible on Aerial Imagery (C9)
☐	Water-Stained Leaves (B9)	☐	Other (Explain in Remarks)	☐	Shallow Aquatard (D3)
				☐	FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes ☐ No ☐ Depth (inches): _____ Water Table Present? Yes ☐ No ☐ Depth (inches): _____ Saturation Present? Yes ☐ No ☐ Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes ☒ No ☐	
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:					
Remarks: * laydown of dead grasses or just fallen over vegetation. Appears to be a wet meadow subject to ponding Sample plot in open area. A 1-2' low flow area potentially flows from SP4 to SP 3.					

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-5
 Investigators: W. Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Base of large canyon Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>x</u>
Hydric soil present? Yes _____ No <u>x</u>	
Wetland Hydrology present? Yes <u>x</u> No _____	
Remarks: Not a wetland.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
Total Cover: _____			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>10'x10'</u>)			
1. arroyo willow (<i>Salix lasiolepis</i>)	30	Y	FACW
2. _____			
3. _____			
4. _____			
5. _____			
Total Cover: _____			
<u>Herb Stratum</u> (Plot size: <u>10'x10'</u>)			
1. <i>Mentha suaveolens</i>	60	Y	FACW
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
Total Cover: _____			
<u>Woody Vine Stratum</u>			
1. _____			
2. _____			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____		% Cover of Biotic Crust: _____	
Remarks:			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 2 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
x Dominance Test is > 50%
 _____ Prevalence Test is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)							
Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-5.5	10YR3/2		None				Silty clay
5.5-12	10YR3/2		7.5YR4/4	7%			Sandy loam
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ² Location: PL=Pore Lining, RC=Root Channel, M=Matrix.							
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)						Indicators for Problematic Hydric Soils:³	
☐	Histosol (A1)	☐	Sandy Redox (S5)	☐	1 cm Muck (A9) (LRR C)		
☐	Histic Epipedon (A2)	☐	Stripped Matrix (S6)	☐	2 cm Muck (A10) (LRR B)		
☐	Black Histic (A3)	☐	Loamy Mucky Mineral (F1)	☐	Reduced Vertic (F18)		
☐	Hydrogen Sulfide (A4)	☐	Loamy Gleyed Matrix (F2)	☐	Red Parent Material (TF2)		
☐	Stratified Layers (A5) (LRR C)	☐	Depleted Matrix (F3)	☐	Other (Explain in Remarks)		
☐	1 cm Muck (A9) (LRR D)	☐	Redox Dark Surface (F6)				
☐	Depleted Below Dark Surface (A11)	☐	Depleted Dark Surface (F7)				
☐	Thick Dark Surface (A12)	☐	Redox Depressions (F8)				
☐	Sandy Mucky Mineral (S1)	☐	Vernal Pools (F9)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present.			
☐	Sandy Gleyed Matrix (S4)						
Restrictive Layer (if present): Type: _____ Depth (inches): _____				Hydric Soil Present? Yes _____ No x _____			
Remarks: Not depleted matrix (matrix value is not 4 or greater).							

HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)				Water Marks (B1) (Riverine)			
☐	Surface Water (A1)	☐	Salt Crust (B11)	☒	Sediment Deposits (B2) (Riverine)		
☐	High Water Table (A2)	☐	Biotic Crust (B12)	☒	Drift Deposits (B3) (Riverine)		
☐	Saturation (A3)	☐	Aquatic Invertebrates (B13)	☐	Drainage Patterns (B10)		
☐	Water Marks (B1) (Nonriverine)	☐	Hydrogen Sulfide Odor (C1)	☐	Dry-Season Water Table (C2)		
☐	Sediment Deposits (B2) (Nonriverine)	☐	Oxidized Rhizospheres along Living Roots (C3)	☐	Thin Muck Surface (C7)		
☐	Drift Deposits (B3) (Nonriverine)	☐	Presence of Reduced Iron (C4)	☐	Crayfish Burrows (C8)		
☐	Surface Soil Cracks (B6)	☐	Recent Iron Reduction in Plowed Soils (C6)	☐	Saturation Visible on Aerial Imagery (C9)		
☐	Inundation Visible on Aerial Imagery (B7)	☐	Other (Explain in Remarks)	☐	Shallow Aquatard (D3)		
☐	Water-Stained Leaves (B9)	☐		☐	FAC-Neutral Test (D5)		
Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): Water Table Present? Yes ☐ No ☒ Depth (inches): Saturation Present? Yes ☐ No ☒ Depth (inches): (includes capillary fringe)				Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks:							

APPENDIX F: BIOLOGICAL RESOURCES

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-6
 Investigators: W. Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Base of large canyon Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____ Hydric soil present? Yes <u>x</u> No _____ Wetland Hydrology present? Yes <u>x*</u> No _____	Is the Sampled Area within a Wetland? Yes <u>X*</u> No _____
Remarks: Soil pit dug 8 days after a thunderstorm (therefore soil was not as compacted that described in SP-1, SP-2, and SP-3). *wetland hydrology is not clearly evident. SP-6 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland. Therefore, as a problem area, this site is considered to be a wetland.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	
1.				
2.				
3.				
4.				
Total Cover: _____				
<u>Sapling/Shrub Stratum</u>				
1.				
2.				
3.				
4.				
5.				
Total Cover: _____				
<u>Herb Stratum</u> (Plot size: 15'x15')				
1. Juncus mexicanus	98	Y	FACW	
2. Cynodon dactylon	2	N	FAC	
3.				
4.				
5.				
6.				
7.				
8.				
Total Cover: <u>100</u>				
<u>Woody Vine Stratum</u>				
1.				
2.				
Total Cover: _____				
% Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust _____				

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
x Dominance Test is > 50%
 _____ Prevalence Test is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

SOIL

Sampling Point: SP-6

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Loc ²	Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹			
0-12	10YR3/2		5YR5/8	5			Silty clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

_____ Histosol (A1)	_____ Sandy Redox (S5)
_____ Histic Epipedon (A2)	_____ Stripped Matrix (S6)
_____ Black Histic (A3)	_____ Loamy Mucky Mineral (F1)
_____ Hydrogen Sulfide (A4)	_____ Loamy Gleyed Matrix (F2)
_____ Stratified Layers (A5) (LRR C)	_____ Depleted Matrix (F3)
_____ 1 cm Muck (A9) (LRR D)	_____ x Redox Dark Surface (F6)
_____ Depleted Below Dark Surface (A11)	_____ Depleted Dark Surface (F7)
_____ Thick Dark Surface (A12)	_____ Redox Depressions (F8)
_____ Sandy Mucky Mineral (S1)	_____ Vernal Pools (F9)
_____ Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:³

_____ 1 cm Muck (A9) (LRR C)
_____ 2 cm Muck (A10) (LRR B)
_____ Reduced Vertic (F18)
_____ Red Parent Material (TF2)
_____ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes

x

No

Remarks:

Matrix/redox contrast=prominent for this SP.

Value of 3, chroma of 2 with 5% prominent redox=hydric soils.

HYDROLOGY

Wetland Hydrology Indicators:

Primary Indicators (any one indicator is sufficient)

_____ Surface Water (A1)	_____ Salt Crust (B11)
_____ High Water Table (A2)	_____ Biotic Crust (B12)
_____ Saturation (A3)	_____ Aquatic Invertebrates (B13)
_____ Water Marks (B1) (Nonriverine)	_____ Hydrogen Sulfide Odor (C1)
_____ Sediment Deposits (B2) (Nonriverine)	_____ Oxidized Rhizospheres along Living Roots (C3)
_____ Drift Deposits (B3) (Nonriverine)	_____ Presence of Reduced Iron (C4)
_____ Surface Soil Cracks (B6)	_____ Recent Iron Reduction in Plowed Soils (C6)
_____ Inundation Visible on Aerial Imagery (B7)	_____ Other (Explain in Remarks)
_____ Water-Stained Leaves (B9)	

Secondary Indicators (2 or more required)

_____ Water Marks (B1) (Riverine)
_____ Sediment Deposits (B2) (Riverine)
_____ Drift Deposits (B3) (Riverine)
_____ Drainage Patterns (B10)
_____ Dry-Season Water Table (C2)
_____ Thin Muck Surface (C7)
_____ Crayfish Burrows (C8)
_____ Saturation Visible on Aerial Imagery (C9)
_____ Shallow Aquatard (D3)
_____ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	_____	No	_____ x	Depth (inches):	_____
Water Table Present?	Yes	_____	No	_____ x	Depth (inches):	_____
Saturation Present?	Yes	_____	No	_____ x	Depth (inches):	_____
(includes capillary fringe)						

Wetland Hydrology Present?

Yes

No

x

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

Wetland hydrology is not clearly evident. SP-6 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012

Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-7

Investigators: W. Walters, S. Spencer Section, Township, Range: _____

Landform (hillslope, terrace, etc.): Base of large canyon Local relief (concave, convex, none): concave Slope (%): _____

Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____

Soil Map Unit Name: _____ NWI classification: _____

Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)

Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____

Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes <u>x</u> No _____
Hydric soil present? Yes <u>x</u> No _____	
Wetland Hydrology present? Yes _____ No <u>X</u> *	

Remarks:
 soil pit in a Juncus patch.
 *wetland hydrology is not clearly evident. Elevation and vegetation change at SP-7, therefore SP-7 is considered the edge of the potential wetland area.
 SP-7 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem areas for hydrology including soils with a restrictive soil layer and location at the edge of floodplain with a nearly level surface. Therefore if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland.

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover: _____			
<u>Sapling/Shrub Stratum</u>			
1.			
2.			
3.			
4.			
5.			
Total Cover: _____			
<u>Herb Stratum</u> (Plot size: 15'x15')			
1. Juncus mexicanus	98	Y	FACW
2. Cynodon dactylon	2	N	FAC
3.			
4.			
5.			
6.			
7.			
8.			
Total Cover: <u>100</u>			
<u>Woody Vine Stratum</u>			
1.			
2.			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust _____			

Dominance Test worksheet:

Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)

Total Number of Dominant Species Across All Strata: 1 (B)

Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet

Total % Cover of: _____ Multiply by: _____

OBL species _____ × 1 = _____

FACW species _____ × 2 = _____

FAC species _____ × 3 = _____

FACU species _____ × 4 = _____

UPL species _____ × 5 = _____

Column Totals: _____ (A) _____ (B)

Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:

x Dominance Test is > 50%

Prevalence Test is ≤ 3.0¹

Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)

Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present?	Yes <u>x</u> No _____
--	-----------------------

SOIL

Sampling Point: SP-7

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)

Depth (inches)	Matrix		Redox Features			Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹		
0-12	10YR3/2		5YR5/8	5		Silty clay	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix. ²Location: PL=Pore Lining, RC=Root Channel, M=Matrix.**Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)**

☐ Histosol (A1)	☐ Sandy Redox (S5)
☐ Histic Epipedon (A2)	☐ Stripped Matrix (S6)
☐ Black Histic (A3)	☐ Loamy Mucky Mineral (F1)
☐ Hydrogen Sulfide (A4)	☐ Loamy Gleyed Matrix (F2)
☐ Stratified Layers (A5) (LRR C)	☐ Depleted Matrix (F3)
☐ 1 cm Muck (A9) (LRR D)	☒ Redox Dark Surface (F6)
☐ Depleted Below Dark Surface (A11)	☐ Depleted Dark Surface (F7)
☐ Thick Dark Surface (A12)	☐ Redox Depressions (F8)
☐ Sandy Mucky Mineral (S1)	☐ Vernal Pools (F9)
☐ Sandy Gleyed Matrix (S4)	

Indicators for Problematic Hydric Soils:³

☐ 1 cm Muck (A9) (LRR C)
☐ 2 cm Muck (A10) (LRR B)
☐ Reduced Vertic (F18)
☐ Red Parent Material (TF2)
☐ Other (Explain in Remarks)

³Indicators of hydrophytic vegetation and wetland hydrology must be present.

Restrictive Layer (if present):

Type: _____

Depth (inches): _____

Hydric Soil Present?

Yes

☒

No

Remarks:

Matrix/redox contrast=prominent for this SP.

Value of 3, chroma of 2 with 5% prominent redox=hydric soils.

Soil pit dug 8 days after a thunderstorm-therefore soils were not as compacted as in SP-1, SP-2, and SP-3.

HYDROLOGY

Wetland Hydrology Indicators:**Secondary Indicators (2 or more required)****Primary Indicators (any one indicator is sufficient)**

☐ Surface Water (A1)	☐ Salt Crust (B11)	☐ Water Marks (B1) (Riverine)
☐ High Water Table (A2)	☐ Biotic Crust (B12)	☐ Sediment Deposits (B2) (Riverine)
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☐ Drift Deposits (B3) (Riverine)
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)	☐ Drainage Patterns (B10)
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Dry-Season Water Table (C2)
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)	☐ Thin Muck Surface (C7)
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Plowed Soils (C6)	☐ Crayfish Burrows (C8)
☐ Inundation Visible on Aerial Imagery (B7)	☐ Other (Explain in Remarks)	☐ Saturation Visible on Aerial Imagery (C9)
☐ Water-Stained Leaves (B9)		☐ Shallow Aquatard (D3)
		☐ FAC-Neutral Test (D5)

Field Observations:

Surface Water Present?	Yes	☐	No	☒	Depth (inches):	_____
Water Table Present?	Yes	☐	No	☒	Depth (inches):	_____
Saturation Present?	Yes	☐	No	☒	Depth (inches):	_____
(includes capillary fringe)						

Wetland Hydrology Present?

Yes

No

☒

Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:

Remarks:

No clear evidence of hydrology. Elevation and vegetation change at SP-7, therefore SP-7 is considered the edge of the potential wetland area. SP-7 is a problem area for hydrology. Although hydrology indicators are not strong, hydrophytic vegetation and hydric soils at this area are strong indicators of wetlands. This area meets the criteria as a problem area for hydrology including soils with a restrictive layer (clay) and location at the edge of floodplain with a nearly level surface. Therefore, if field work were to be conducted during the wetter portion of the year, it is very likely that this site would be considered to be a wetland.

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-8
 Investigators: W.Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Base of large canyon Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology Y naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes <u>x</u> No _____
Hydric soil present? Yes <u>x</u> No _____	
Wetland Hydrology present? Yes <u>x</u> No _____	
Remarks: Within 30 feet of drainage course.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
Total Cover: _____			
<u>Sapling/Shrub Stratum</u>			
1. _____			
2. _____			
3. _____			
4. _____			
5. _____			
Total Cover: _____			
<u>Herb Stratum</u> (Plot size: 15'x15')			
1. <u>Lepidium latifolium</u>	100	Y	FAC
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
Total Cover: <u>100</u>			
<u>Woody Vine Stratum</u>			
1. _____			
2. _____			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust _____			
Remarks:			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 1 (A)
 Total Number of Dominant Species Across All Strata: 1 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
x Dominance Test is > 50%
 _____ Prevalence Test is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

HYDROLOGY

*Proponent's Environmental Assessment
West of Devers Upgrade Project*

APPENDIX F: BIOLOGICAL RESOURCES

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-9
 Investigators: W. Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Creek Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes <u>x</u> No _____
Hydric soil present? Yes <u>x</u> No _____	
Wetland Hydrology present? Yes <u>x</u> No _____	
Remarks: soil pit dug 8 days after a thunderstorm. Within 6' of flowing water in creek.	

VEGETATION

<table style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: left;">Tree Stratum (Use scientific names.)</th> <th style="text-align: center;">Absolute % Cover</th> <th style="text-align: center;">Dominant Species?</th> <th style="text-align: center;">Indicator Status</th> </tr> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4"><u>Sapling/Shrub Stratum</u> (Plot size: <u>5'x5'</u>)</td> </tr> <tr> <td>1. arroyo willow (<i>Salix lasiolepis</i>)</td> <td style="text-align: center;">30</td> <td style="text-align: center;">Y</td> <td style="text-align: center;">FACW</td> </tr> <tr> <td>2. red willow (<i>Salix laevigata</i>)</td> <td style="text-align: center;">30</td> <td style="text-align: center;">Y</td> <td style="text-align: center;">FACW</td> </tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4"><u>Herb Stratum</u> (Plot size: <u>5'x5'</u>)</td> </tr> <tr> <td>1. desert wild grape (<i>Vitis girdiana</i>)</td> <td style="text-align: center;">20</td> <td style="text-align: center;">Y</td> <td style="text-align: center;">none</td> </tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td>3. _____</td><td></td><td></td><td></td></tr> <tr><td>4. _____</td><td></td><td></td><td></td></tr> <tr><td>5. _____</td><td></td><td></td><td></td></tr> <tr><td>6. _____</td><td></td><td></td><td></td></tr> <tr><td>7. _____</td><td></td><td></td><td></td></tr> <tr><td>8. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: <u>80</u></td></tr> </table> <table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4"><u>Woody Vine Stratum</u></td> </tr> <tr><td>1. _____</td><td></td><td></td><td></td></tr> <tr><td>2. _____</td><td></td><td></td><td></td></tr> <tr><td colspan="4" style="text-align: right;">Total Cover: _____</td></tr> </table> % Bare Ground in Herb Stratum: _____ % Cover of Biotic Crust: _____	Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status	1. _____				2. _____				3. _____				4. _____				Total Cover: _____				<u>Sapling/Shrub Stratum</u> (Plot size: <u>5'x5'</u>)				1. arroyo willow (<i>Salix lasiolepis</i>)	30	Y	FACW	2. red willow (<i>Salix laevigata</i>)	30	Y	FACW	3. _____				4. _____				5. _____				Total Cover: _____				<u>Herb Stratum</u> (Plot size: <u>5'x5'</u>)				1. desert wild grape (<i>Vitis girdiana</i>)	20	Y	none	2. _____				3. _____				4. _____				5. _____				6. _____				7. _____				8. _____				Total Cover: <u>80</u>				<u>Woody Vine Stratum</u>				1. _____				2. _____				Total Cover: _____				Dominance Test worksheet: Number of Dominant Species That Are OBL, FACW, or FAC: <u>2</u> (A) Total Number of Dominant Species Across All Strata: <u>3</u> (B) Percentage of Dominant Species That Are OBL, FACW, or FAC: <u>67</u> (A/B) Prevalence index worksheet <table style="width: 100%;"> <tr> <td style="width: 50%;">Total % Cover of:</td> <td style="width: 50%;">Multiply by:</td> </tr> <tr> <td>OBL species _____</td> <td>× 1 = _____</td> </tr> <tr> <td>FACW species _____</td> <td>× 2 = _____</td> </tr> <tr> <td>FAC species _____</td> <td>× 3 = _____</td> </tr> <tr> <td>FACU species _____</td> <td>× 4 = _____</td> </tr> <tr> <td>UPL species _____</td> <td>× 5 = _____</td> </tr> <tr> <td>Column Totals: _____ (A)</td> <td>_____ (B)</td> </tr> <tr> <td colspan="2">Prevalence Index = B/A = _____</td> </tr> </table> Hydrophytic Vegetation Indicators: <u>x</u> Dominance Test is > 50% _____ Prevalence Test is ≤ 3.0¹ _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet) _____ Problematic Hydrophytic Vegetation¹ (Explain) ¹ Indicators of hydric soil and wetland hydrology must be present. Hydrophytic Vegetation Present? Yes <u>x</u> No _____	Total % Cover of:	Multiply by:	OBL species _____	× 1 = _____	FACW species _____	× 2 = _____	FAC species _____	× 3 = _____	FACU species _____	× 4 = _____	UPL species _____	× 5 = _____	Column Totals: _____ (A)	_____ (B)	Prevalence Index = B/A = _____	
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HYDROLOGY

Wetland Hydrology Indicators:				Secondary Indicators (2 or more required)			
Primary Indicators (any one indicator is sufficient)				Water Marks (B1) (Riverine)			
☒	Surface Water (A1)	☐	Salt Crust (B11)	☒	Sediment Deposits (B2) (Riverine)		
☒	High Water Table (A2)	☐	Biotic Crust (B12)	☒	Drift Deposits (B3) (Riverine)		
☒	Saturation (A3)	☐	Aquatic Invertebrates (B13)	☐	Drainage Patterns (B10)		
☐	Water Marks (B1) (Nonriverine)	☐	Hydrogen Sulfide Odor (C1)	☐	Dry-Season Water Table (C2)		
☐	Sediment Deposits (B2) (Nonriverine)	☐	Oxidized Rhizospheres along Living Roots (C3)	☐	Thin Muck Surface (C7)		
☐	Drift Deposits (B3) (Nonriverine)	☐	Presence of Reduced Iron (C4)	☐	Crayfish Burrows (C8)		
☐	Surface Soil Cracks (B6)	☐	Recent Iron Reduction in Plowed Soils (C6)	☐	Saturation Visible on Aerial Imagery (C9)		
☐	Inundation Visible on Aerial Imagery (B7)	☐	Other (Explain in Remarks)	☐	Shallow Aquatard (D3)		
☐	Water-Stained Leaves (B9)	☐		☐	FAC-Neutral Test (D5)		
Field Observations: Surface Water Present? Yes ☐ No ☒ Depth (inches): _____ Water Table Present? Yes ☐ No ☒ Depth (inches): _____ Saturation Present? Yes ☐ No ☒ Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes ☒ No ☐			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available							
Remarks: Flowing water. Wetlands boundary approximately at drift lines/OHWM (approx. 15' wide).							

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: _____ Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: SP-10
 Investigators: W. Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Creek Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): _____ Lat: _____ Long: _____ Datum: _____
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes _____ No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes Y No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>x</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>x</u>
Hydric soil present? Yes _____ No <u>x</u>	
Wetland Hydrology present? Yes <u>x</u> No _____	
Remarks: soil pit dug 8 days after a thunderstorm. Within 6' of flowing water in creek.	

VEGETATION

Tree Stratum (Use scientific names.)	Absolute % Cover	Dominant Species?	Indicator Status
1. _____			
2. _____			
3. _____			
4. _____			
Total Cover: _____			
<u>Sapling/Shrub Stratum</u> (Plot size: <u>5'x5'</u>)			
1. arroyo willow (<i>Salix lasiolepis</i>)	30	Y	FACW
2. red willow (<i>Salix laevigata</i>)	30	Y	FACW
3. _____			
4. _____			
5. _____			
Total Cover: _____			
<u>Herb Stratum</u> (Plot size: <u>5'x5'</u>)			
1. desert wild grape (<i>Vitis girdiana</i>)	20	Y	none
2. _____			
3. _____			
4. _____			
5. _____			
6. _____			
7. _____			
8. _____			
Total Cover: <u>80</u>			
<u>Woody Vine Stratum</u>			
1. _____			
2. _____			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____		% Cover of Biotic Crust _____	
Remarks:			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 2 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 67 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
x Dominance Test is > 50%
 _____ Prevalence Test is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)
¹ Indicators of hydric soil and wetland hydrology must be present.

Hydrophytic Vegetation Present? Yes x No _____

HYDROLOGY

*Proponent's Environmental Assessment
West of Devers Upgrade Project*

WETLAND DETERMINATION DATA FORM – Arid West Region

Project/Site: West of Devers City/County: Riverside County Sampling Date: 9/7/2012
 Applicant/Owner: Southern California Edison State: CA Sampling Point: 88-1
 Investigators: W. Walters, S. Spencer Section, Township, Range: _____
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): concave Slope (%): _____
 Subregion (LRR): Arid West/ Lat: 33.96889 Long: -117.07494 Datum: WG884
 Soil Map Unit Name: _____ NWI classification: _____
 Are climatic/hydrologic conditions on the site typical for this time of year? Yes X No _____ (If no, explain in Remarks.)
 Are Vegetation N Soil N or Hydrology N significantly disturbed? Are "Normal Circumstances" present? Yes X No _____
 Are Vegetation N Soil N or Hydrology N naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic vegetation present? Yes <u>X</u> No _____	Is the Sampled Area within a Wetland? Yes _____ No <u>X</u>
Hydric soil present? Yes _____ No <u>X</u>	
Wetland Hydrology present? Yes _____ No <u>X</u>	
Remarks: Photo # 0704. GPS –	

VEGETATION – Use scientific names of plants

Tree Stratum (Plot size:)	Absolute % Cover	Dominant Species?	Indicator Status
1.			
2.			
3.			
4.			
Total Cover: _____			
Sapling/Shrub Stratum (Plot size:)			
1.			
2.			
3.			
4.			
5.			
Total Cover: _____			
Herb Stratum (Plot size: 10x10)			
1. <i>Anemopsis californica</i>	50	yes	OBL
2. <i>Juncus mexicanus</i>	20	yes	FACW
3. <i>Carex suaveolens</i>	30	yes	FACW
4.			
5.			
6.			
7.			
8.			
Total Cover: <u>100</u>			
Woody Vine Stratum			
1.			
2.			
Total Cover: _____			
% Bare Ground in Herb Stratum: _____	% Cover of Biotic Crust _____		
Remarks:			

Dominance Test worksheet:
 Number of Dominant Species That Are OBL, FACW, or FAC: 3 (A)
 Total Number of Dominant Species Across All Strata: 3 (B)
 Percentage of Dominant Species That Are OBL, FACW, or FAC: 100 (A/B)

Prevalence index worksheet
 Total % Cover of: _____ Multiply by: _____
 OBL species _____ × 1 = _____
 FACW species _____ × 2 = _____
 FAC species _____ × 3 = _____
 FACU species _____ × 4 = _____
 UPL species _____ × 5 = _____
 Column Totals: _____ (A) _____ (B)
 Prevalence Index = B/A = _____

Hydrophytic Vegetation Indicators:
X Dominance Test is > 50%
 _____ Prevalence Test is ≤ 3.0¹
 _____ Morphological Adaptations¹ (Provide supporting data in Remarks or on a separate sheet)
 _____ Problematic Hydrophytic Vegetation¹ (Explain)

¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.

Hydrophytic Vegetation Present? Yes X No _____

Profile Description: (Describe to the depth needed to document the indicators or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features		Texture	Remarks		
	Color (moist)	%	Color (moist)	%				
0-8	10yr 3/3					Sandy loam		
8-12	10yr 3/2					Loamy sand		
¹ Type: C=Concentration, D=Depletion, RM=Reduced Matrix, CS=Covered or Coated Sand Grains. ² Location: PL=Pore Lining, M=Matrix.								
Hydric Soil Indicators: (Applicable to all LRRs, unless otherwise noted.)					Indicators for Problematic Hydric Soils:³			
_____	Histosol (A1)	_____	Sandy Redox (S5)	_____	1 cm Muck (A9) (LRR C)			
_____	Histic Epipedon (A2)	_____	Stripped Matrix (S6)	_____	2 cm Muck (A10) (LRR B)			
_____	Black Histic (A3)	_____	Loamy Mucky Mineral (F1)	_____	Reduced Vertic (F18)			
_____	Hydrogen Sulfide (A4)	_____	Loamy Gleyed Matrix (F2)	_____	Red Parent Material (TF2)			
_____	Stratified Layers (A5) (LRR C)	_____	Depleted Matrix (F3)	_____	Other (Explain in Remarks)			
_____	1 cm Muck (A9) (LRR D)	_____	Redox Dark Surface (F6)	³ Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.				
_____	Depleted Below Dark Surface (A11)	_____	Depleted Dark Surface (F7)					
_____	Thick Dark Surface (A12)	_____	Redox Depressions (F8)					
_____	Sandy Mucky Mineral (S1)	_____	Vernal Pools (F9)					
_____	Sandy Gleyed Matrix (S4)							
Restrictive Layer (if present): Type: _____ Depth (inches): _____				Hydric Soil Present? Yes _____ No <u>X</u>				
Remarks:								

HYDROLOGY

Wetland Hydrology Indicators: Primary Indicators (any one indicator is sufficient)				Secondary Indicators (2 or more required)			
☐ Surface Water (A1)	☐ Salt Crust (B11)	☐ Water Marks (B1) (Riverine)		☐ Sediment Deposits (B2) (Riverine)			
☐ High Water Table (A2)	☐ Biotic Crust (B12)	☐ Drift Deposits (B3) (Riverine)		☐ Drainage Patterns (B10)			
☐ Saturation (A3)	☐ Aquatic Invertebrates (B13)	☒ Dry-Season Water Table (C2)		☐ Thin Muck Surface (C7)			
☐ Water Marks (B1) (Nonriverine)	☐ Hydrogen Sulfide Odor (C1)	☐ Crayfish Burrows (C8)		☐ Saturation Visible on Aerial Imagery (C9)			
☐ Sediment Deposits (B2) (Nonriverine)	☐ Oxidized Rhizospheres along Living Roots (C3)	☐ Shallow Aquatard (D3)		☐ FAC-Neutral Test (D5)			
☐ Drift Deposits (B3) (Nonriverine)	☐ Presence of Reduced Iron (C4)						
☐ Surface Soil Cracks (B6)	☐ Recent Iron Reduction in Tilled Soils (C6)						
☐ Inundation Visible on Aerial Imagery (B7)	☐ Thin Muck Surface (C7)						
☐ Water-Stained Leaves (B9)	☐ Other (Explain in Remarks)						
Field Observations: Surface Water Present? Yes ☐ No ☐ Depth (inches): _____ Water Table Present? Yes ☐ No ☐ Depth (inches): _____ Saturation Present? Yes ☐ No ☐ Depth (inches): _____ (includes capillary fringe)				Wetland Hydrology Present? Yes ☐ No ☒			
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:							
Remarks: Nearby some evidence of sediment deposits from road runoff from hill by oak tree; however, no hydrology evidence at area with hydrophytic vegetation.							