

Ponce Area, Puerto Rico Southern Part: Detailed Soil Map Legend

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Construction Materials and Excavating

(The information in this report indicates the dominant soil condition but does not eliminate the need for onsite investigation)

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
AaF2: Adjuntas-----	Very limited ~slope (very limited) ~low strength (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)
AgD: Aguilita-----	Slightly limited ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess lime (very limited) ~slope (very limited) ~small stones (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
AgF: Aguilita-----	Very limited ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess lime (very limited) ~slope (very limited) ~small stones (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
AhF: Aguilita-----	Very limited ~slope (very limited) ~large stones (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess lime (very limited) ~slope (very limited) ~large stones >25% (very limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
AnE2:					
Alonso-----	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
AnF2:					
Alonso-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
CbF2:					
Caguabo-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
CdF:					
Caguabo-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~small stones (very limited)	Very limited ~hard bedrock <40" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
Rock land-----	Not rated	Not rated	Not rated	Not rated	Not rated

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
CoD: Callabo-----	Very limited ~depth to bedrock (very limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~cutbanks cave (slightly limited)
CoE: Callabo-----	Very limited ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~cutbanks cave (slightly limited)
CoF2: Callabo-----	Very limited ~slope (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too sandy (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~cutbanks cave (slightly limited)
Cr: Cintrona-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~too clayey (limited) ~wetness (limited) ~flooding (moderately limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Ct: Constancia-----	Very limited ~low strength (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~too clayey (limited) ~wetness (limited) ~flooding (moderately limited)
CuF2: Consumo-----	Very limited ~slope (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (limited) ~too acid (moderately limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
Cx: Cortada-----	Very limited ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Moderately limited ~too clayey (moderately limited)	Moderately limited ~flooding (moderately limited) ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
CyB: Cuyon-----	Not limited	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~too sandy (very limited) ~small stones (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~flooding (moderately limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
DaD: Daguey-----	Very limited ~low strength (very limited) ~slope (slightly limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (very limited) ~too acid (slightly limited)	Very limited ~too clayey (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
EnC: Ensenada-----	Moderately limited ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~excess lime (very limited) ~small stones (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (moderately limited)
Fe: Fe-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess sodium (very limited) ~excess salts (very limited) ~too clayey (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited) ~wetness (slightly limited)
FtB: Fraternidad-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~small stones (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)
FtC2: Fraternidad-----	Very limited ~shrink-swell (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~small stones (limited) ~slope (slightly limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited) ~slope (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
GoF: Guanabano-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~slope (very limited) ~small stones (limited) ~too clayey (limited)	Very limited ~slope (very limited) ~cutbanks cave (very limited) ~too clayey (limited)
HmE2: Humatas-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
HmF2: Humatas-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)
HxF: Humatas-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (very limited) ~cutbanks cave (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Hy: Hydraquents-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited)	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~flooding (moderately limited)
Hz: Hydraquents-----	Very limited ~wetness (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~wetness (very limited) ~excess salts (very limited)	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~flooding (moderately limited)
Jg: Jacaguas-----	Moderately limited ~large stones (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~small stones (thickest layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer) ~small stones (thickest layer)	Very limited ~small stones (very limited) ~excess sodium (very limited) ~area reclaim (moderately limited)	Moderately limited ~flooding (moderately limited) ~large stones (moderately limited) ~cutbanks cave (slightly limited)
JnC: Jacana-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~depth to bedrock (very limited) ~slope (slightly limited)	Limited ~too clayey (limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
JzD: Juana diaz-----	Very limited ~depth to bedrock (very limited) ~low strength (very limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (moderately limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
JzE: Juana diaz-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (moderately limited)	Very limited ~soft bedrock <20" (very limited) ~slope (very limited) ~cutbanks cave (slightly limited)
LeC: Lares-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~too acid (slightly limited) ~slope (slightly limited)	Limited ~too clayey (limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)
LmF2: Lirios-----	Very limited ~slope (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LnB: Llanos-----	Very limited ~low strength (very limited) ~shrink-swell (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Limited ~too clayey (limited) ~cutbanks cave (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
LnC2:					
Llanos-----	Limited ~low strength (limited) ~shrink-swell (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~slope (slightly limited)	Limited ~too clayey (limited) ~cutbanks cave (slightly limited) ~slope (slightly limited)
LuE:					
Los guineos-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LuF:					
Los guineos-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
LyFX:					
Los guineos-----	Very limited ~low strength (very limited) ~slope (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
Maricao-----	Limitation Very limited ~low strength (very limited) ~slope (very limited)	Limitation Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limitation Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limitation Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Limitation Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
Ma: Machuelo-----	Very limited ~low strength (very limited) ~shrink-swell (very limited) ~wetness (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited) ~wetness (slightly limited) ~excess lime (slightly limited)	Very limited ~ponded (wetness) (very limited) ~wetness (very limited) ~flooding (moderately limited)
MeF2: Maraguez-----	Very limited ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~small stones (moderately limited) ~too sandy (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (slightly limited)
MkF2: Maricao-----	Very limited ~low strength (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (very limited) ~too acid (limited)	Very limited ~slope (very limited) ~too clayey (limited) ~cutbanks cave (slightly limited)
Mr: Meros-----	Not limited	Probable source	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~excess lime (slightly limited)	Very limited ~cutbanks cave (very limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
MsC: Montegrande-----	Very limited ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~area reclaim (very limited) ~too clayey (very limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited) ~wetness (limited)
MtE2: Morado-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~slope (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~too clayey (limited)	Very limited ~slope (very limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)
MtF2: Morado-----	Very limited ~slope (very limited) ~low strength (very limited) ~depth to bedrock (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~too clayey (limited)	Very limited ~slope (very limited) ~soft bedrock <40" (moderately limited) ~cutbanks cave (slightly limited)
MuD2: Mucara-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~too clayey (very limited) ~slope (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
MuE2:					
Mucara-----	Very limited ~low strength (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)
MuF2:					
Mucara-----	Very limited ~slope (very limited) ~depth to bedrock (very limited) ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~too clayey (very limited)	Very limited ~slope (very limited) ~soft bedrock <40" (limited) ~too clayey (moderately limited)
PaB:					
Paso seco-----	Very limited ~shrink-swell (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~area reclaim (very limited) ~too clayey (very limited) ~small stones (limited)	Very limited ~cutbanks cave (very limited) ~too clayey (limited)
PeF2:					
Pellejas-----	Very limited ~slope (very limited)	Possible source ~excess fines (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~slope (very limited) ~too acid (slightly limited)	Very limited ~slope (very limited) ~cutbanks cave (very limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
QeD2: Quebrada-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited) ~slope (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (moderately limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
QeE2: Quebrada-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (moderately limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
QeF2: Quebrada-----	Very limited ~slope (very limited) ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited) ~too clayey (moderately limited)	Very limited ~slope (very limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
Re: Reilly-----	Not limited	Possible source ~excess fines (bottom layer) ~possible source (thickest layer)	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	Very limited ~small stones (very limited) ~area reclaim (very limited)	Very limited ~cutbanks cave (very limited) ~wetness (limited) ~flooding (moderately limited)

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Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
Rw: Riverwash-----	Not rated	Not rated	Not rated	Not rated	Not rated
Unnamed-----	Very limited ~slope (very limited) ~low strength (very limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~slope (very limited)	Very limited ~slope (very limited)
Sa: San anton-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Limited ~too clayey (limited) ~small stones (slightly limited)	Moderately limited ~flooding (moderately limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
Se: Serrano-----	Not limited	Possible source ~possible source (thickest layer) ~possible source (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too sandy (very limited) ~excess sodium (very limited) ~excess salts (very limited)	Very limited ~cutbanks cave (very limited) ~wetness (limited) ~flooding (moderately limited)
Te: Teresa-----	Very limited ~low strength (very limited) ~shrink-swell (slightly limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess sodium (very limited) ~excess salts (very limited) ~too clayey (very limited)	Limited ~wetness (limited) ~flooding (moderately limited) ~too clayey (moderately limited)
Tf: Tidal flats-----	Not rated	Not rated	Not rated	Not rated	Not rated

Ponce Area, Puerto Rico Southern Part: Detailed Soil Map Legend

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Construction Materials and Excavating--Continued

Map symbol and soil name	Source for roadfill	Source for sand	Source for gravel	Source for topsoil	Shallow excavations
	Limitation	Limitation	Limitation	Limitation	Limitation
To: Toa-----	Very limited ~low strength (very limited) ~shrink-swell (moderately limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~too clayey (very limited)	Moderately limited ~flooding (moderately limited) ~too clayey (moderately limited) ~cutbanks cave (slightly limited)
TuF: Tuque-----	Very limited ~depth to bedrock (very limited) ~slope (very limited) ~large stones (limited)	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer) ~small stones (thickest layer)	Limited ~excess fines (bottom layer) ~small stones (thickest layer) ~possible source (thickest layer)	Very limited ~depth to bedrock (very limited) ~small stones (very limited) ~large stones >25% (very limited)	Very limited ~cutbanks cave (very limited) ~slope (very limited) ~large stones (limited)
YcB: Yauco-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess lime (very limited)	Slightly limited ~cutbanks cave (slightly limited) ~too clayey (slightly limited)
YcC: Yauco-----	Not limited	Very limited ~excess fines (thickest layer) ~excess fines (bottom layer)	Very limited ~excess fines (bottom layer) ~excess fines (thickest layer)	Very limited ~excess lime (very limited) ~slope (slightly limited)	Slightly limited ~cutbanks cave (slightly limited) ~slope (slightly limited) ~too clayey (slightly limited)