STA 70+00, transient analysis, existing conditions
Time Step: 11 (Summer)

Horizontal Hydraulic Conductivity (Kh) and Anisotropy Ratio (Kx/Kh)

Material #1 Hyd K Fn: 21 Sand w 0-2% CL or 3-7% ML, Ks=14 ft/day (5x10^(-3) cm/s) Ky/Kx Ratio: 0.25
Material #2 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10^(-5) cm/s) Ky/Kx Ratio: 0.25
Material #3 Hyd K Fn: 21 Sand w 0-2% CL or 3-7% ML, Ks=14 ft/day (5x10^(-3) cm/s) Ky/Kx Ratio: 0.25
Material #4 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10^(-5) cm/s) Ky/Kx Ratio: 0.1
Material #5 Hyd K Fn: 19 Silt Ks= 0.028 ft/day (1x10^(-5) cm/s) Ky/Kx Ratio: 0.25

1/200 AEP WSE = 41.7'

Total Head Contours
STA 70+00, transient analysis with cutoff wall
Time Step: 2 (Winter)

Horizontal Hydraulic Conductivity (Kh) and Anisotropy Ratio (Kv/Kh)

Material #1 Hyd K Fn: 21 Sand w/ 0-2% CL or 3-7% ML, Ks=14 ft/day (5x10E-3 cm/s) Ky/Kx Ratio: 0.25
Material #2 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.25
Material #3 Hyd K Fn: 21 Sand w/ 0-2% CL or 3-7% ML, Ks=14 ft/day (5x10E-3 cm/s) Ky/Kx Ratio: 0.25
Material #4 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.1
Material #5 Hyd K Fn: 19 Silt Ks= 0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.25
Material #7 Hyd K Fn: 22 Cutoff wall Ks = 0.0028 ft/day (1.0x10^-6 cm/sec) Ky/Kx Ratio: 1

1/200 AEP WSE = 41.7'

Total Head Contours
STA 70+00, transient analysis with cutoff wall
Time Step: 16 (Summer)

Horizontal Hydraulic Conductivity (K_h) and Anisotropy Ratio (K_v/K_h)

Material #1 Hyd K Fn: 21 Sand w/ 0.2% CL or 3-7% ML, Ks=14 ft/day (5x10E-3 cm/s) Ky/Kx Ratio: 0.25
Material #2 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.25
Material #3 Hyd K Fn: 21 Sand w/ 0.2% CL or 3-7% ML, Ks=14 ft/day (5x10E-3 cm/s) Ky/Kx Ratio: 0.25
Material #4 Hyd K Fn: 18 Clay Ks=0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.1
Material #5 Hyd K Fn: 19 Silt Ks= 0.028 ft/day (1x10E-5 cm/s) Ky/Kx Ratio: 0.25
Material #7 Hyd K Fn: 22 Cutoff wall Ks = 0.0028 ft/day (1.0x10^-6 cm/sec) Ky/Kx Ratio: 1

1/200 AEP WSE = 41.7"
STA 70+00, boundary conditions,
Transient analysis with cutoff wall and canal

Groundwater, River, and Canal Hydrographs

Elevation (feet) vs. Horizontal Distance (feet) (x 1000)

func. #1
func. #2
func. #3

KLEINFELDER

Graphic By: ESS
Date: 11/29/2007
Project No. 72834
File: App. Cutoff Wall

Evaluation of Cutoff Wall Impact on Groundwater Recharge
Sacramento River East Levee
PLATE 22
Estimated Groundwater Table Elevation

Note: Groundwater table elevation estimated at the locations halfway between the existing levee and the canal (~500 ft from levee toe)
ATTACHMENT C

PROPOSED CANAL PLAN