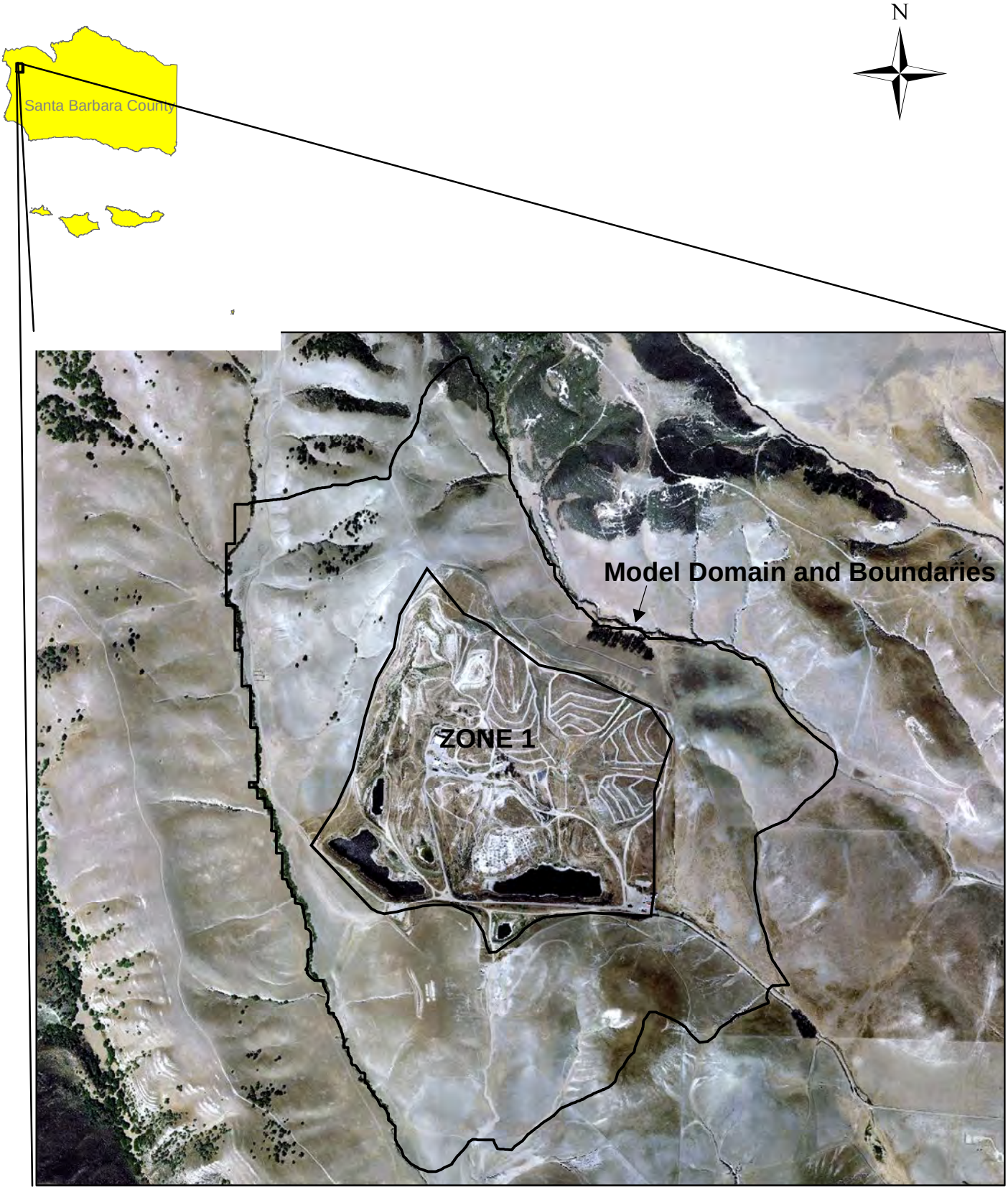

FigureD1-1.mxd

Model Domain and Boundaries
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-1

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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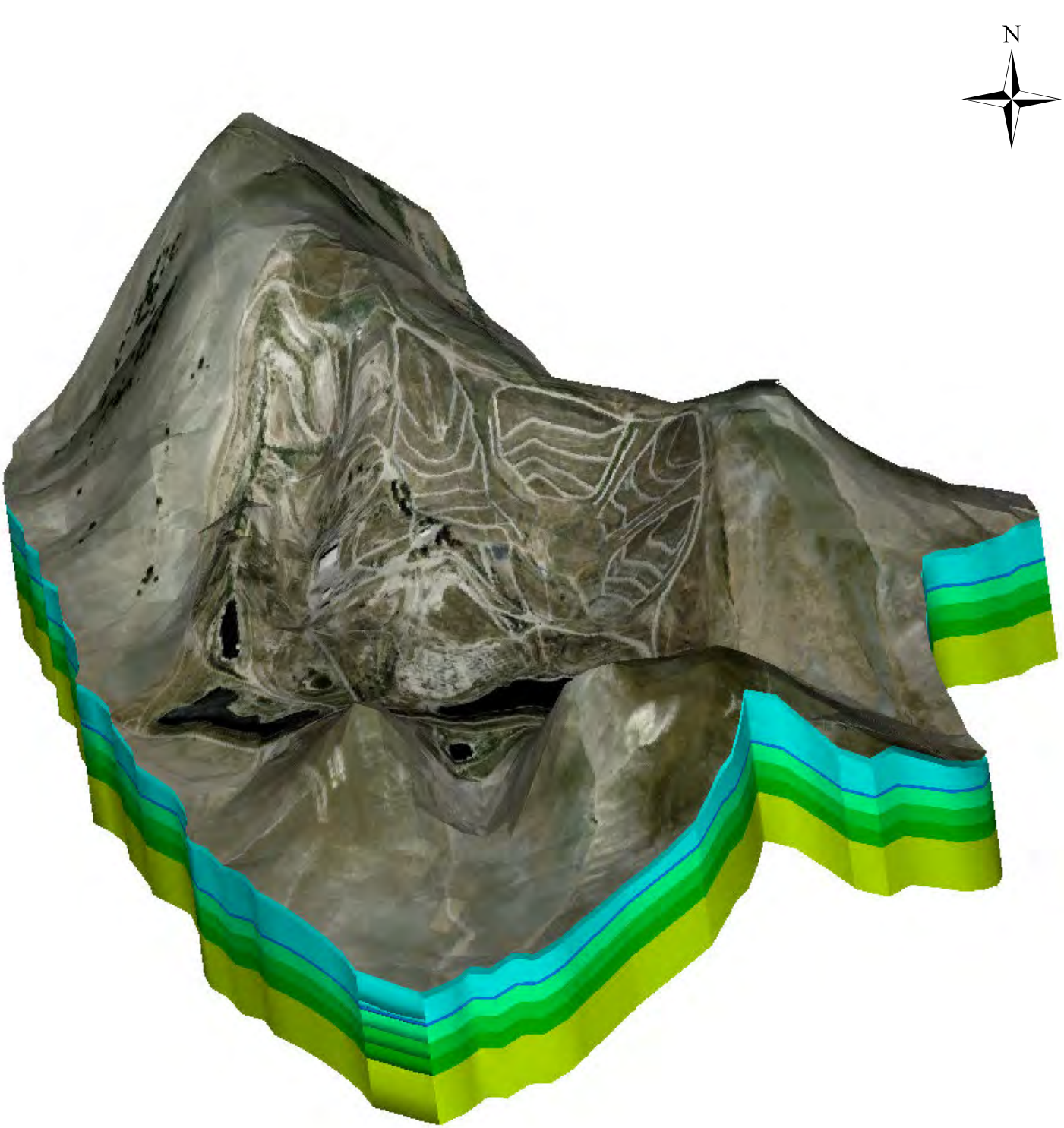

FigureD1-2.mxd

MODFLOW Model Domain and Layering
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-2

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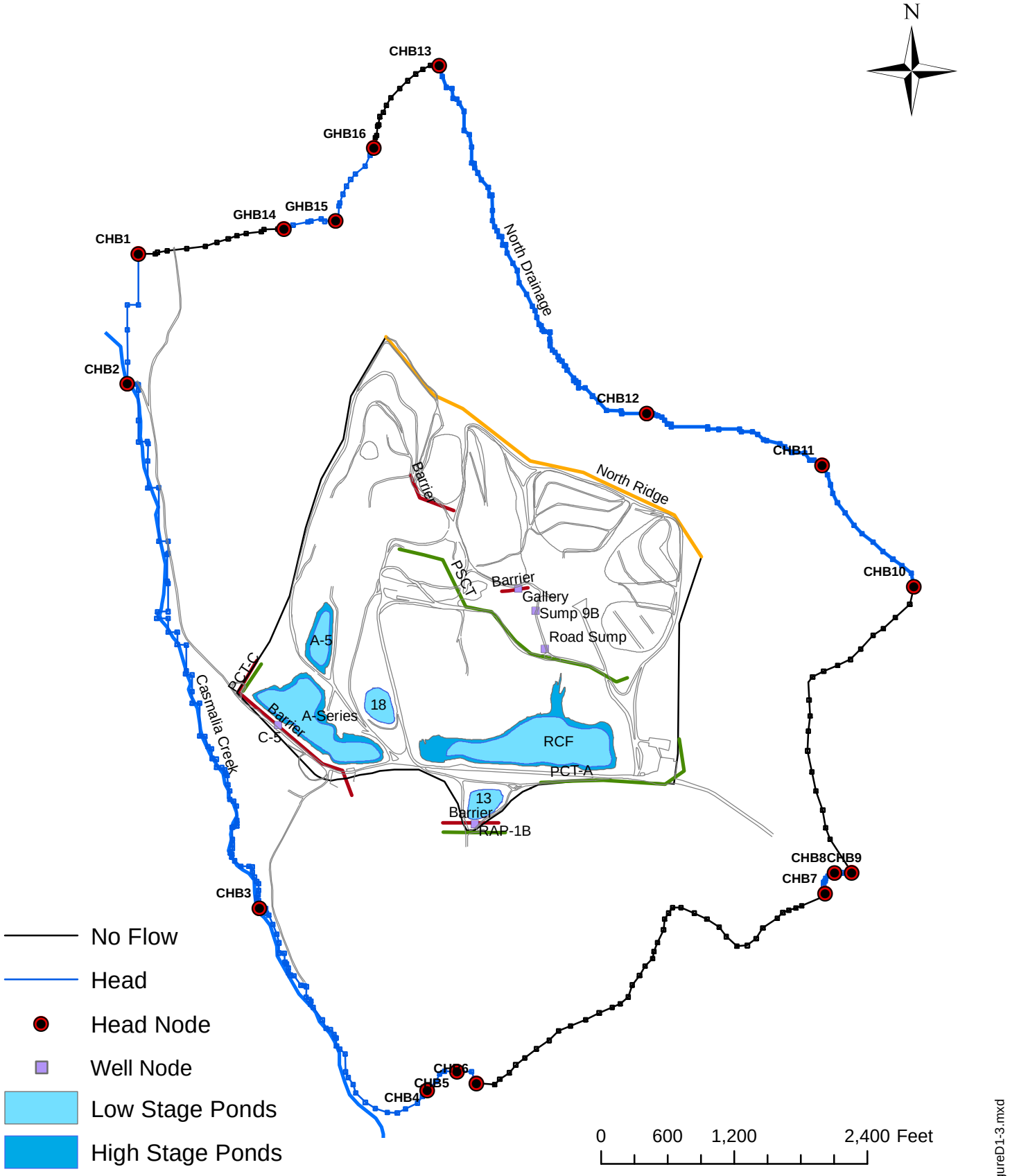

FigureD1-3.mxd

Boundary Conditions for Layers 1, 2 and 3
2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-3

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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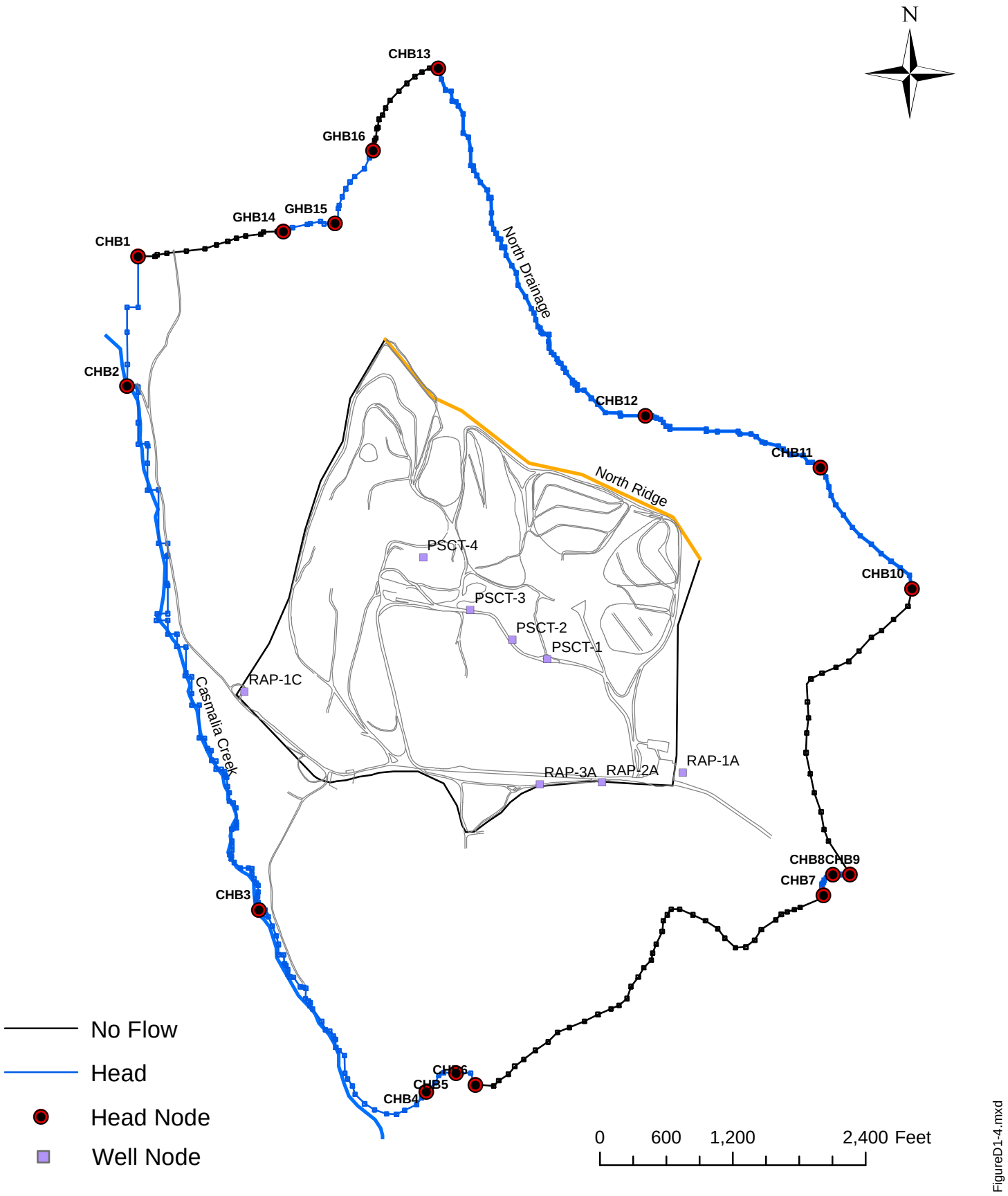

FigureD1-4.mxd

Boundary Conditions for Layer 4
2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-4

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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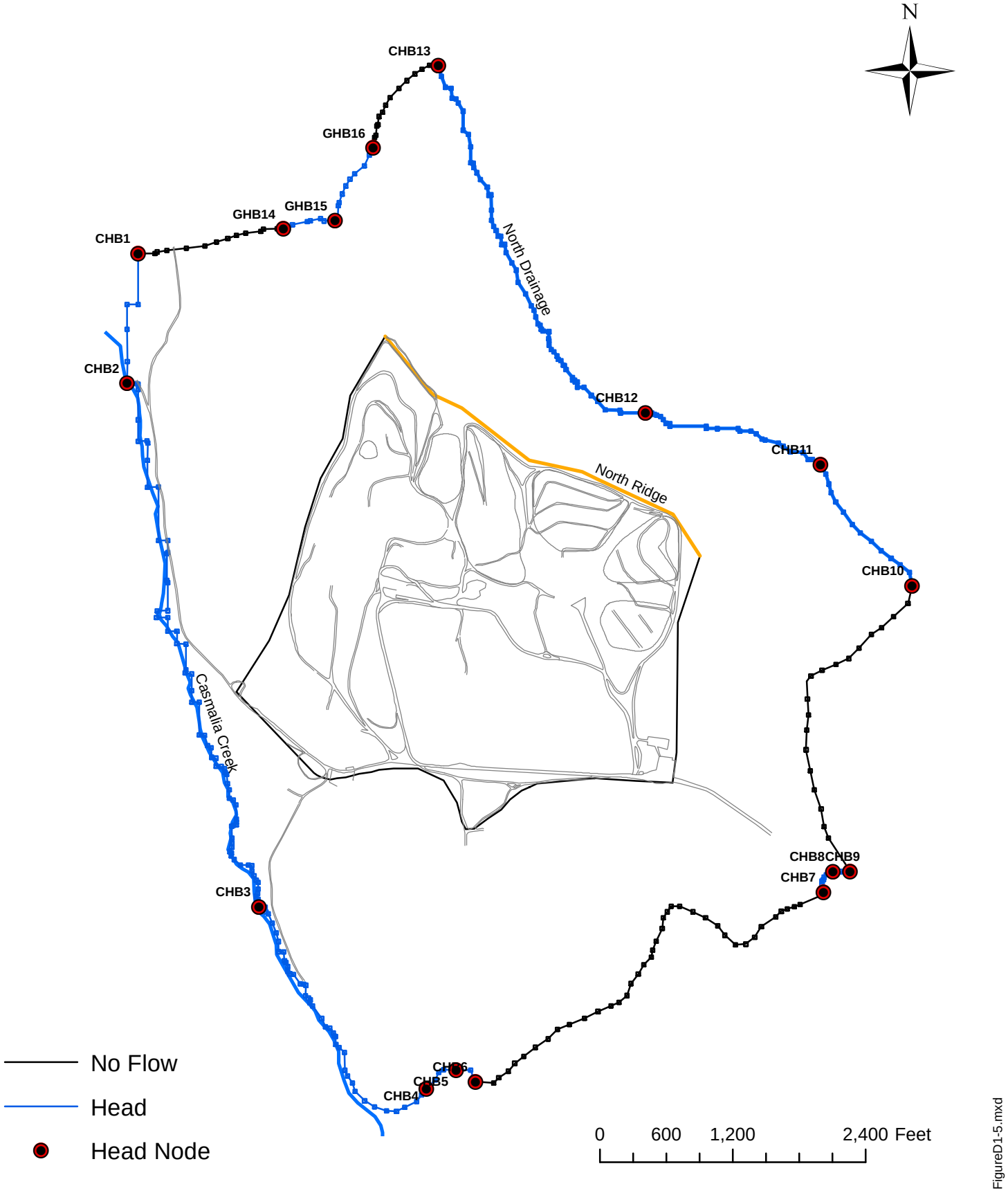

FigureD1-5.mxd

Boundary Conditions for Layer 5
2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-5

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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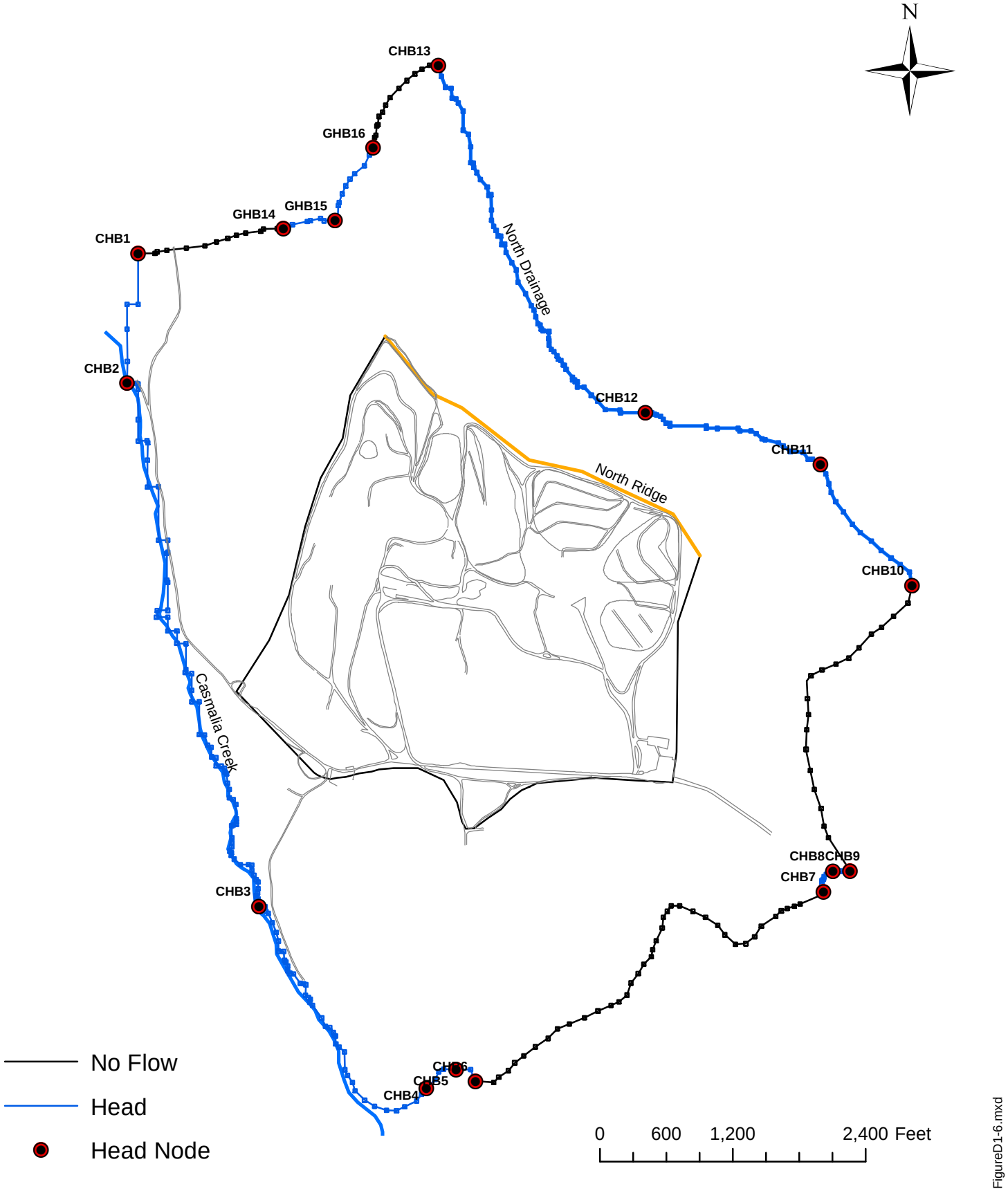

FigureD1-6.mxd

Boundary Conditions for Layer 6
2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-6

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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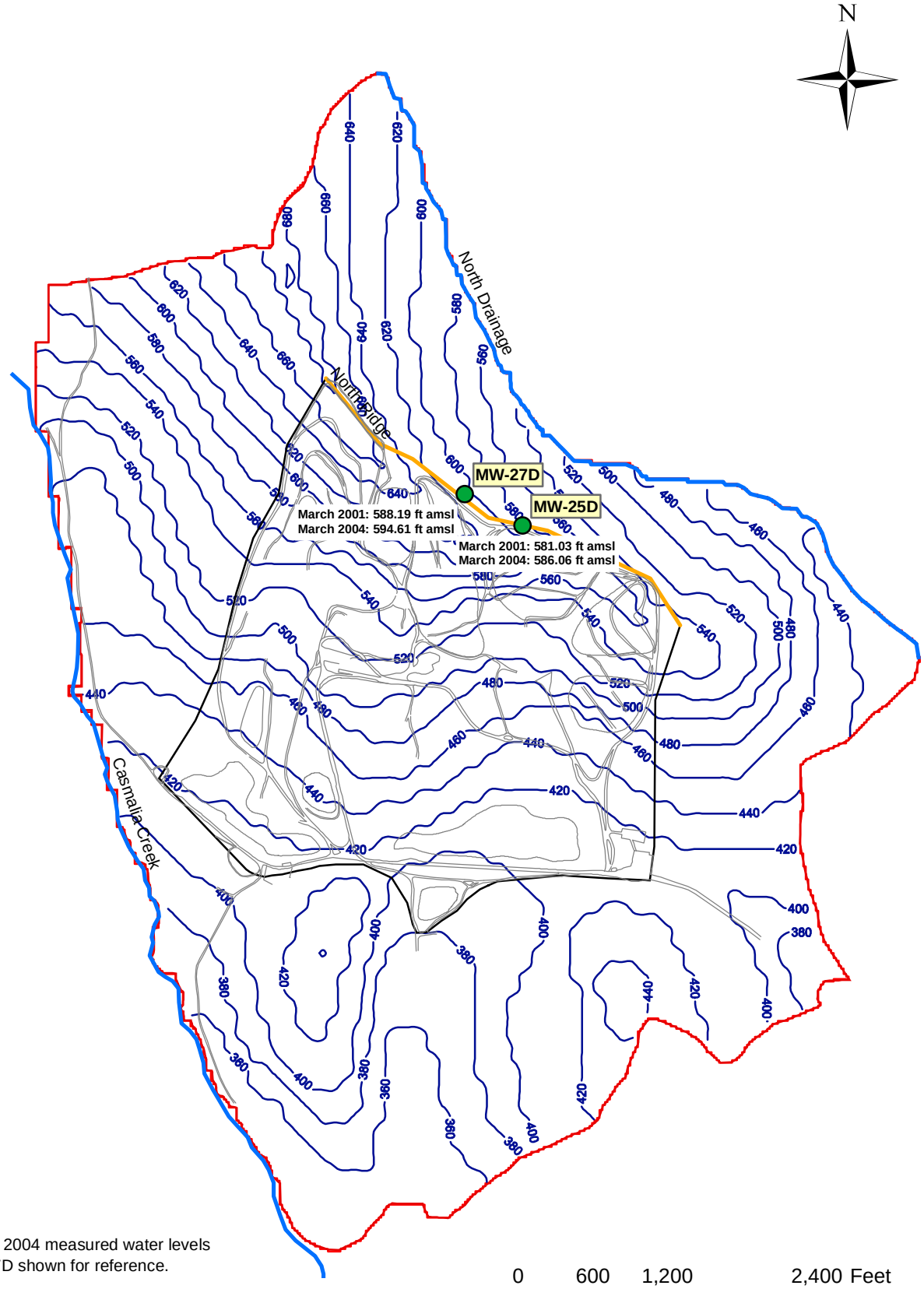


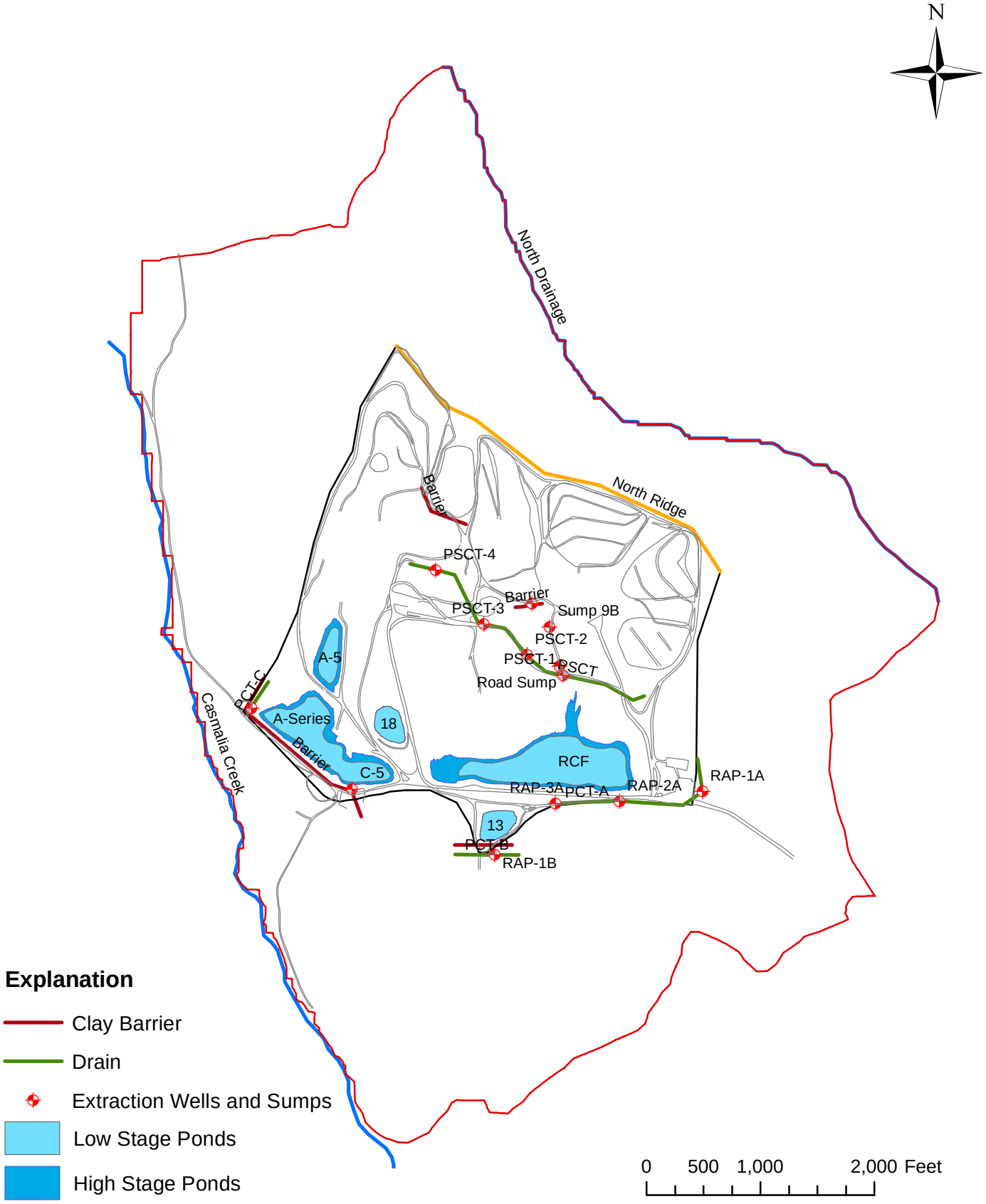
March 2001 and March 2004 measured water levels in MW-25D and MW-27D shown for reference.

FigureD1-7.mxd

General Head Boundary Elevations for Layer 7
March 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-7

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



FigureD1-8.mxd

Barriers, Drains, Extraction Well and Sumps Locations
2004 (Dry Season) and 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-8

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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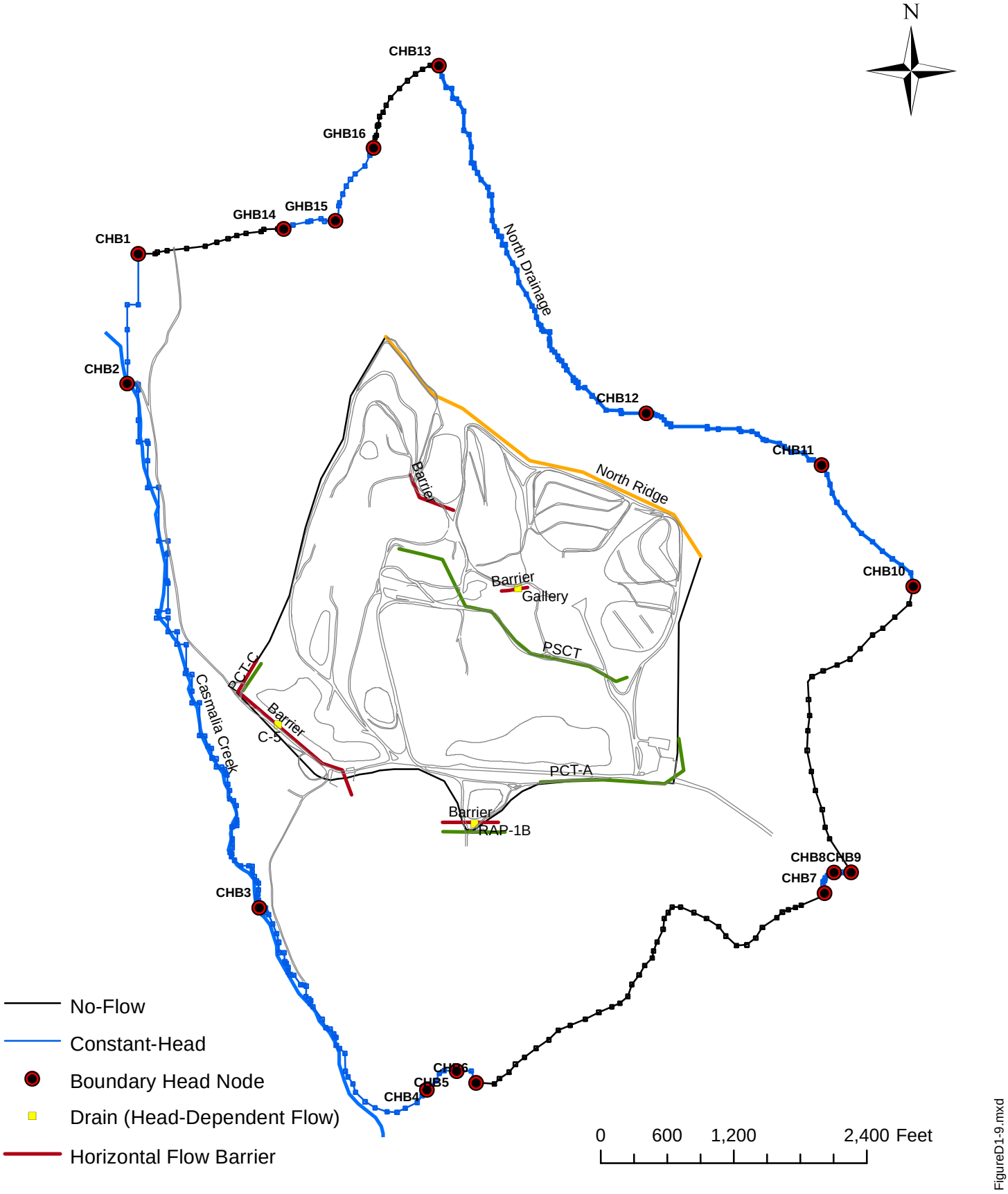

FigureD1-9.mxd

Boundary Conditions for Layer 3
Modified 2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-9

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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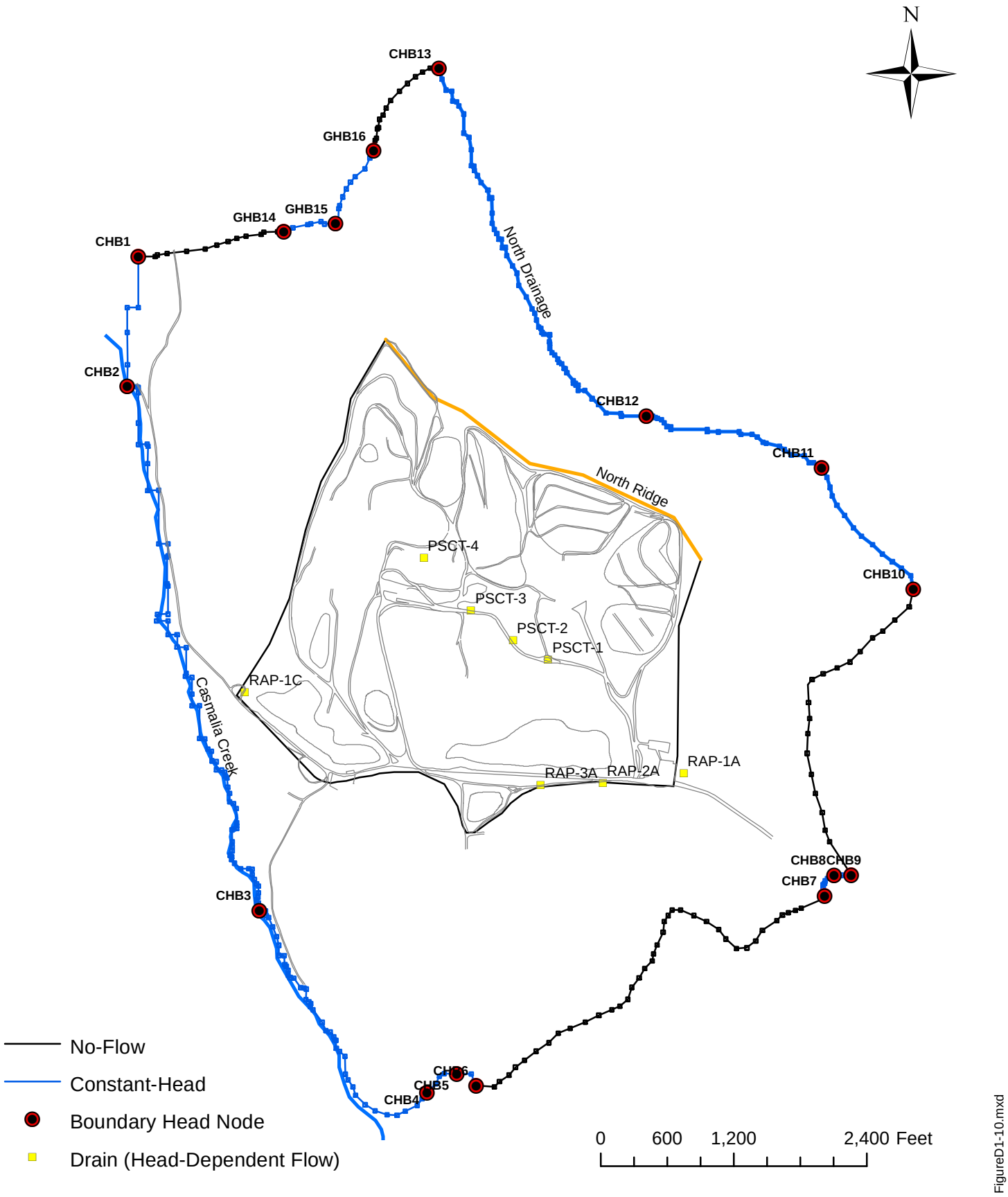

FigureD1-10.mxd

Boundary Conditions for Layer 4
Modified 2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-10

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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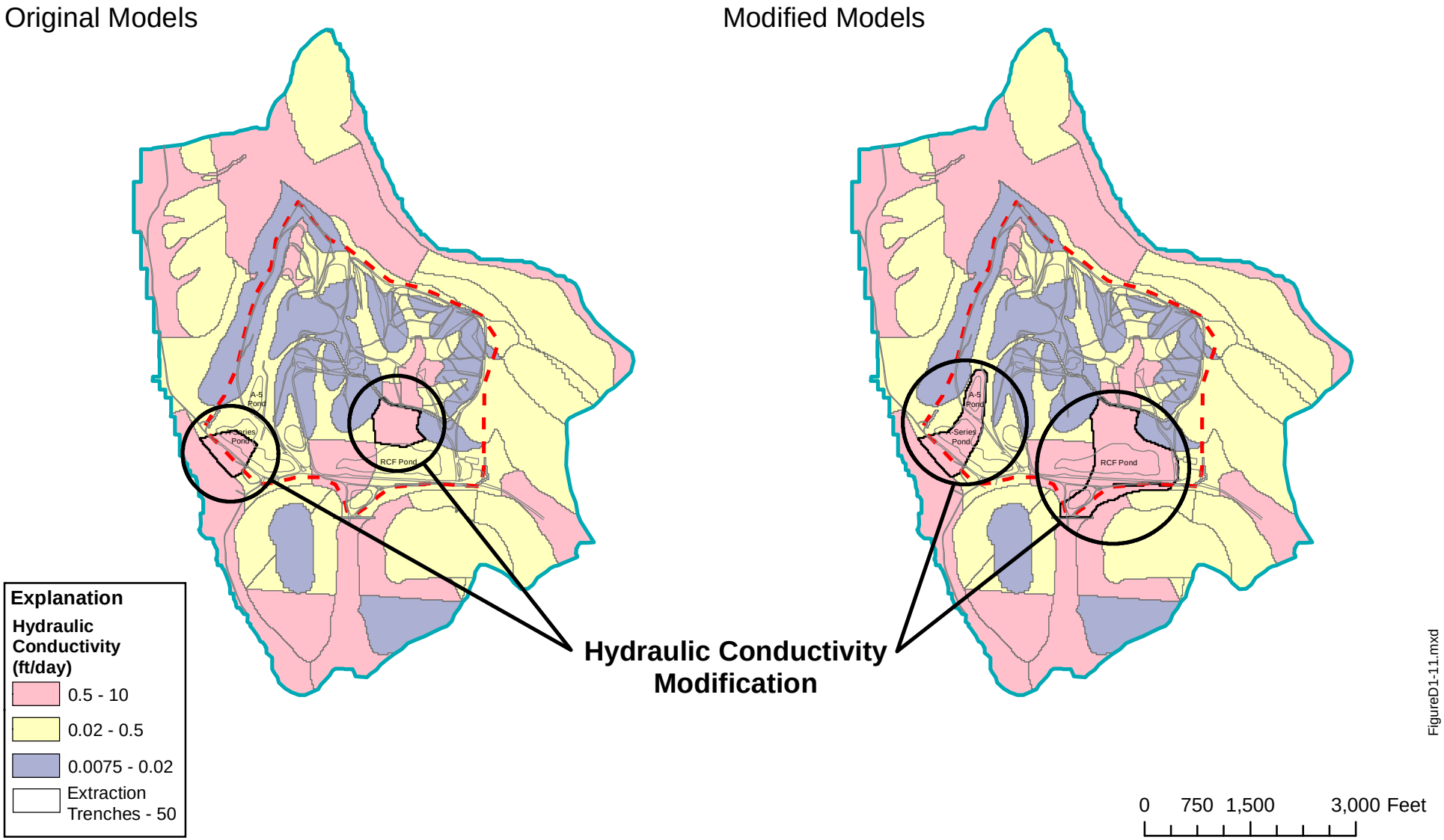


FigureD1-11.mxd

Hydraulic Conductivity Polygons for Layers 1, 2 and 3
Modified 2004 (Dry Season) and 2001 (Wet Season) Models

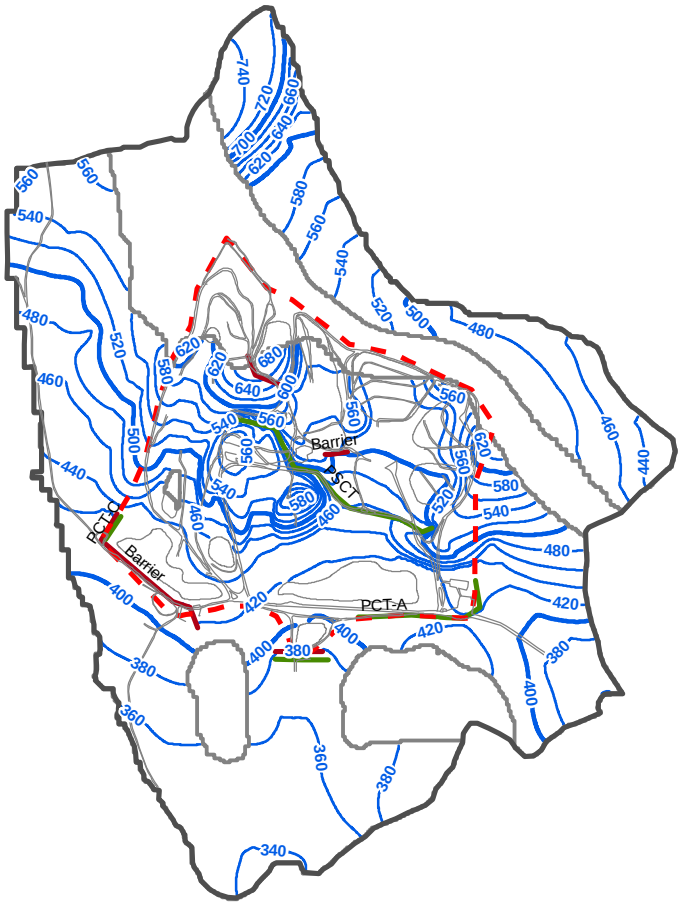
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

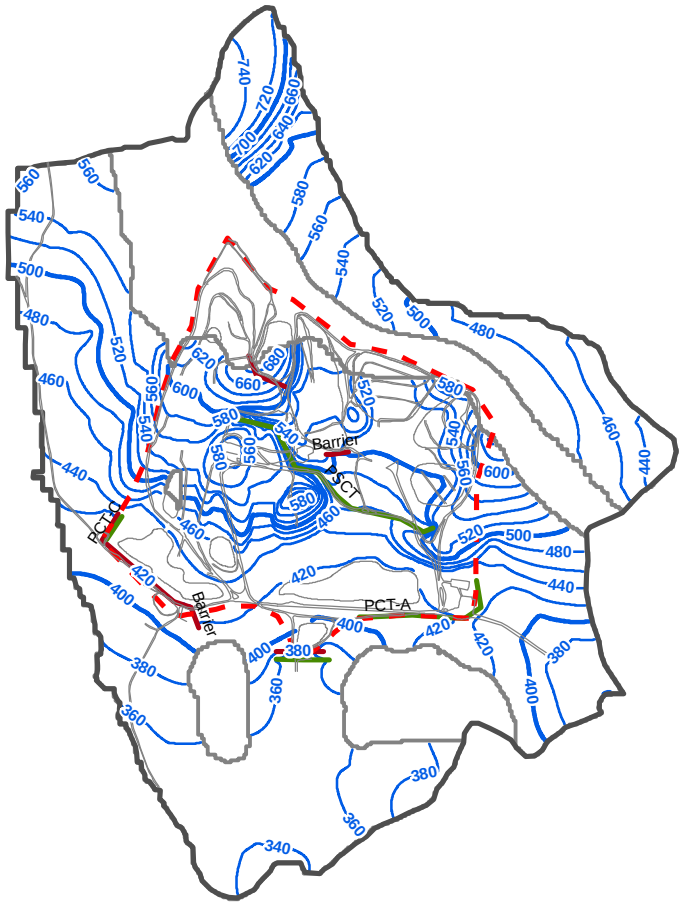
D1-11

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



FigureD1-12.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 1
Modified and Original 2004 (Dry Season) Models

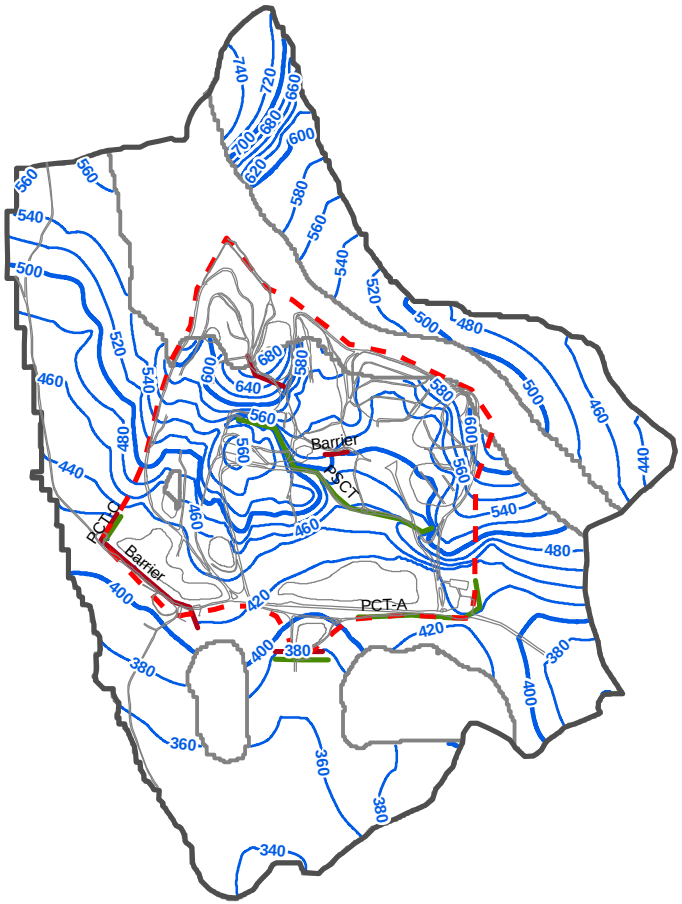
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

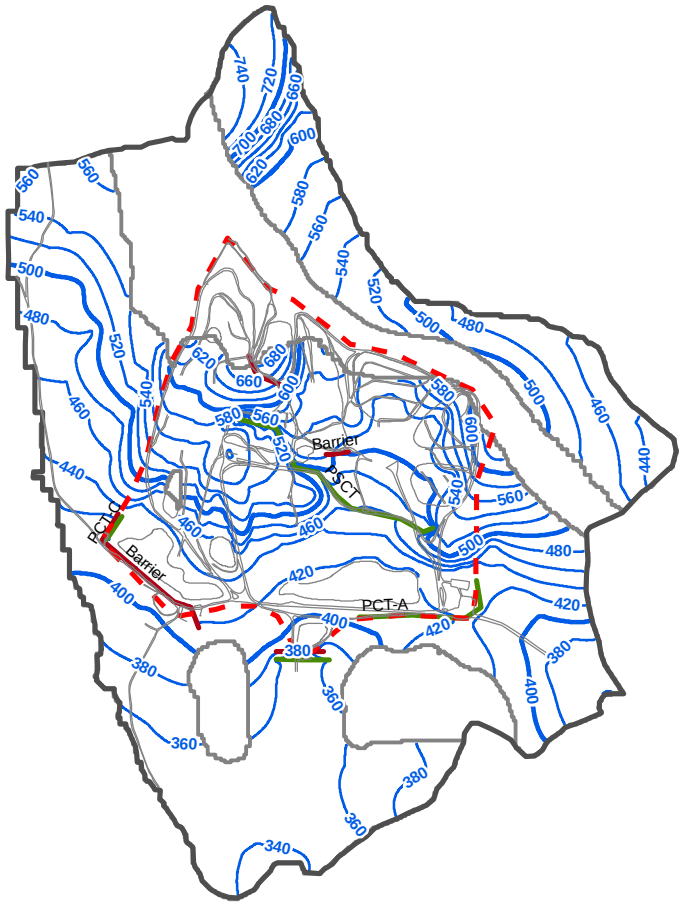
D1-12

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



FigureD1-13.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 2
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-13

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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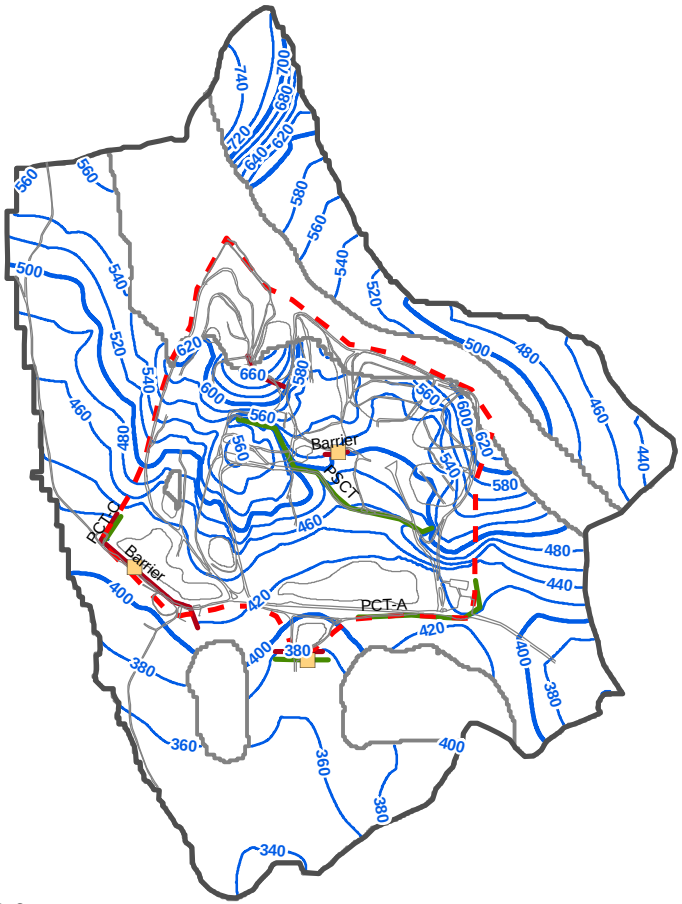
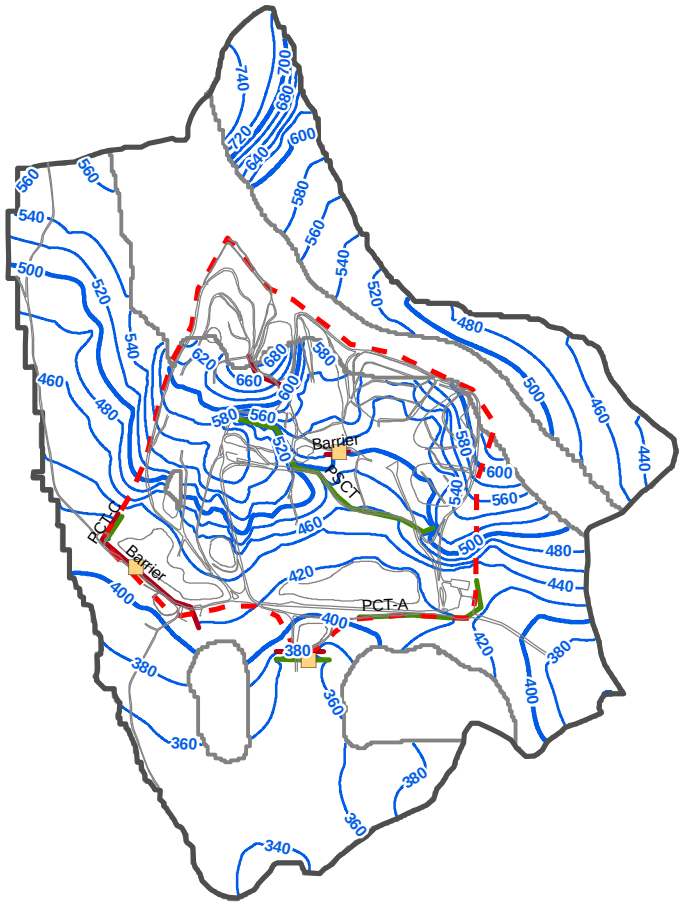
Modified Model



Original Model



FigureD1-14.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Upper HSU Extraction Wells

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 3
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-14

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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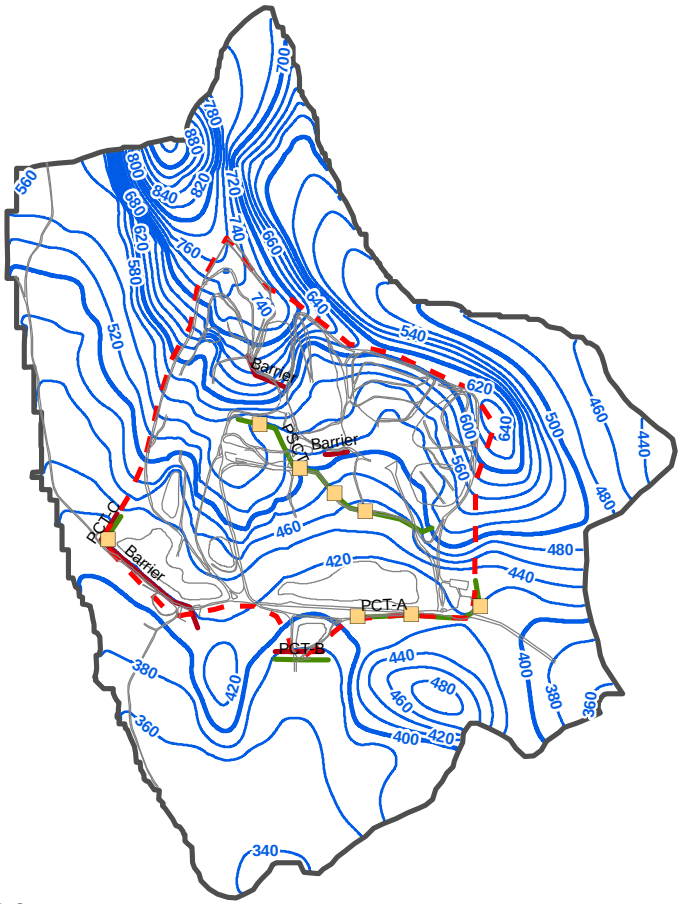
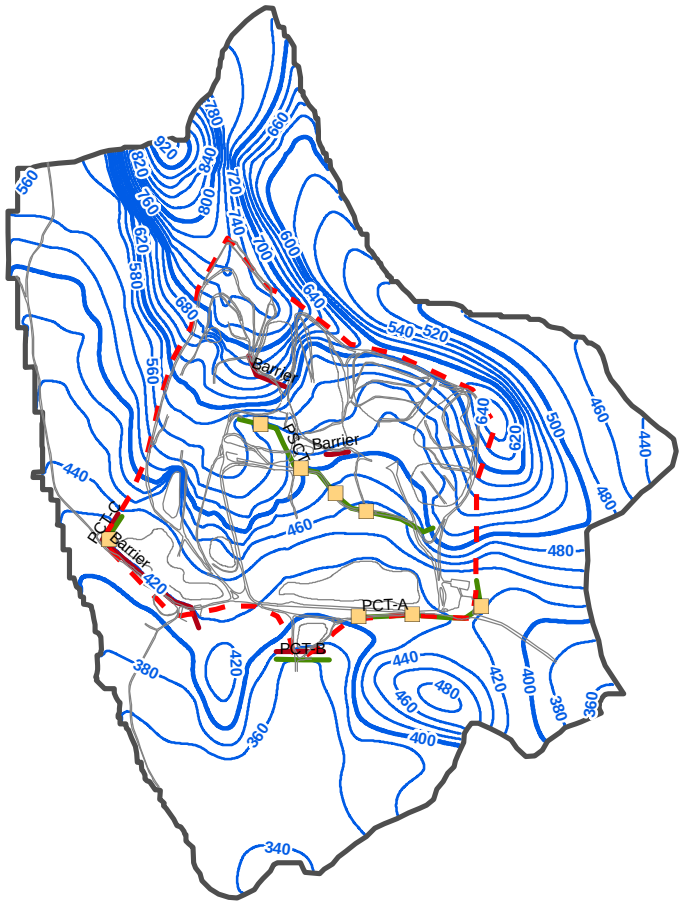
Modified Model



Original Model



FigureD1-15.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Lower HSU Extraction Wells

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 4
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-15

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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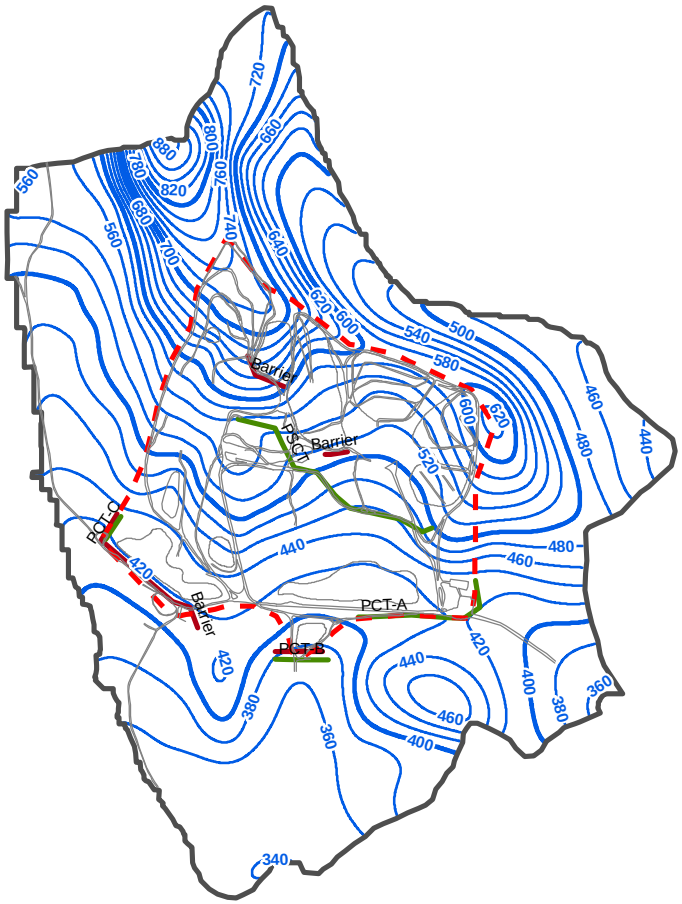
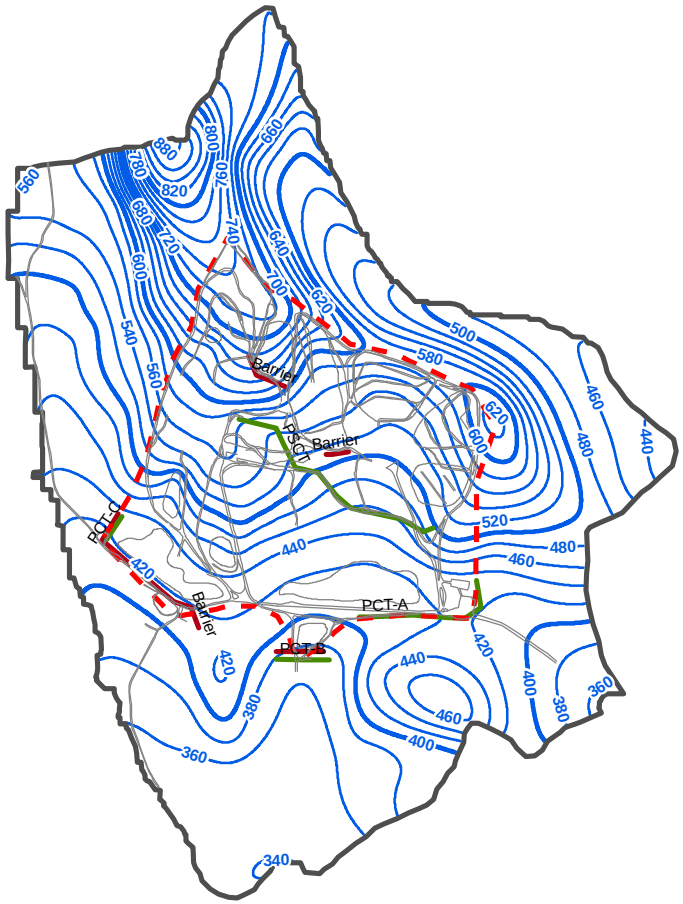
Modified Model



Original Model



FigureD1-16.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 5
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-16

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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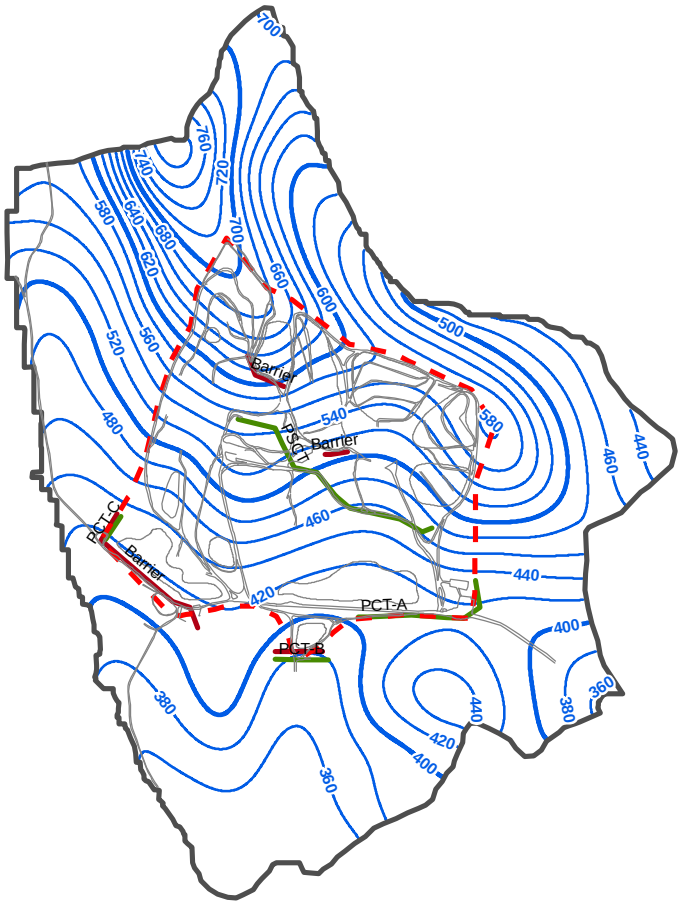
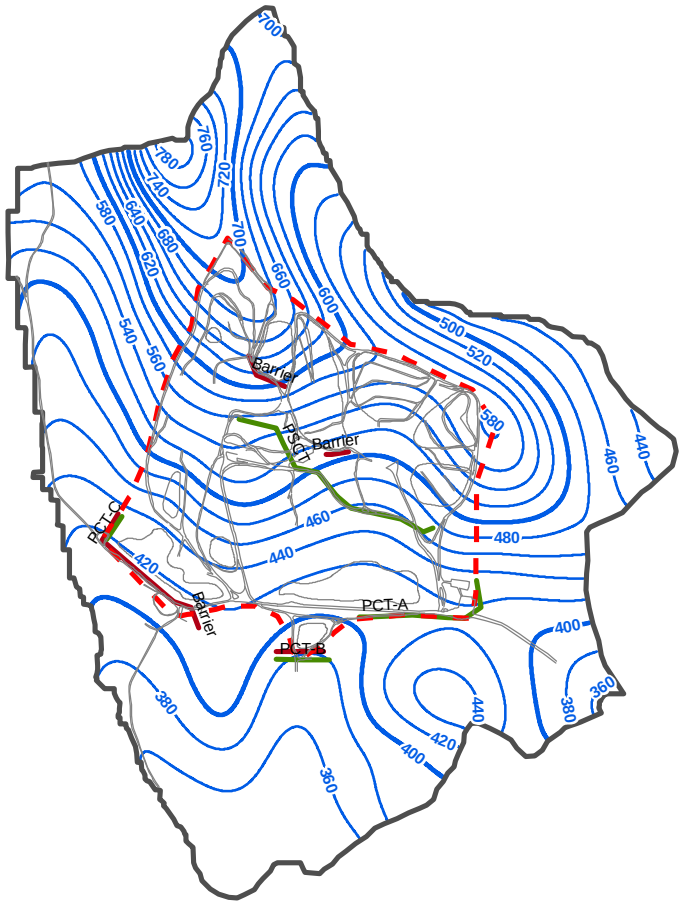
Modified Model



Original Model



FigureD1-17.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 6
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-17

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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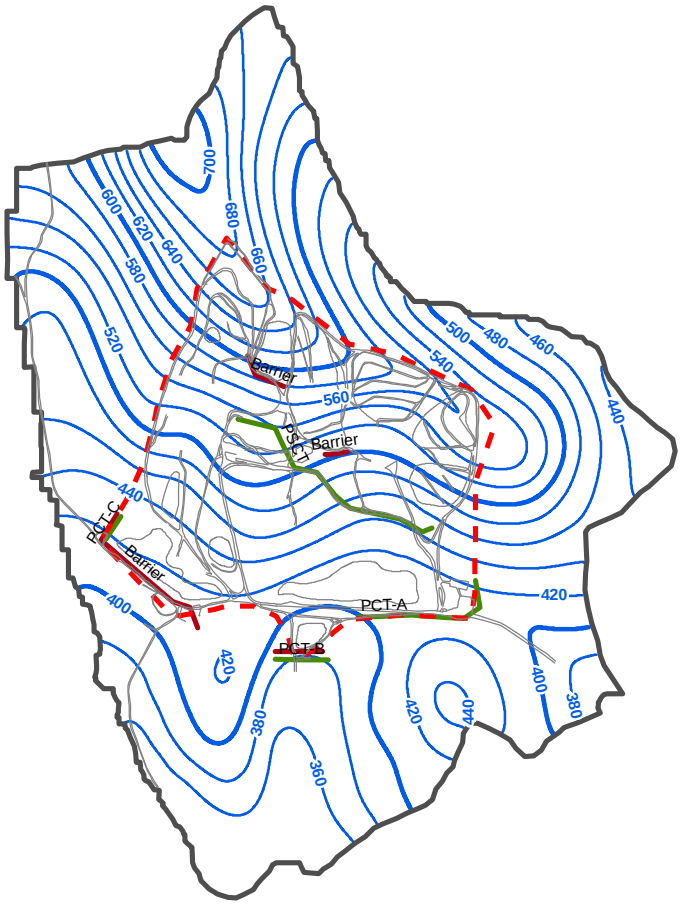
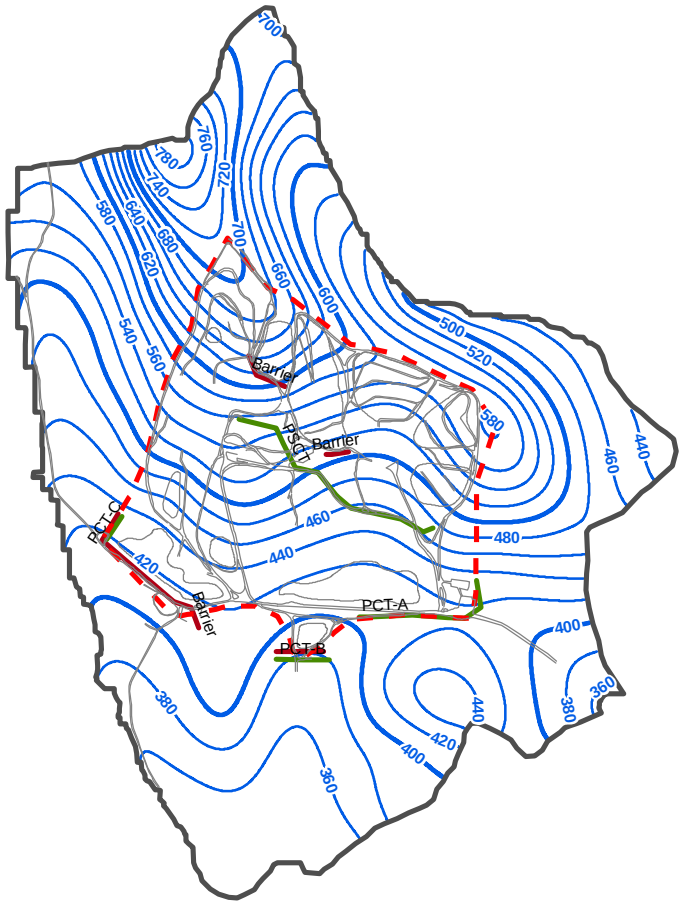
Modified Model



Original Model



FigureD1-18.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 7
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-18

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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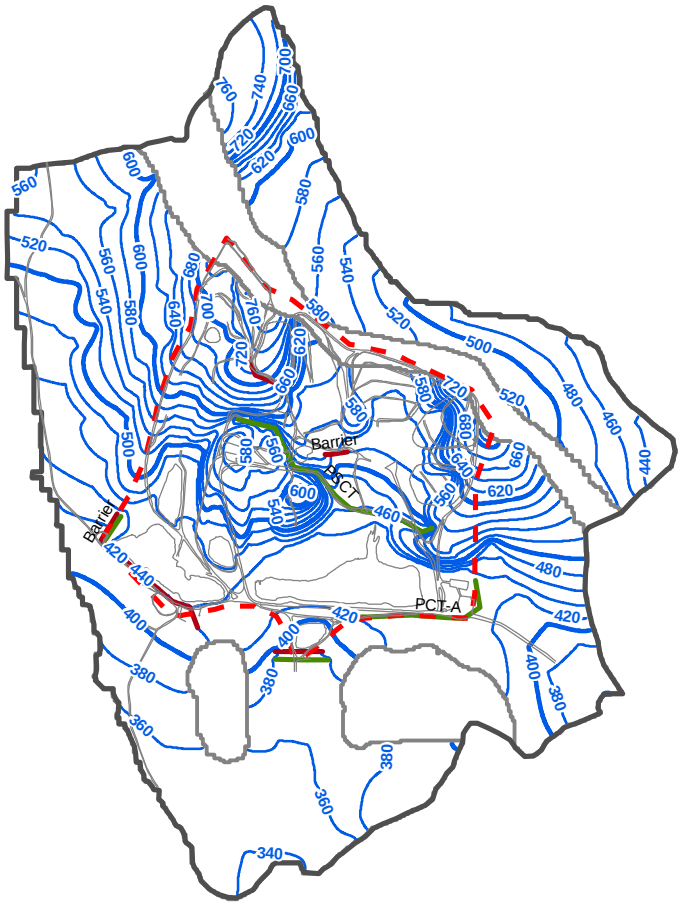
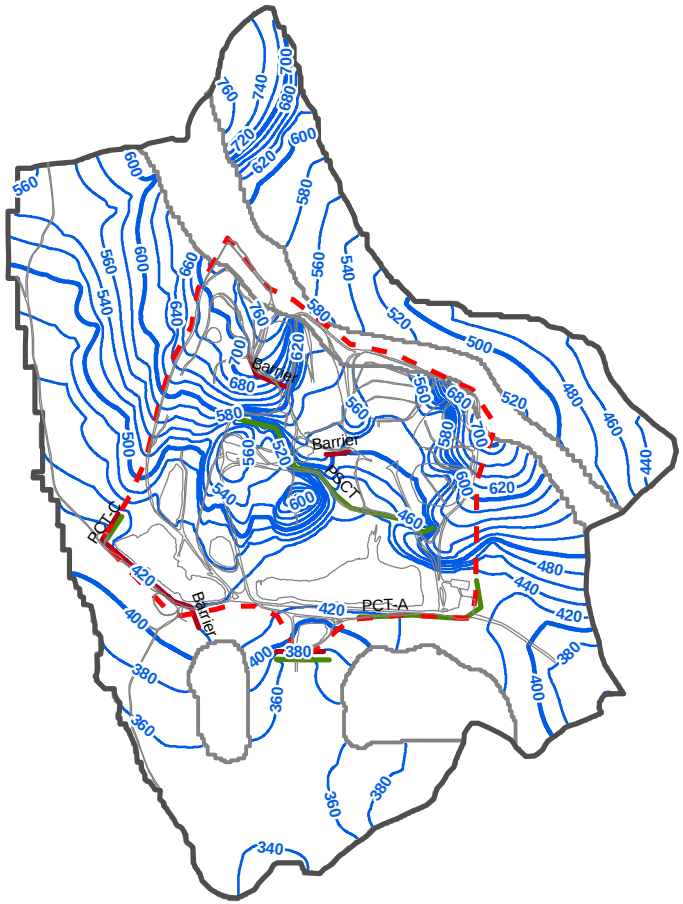
Modified Model



Original Model



FigureD1-19.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 1
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-19

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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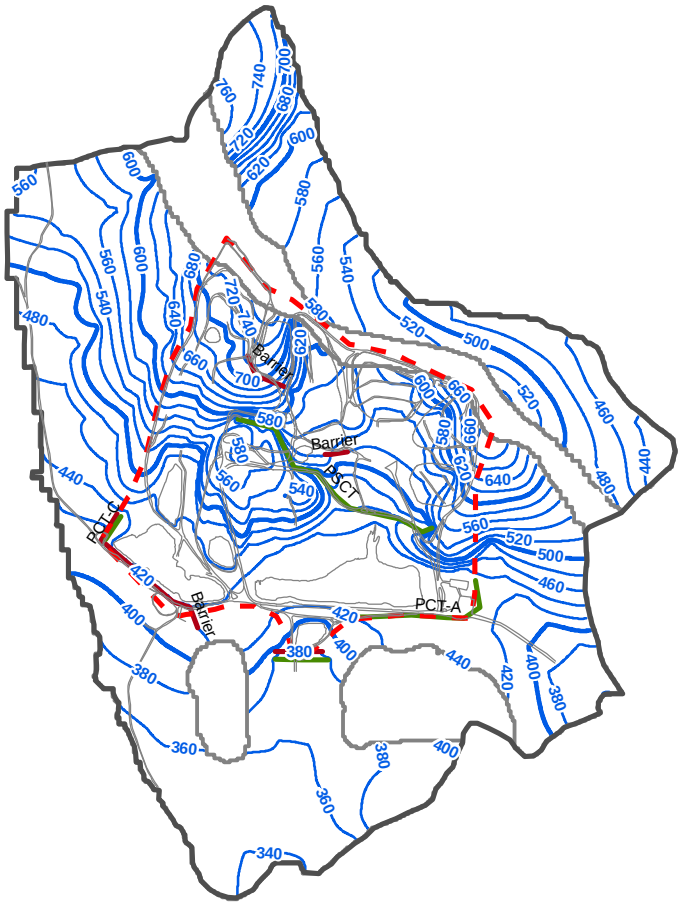
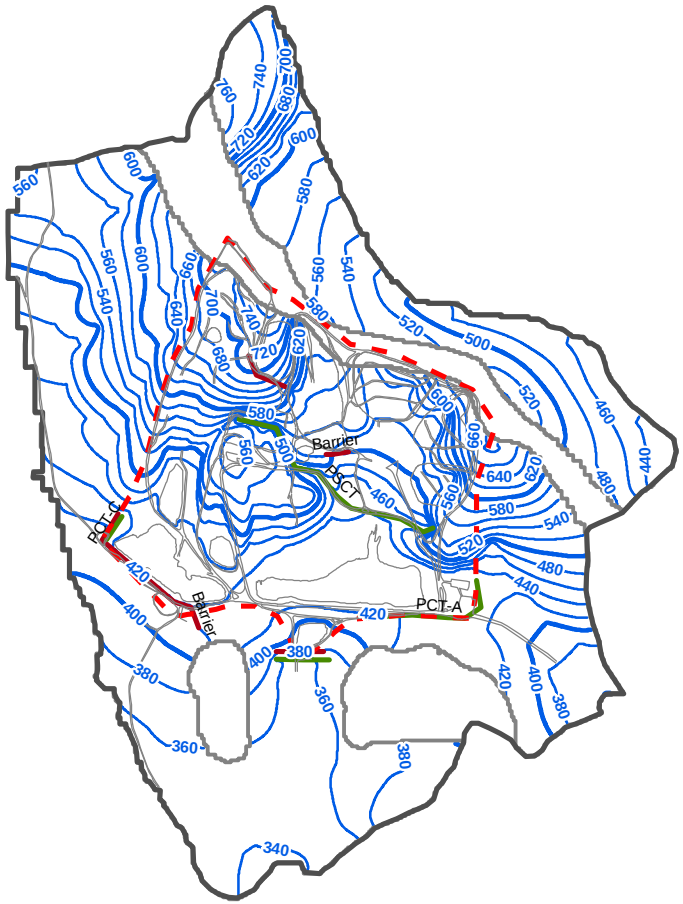
Modified Model



Original Model



FigureD1-20.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 2
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-20

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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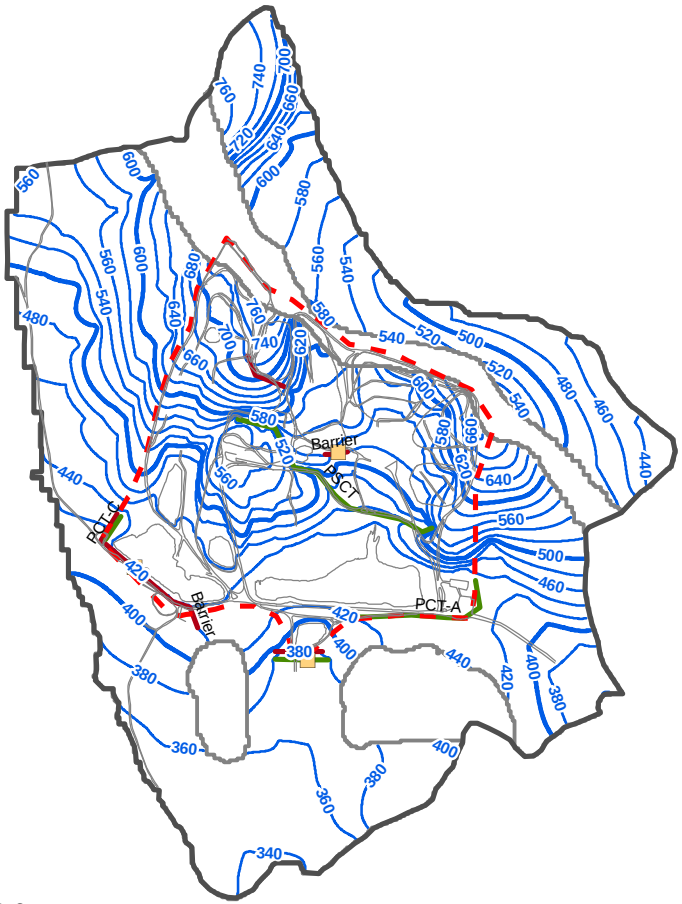
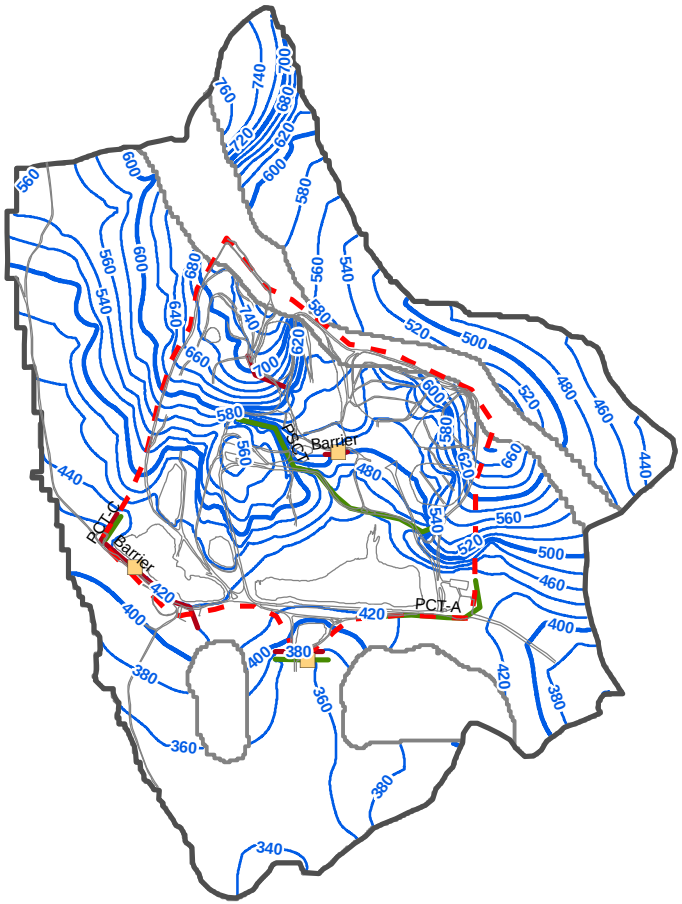
Modified Model



Original Model



FigureD1-21.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Upper HSU Extraction Wells

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 3
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-21

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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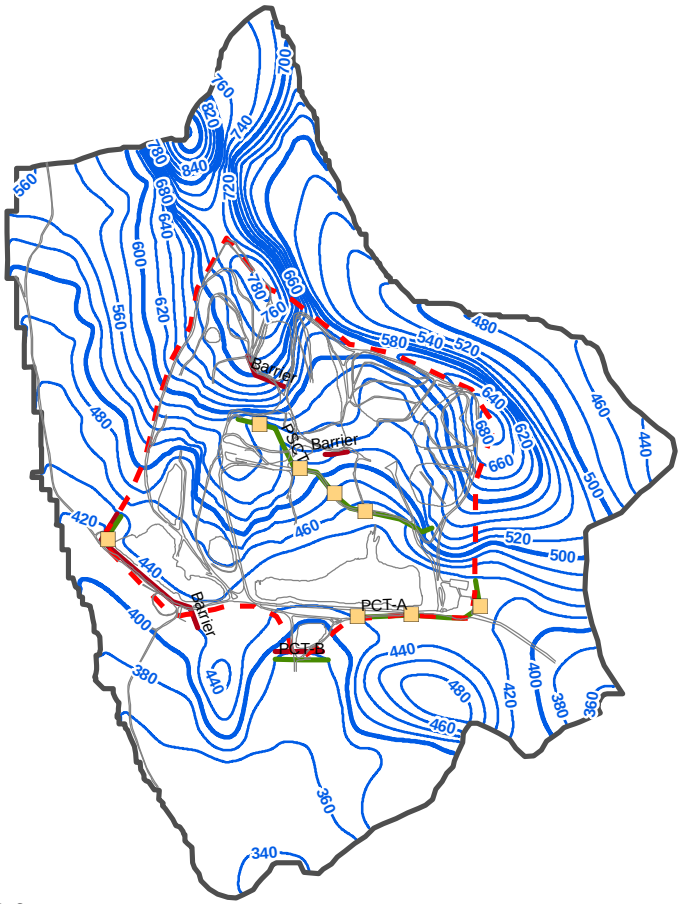
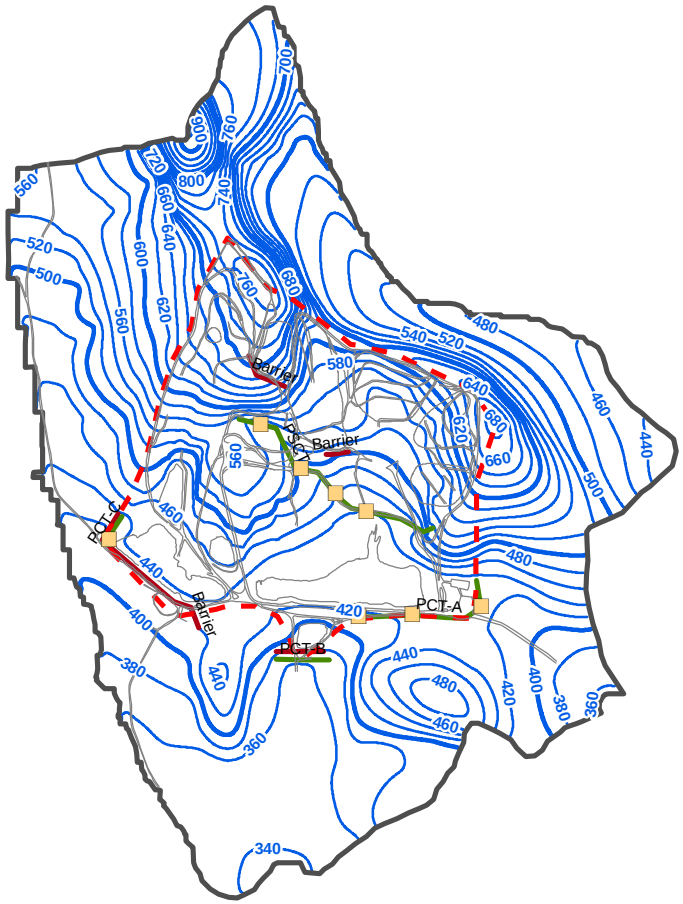
Modified Model



Original Model



FigureD1-22.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Lower HSU Extraction Wells

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 4
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-22

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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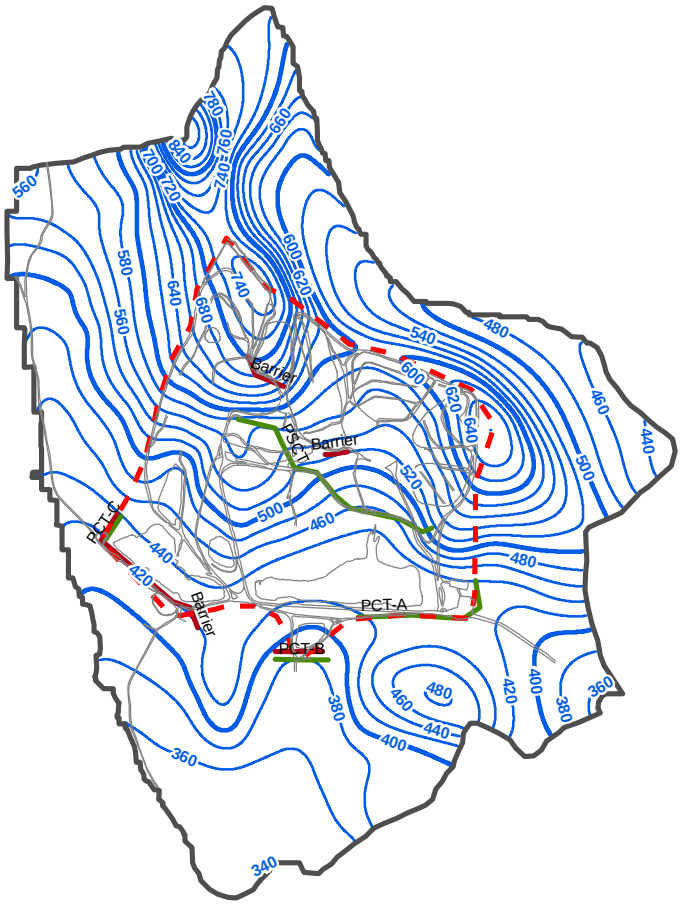
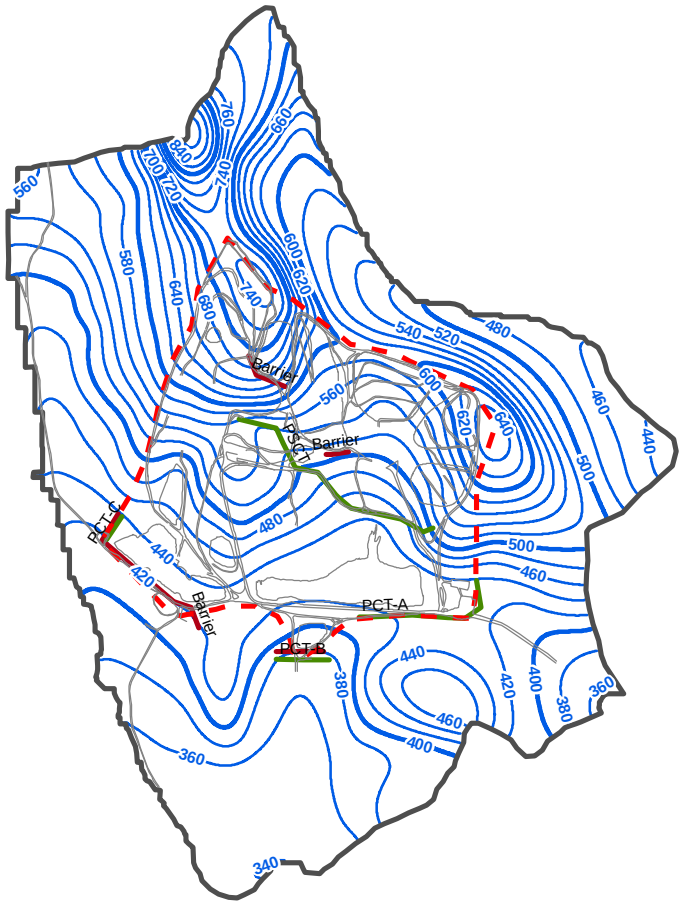
Modified Model



Original Model



FigureD1-23.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 5
Modified and Original 2001 (Wet Season) Models

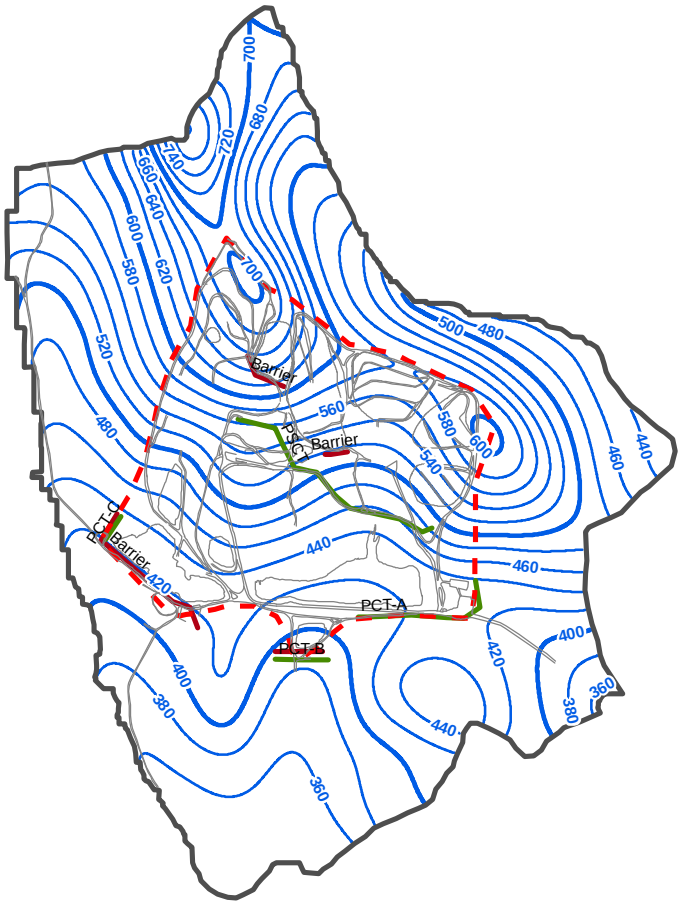
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

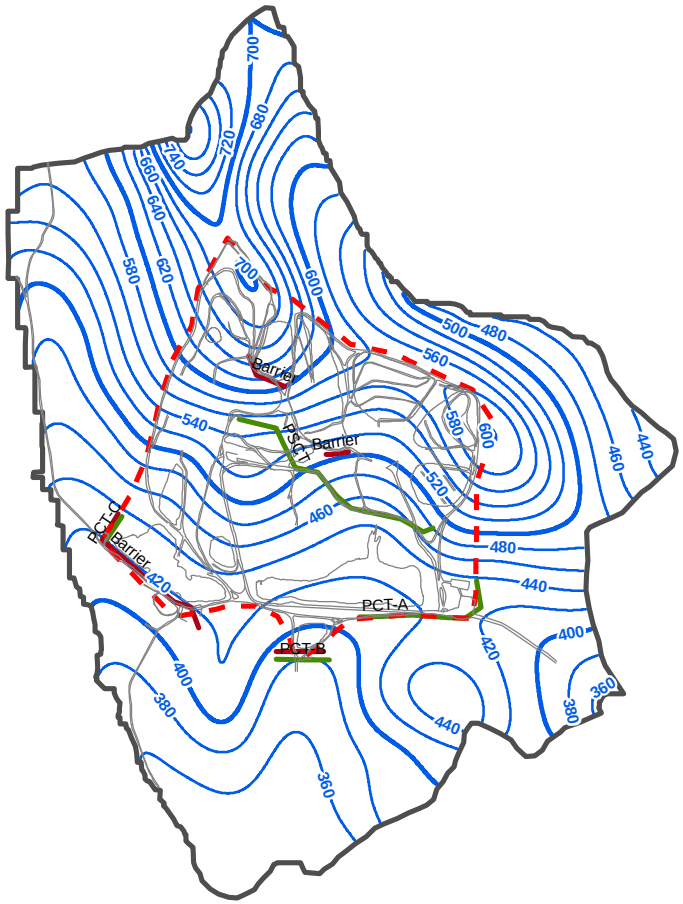
D1-23

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



FigureD1-24.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

Contoured Model Head Solution for Layer 6
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-24

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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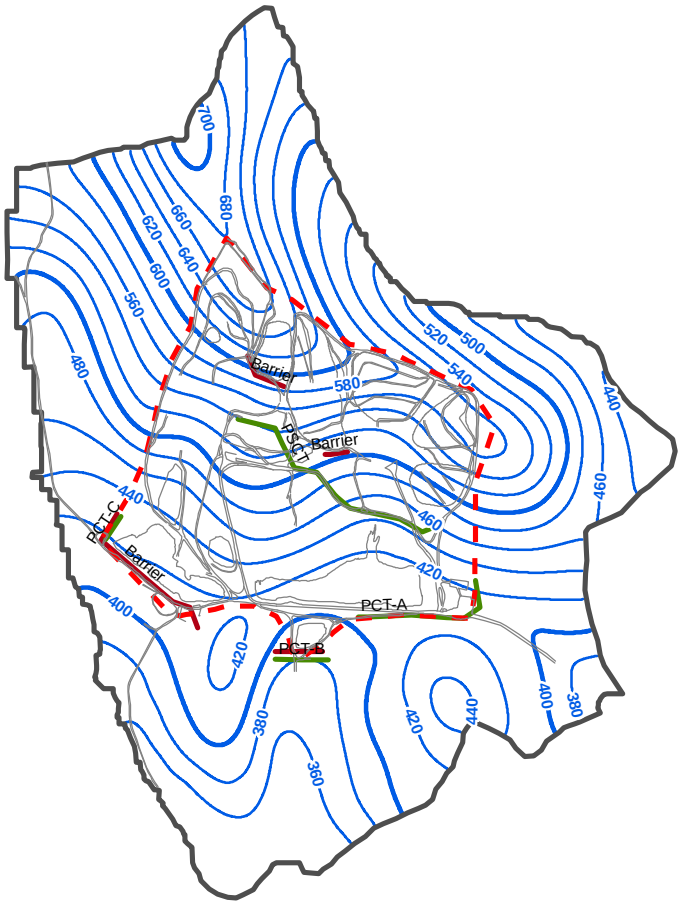
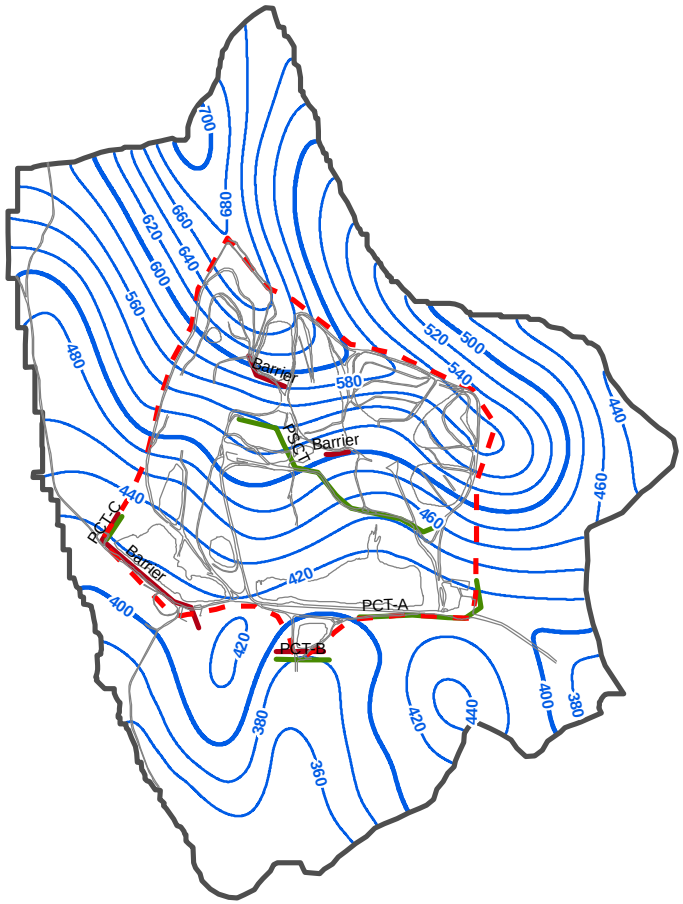
Modified Model



Original Model



FigureD1-25.mxd

Explanation

Groundwater Elevation Contour (ft msl)

Zone 1 Boundary

0 750 1,500 3,000 Feet

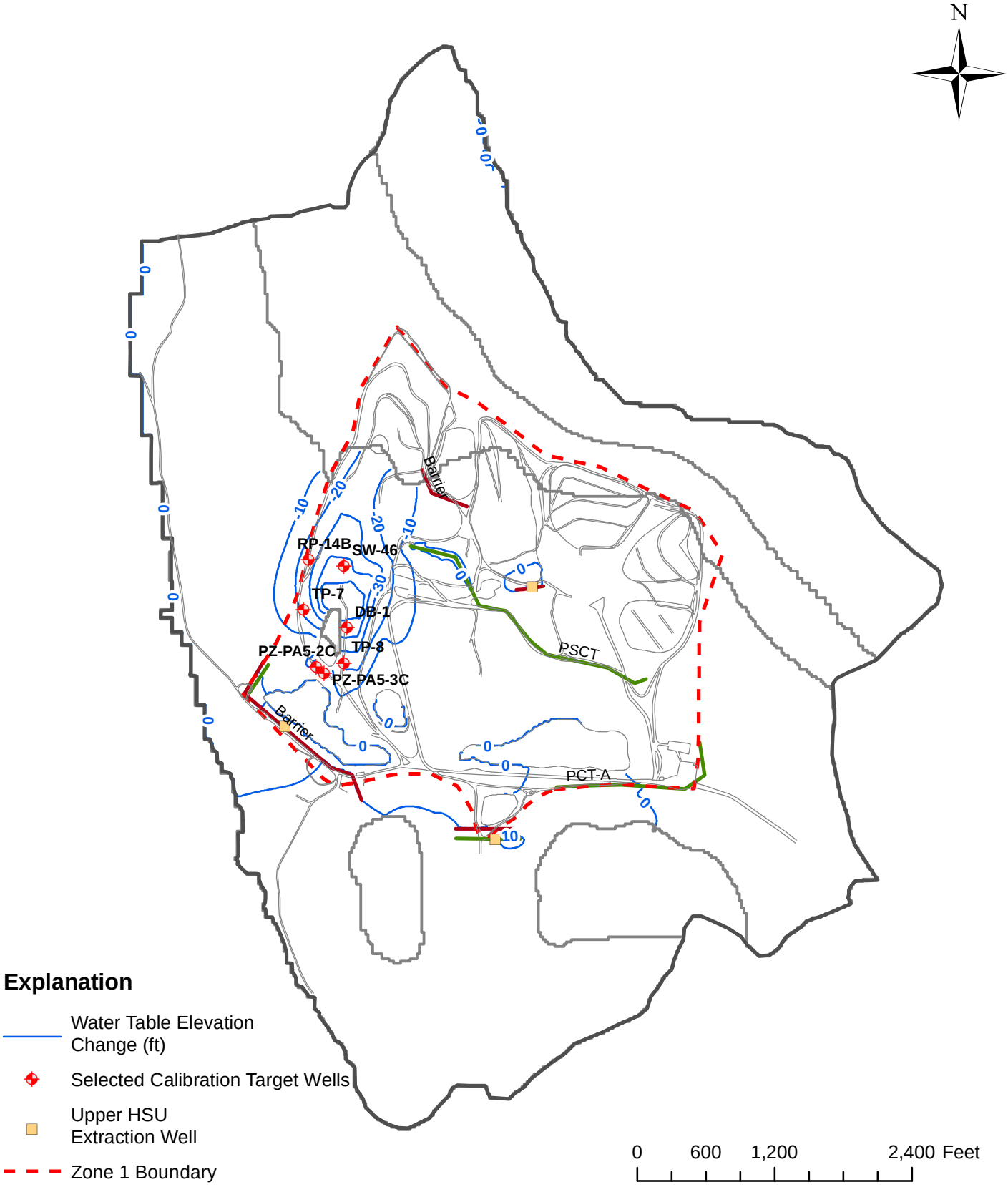
Contoured Model Head Solution for Layer 7
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-25

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

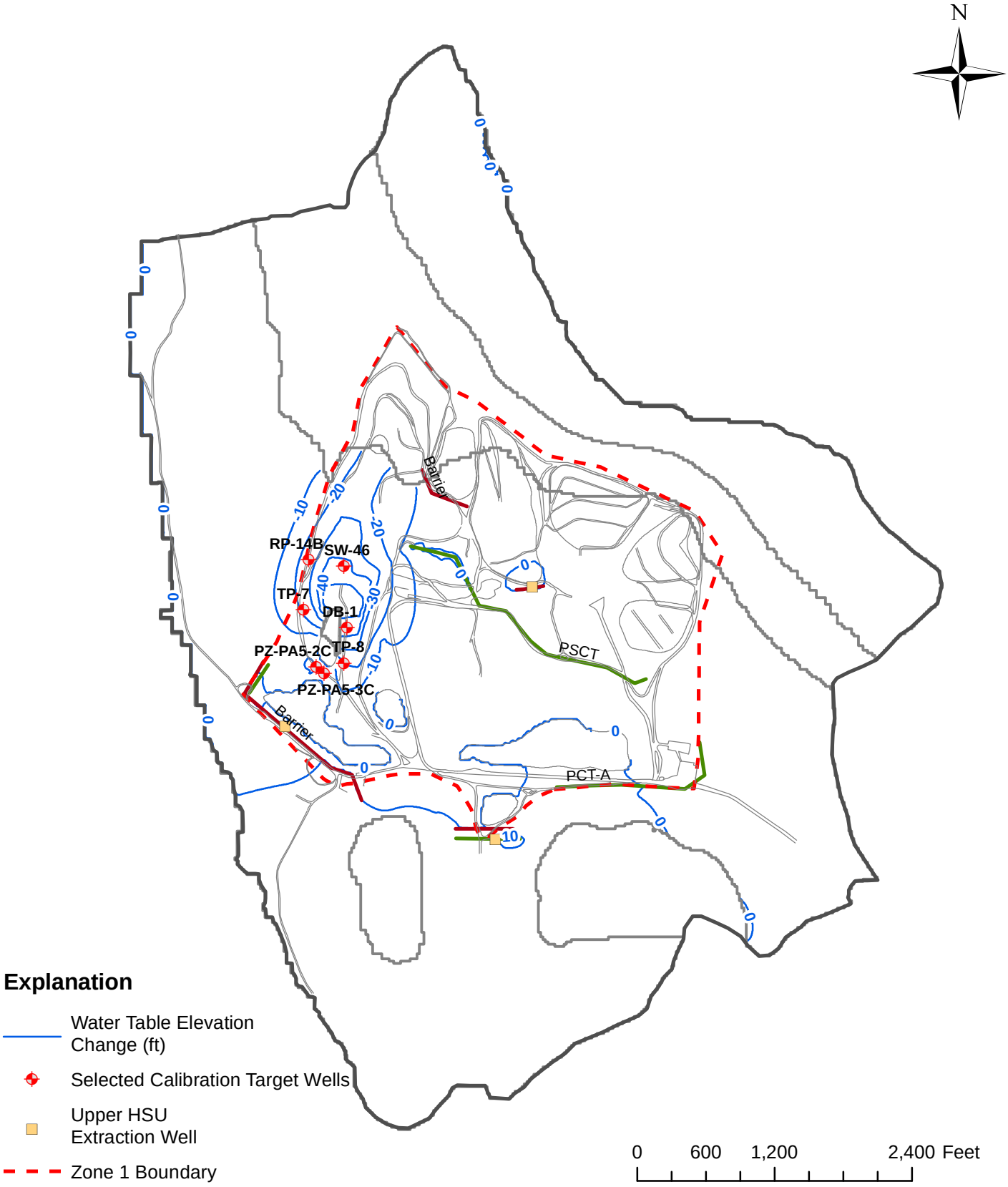


FigureD1-26.mxd

Contoured Model Head Solution Difference for Layer 1
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-26

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

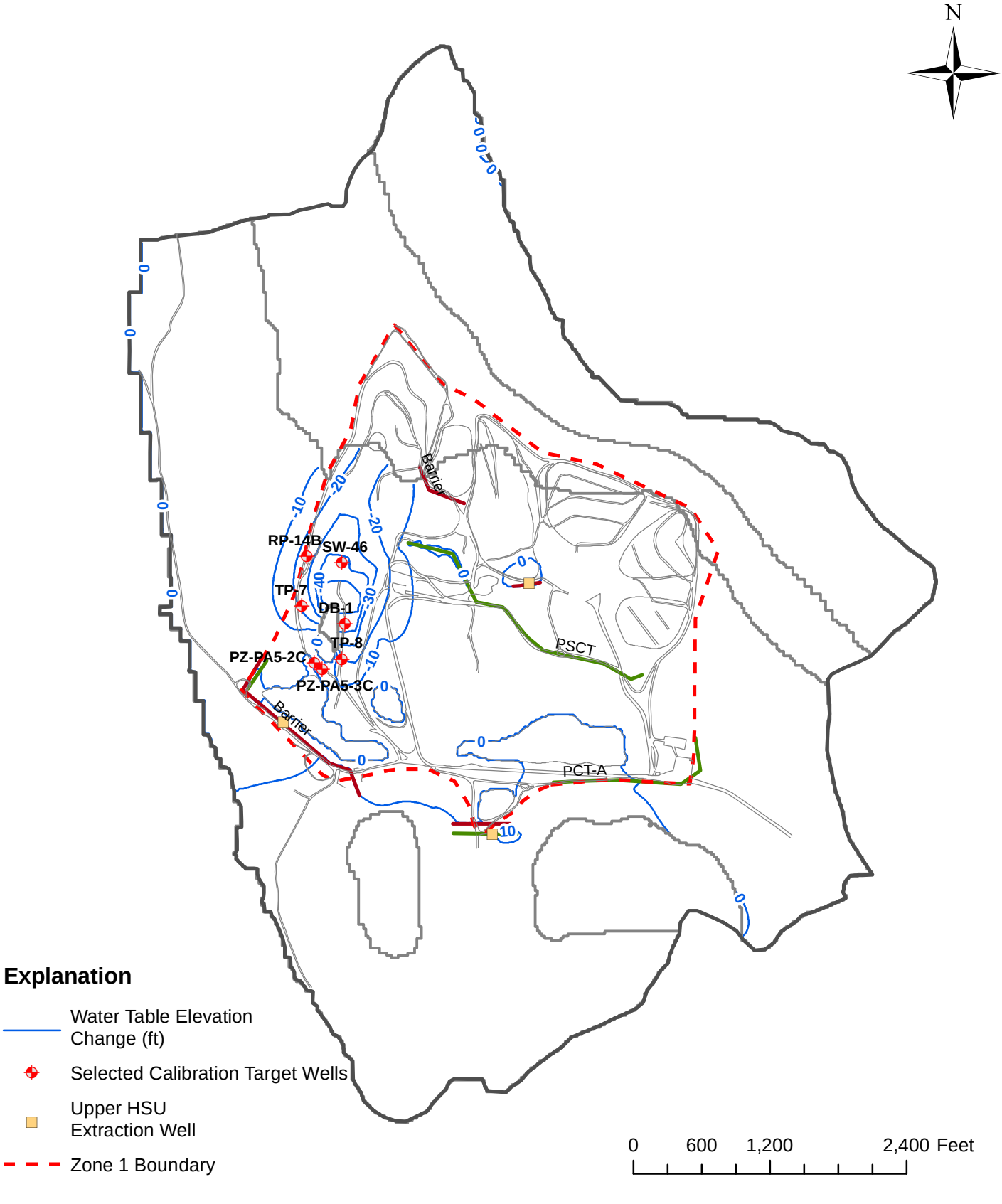


FigureD1-27.mxd

Contoured Model Head Solution Difference for Layer 2
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-27

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

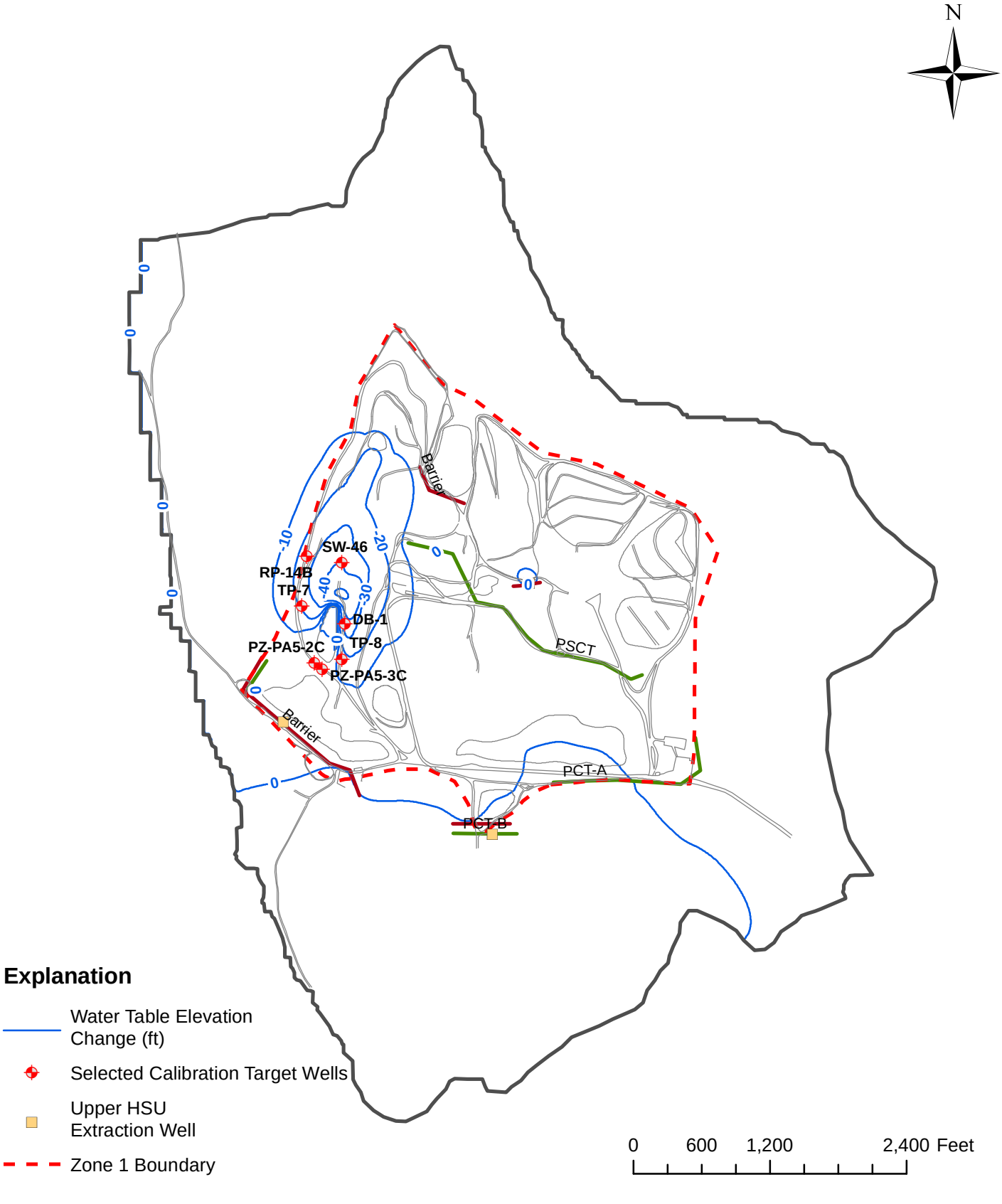


FigureD1-28.mxd

Contoured Model Head Solution Difference for Layer 3
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-28

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

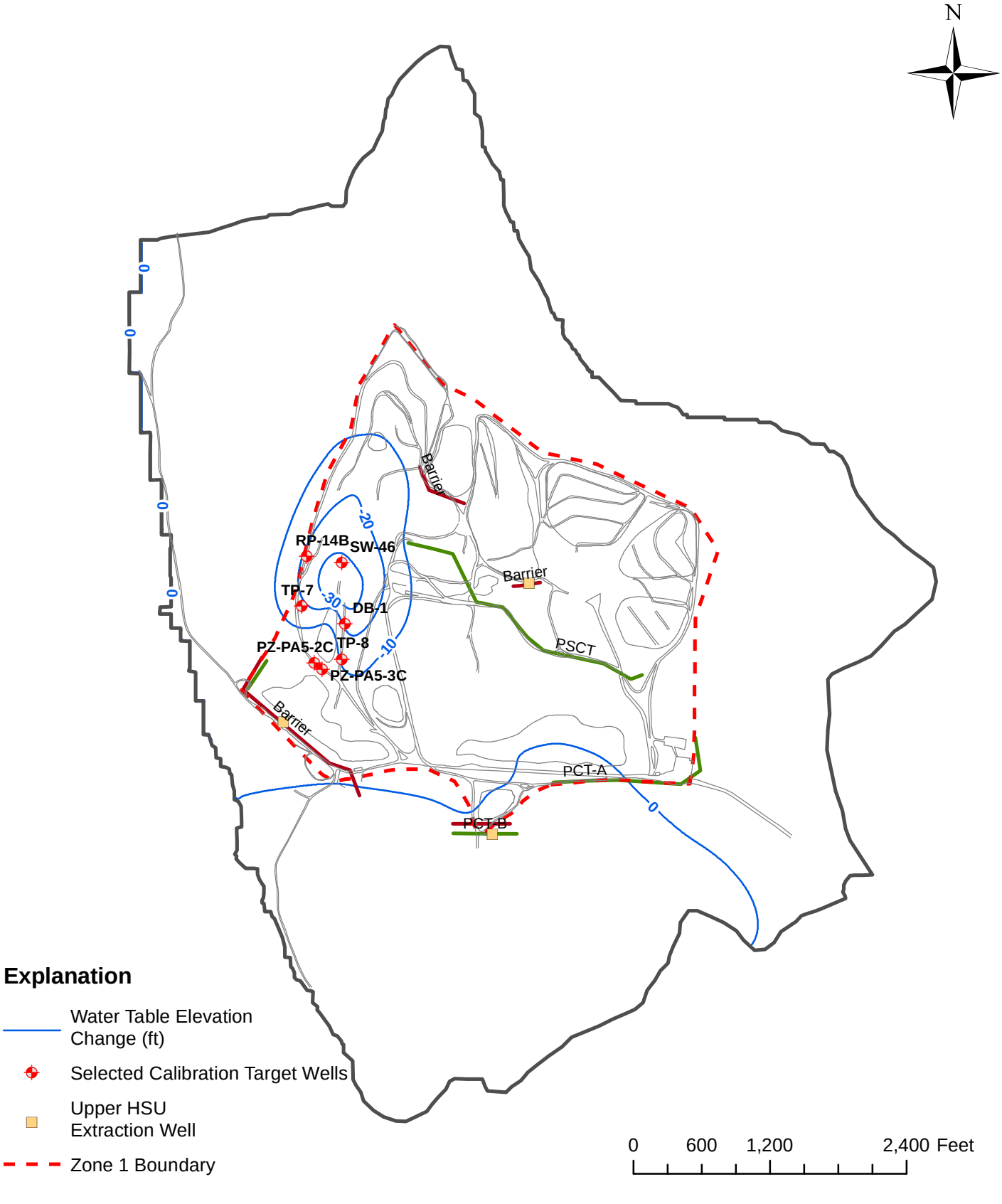


FigureD1-29.mxd

Contoured Model Head Solution Difference for Layer 4
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-29

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



FigureD1-30.mxd

Contoured Model Head Solution Difference for Layer 5
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-30

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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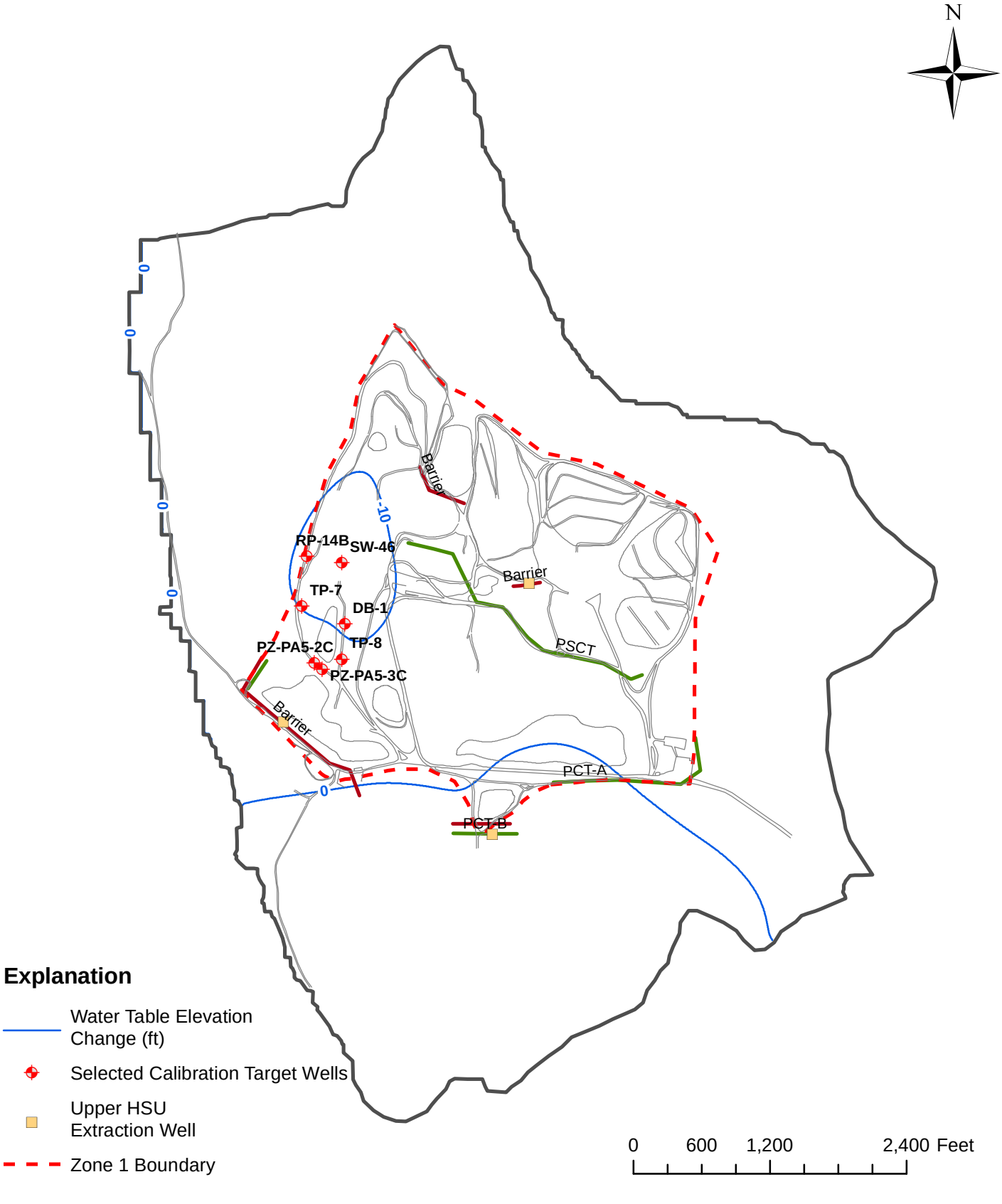
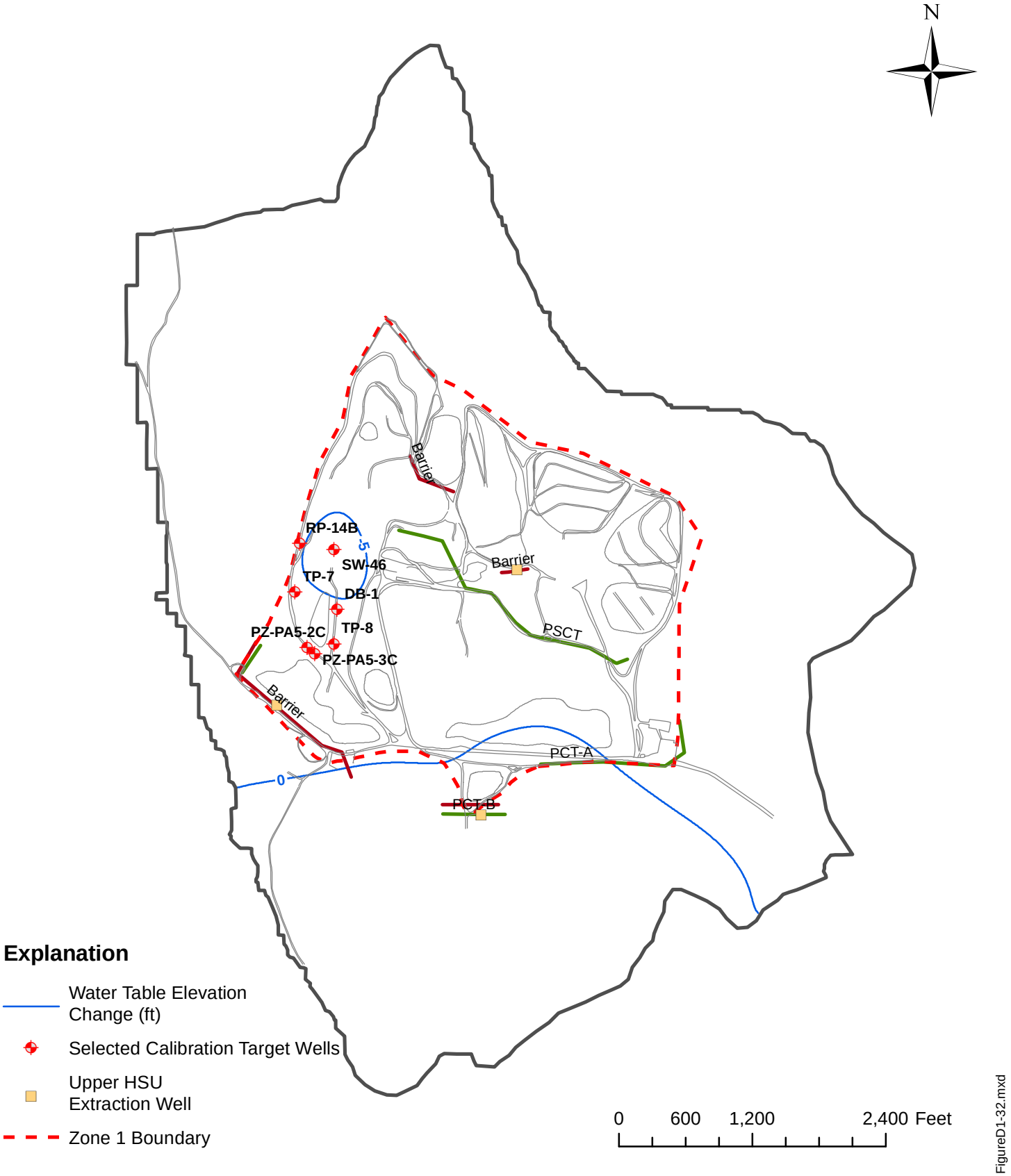


FigureD1-31.mxd

Contoured Model Head Solution Difference for Layer 6
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-31

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

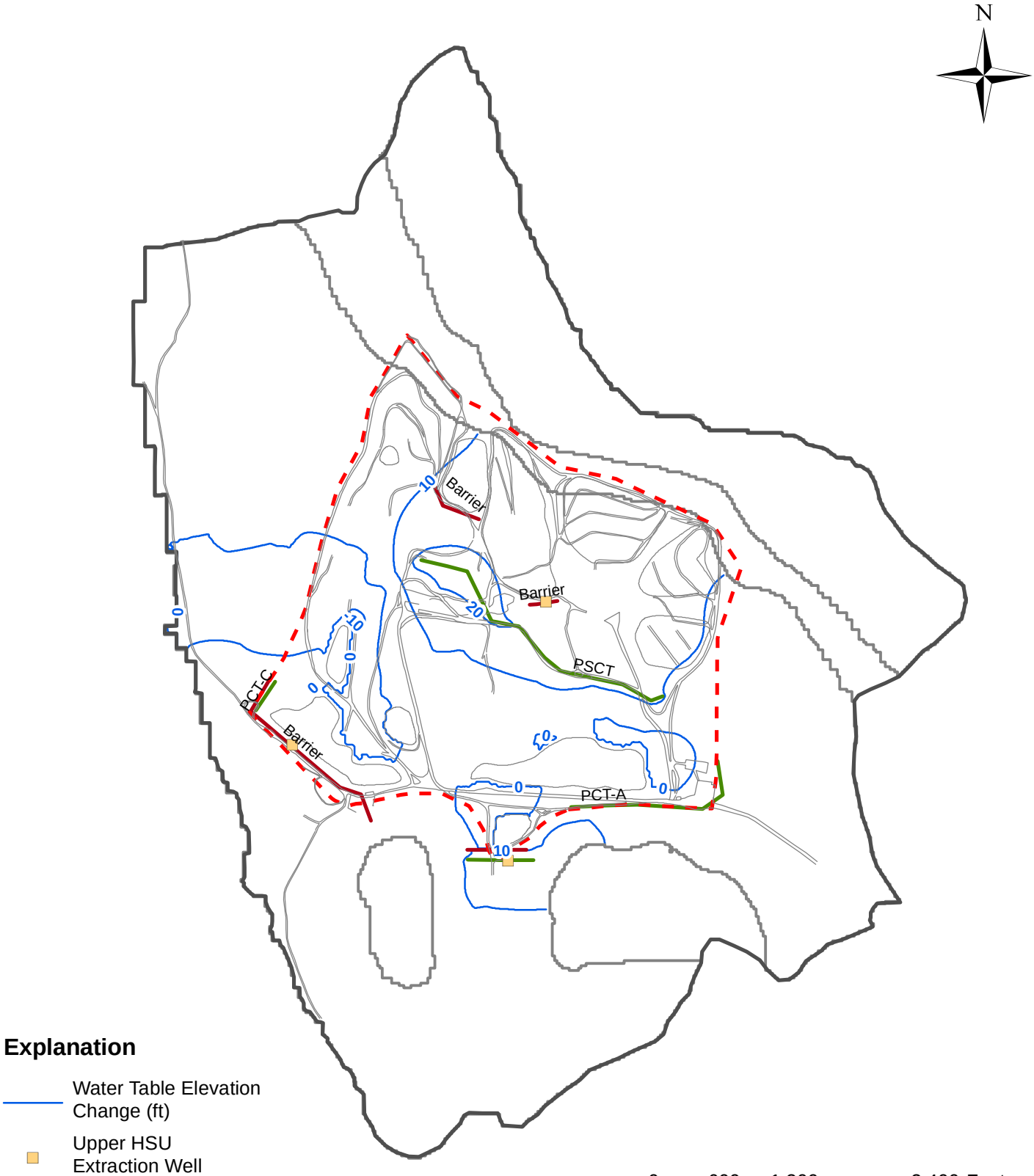


FigureD1-32.mxd

Contoured Model Head Solution Difference for Layer 7
Modified and Original 2004 (Dry Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-32

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

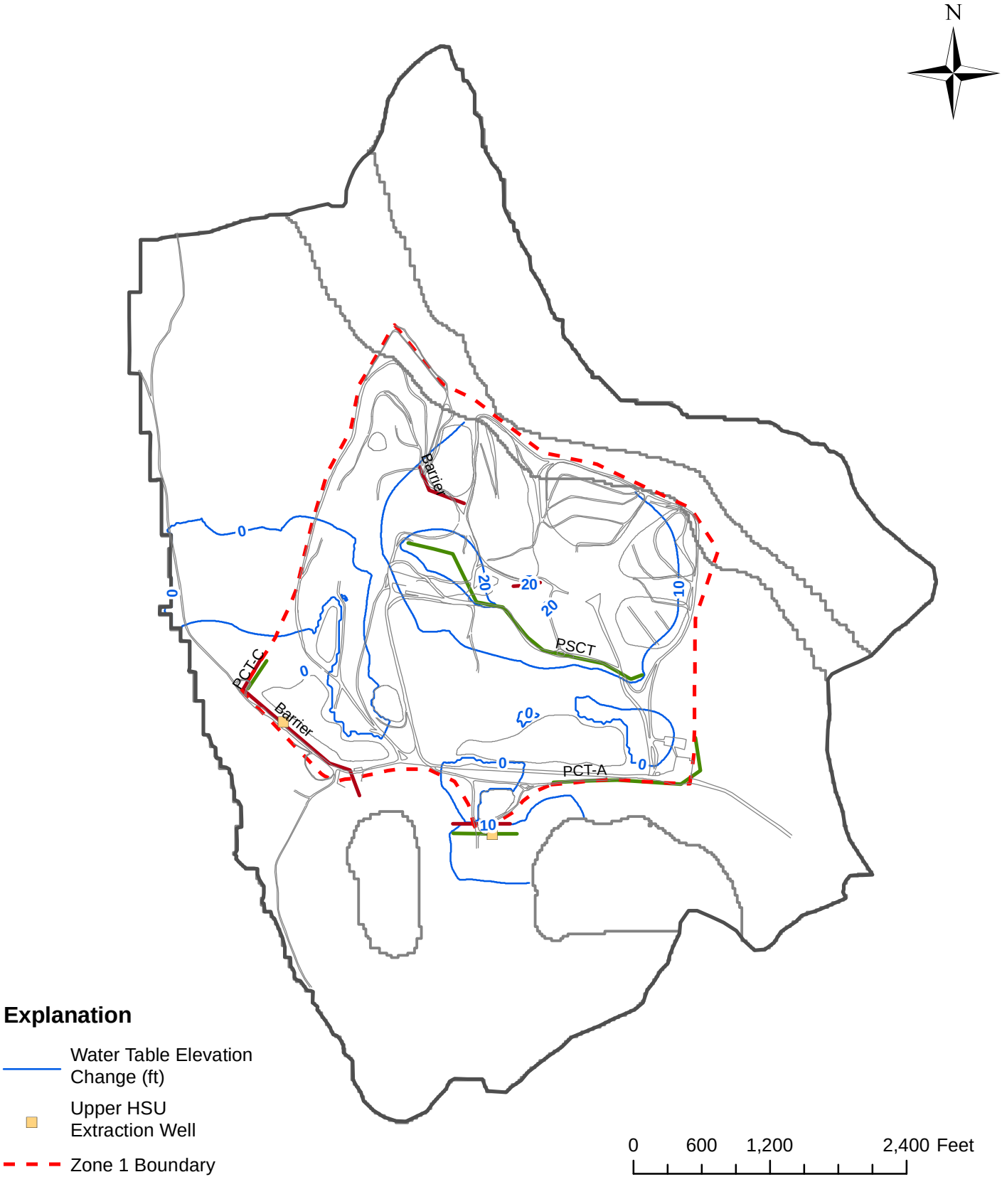


FigureD1-33.mxd

Contoured Model Head Solution Difference for Layer 1
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-33

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

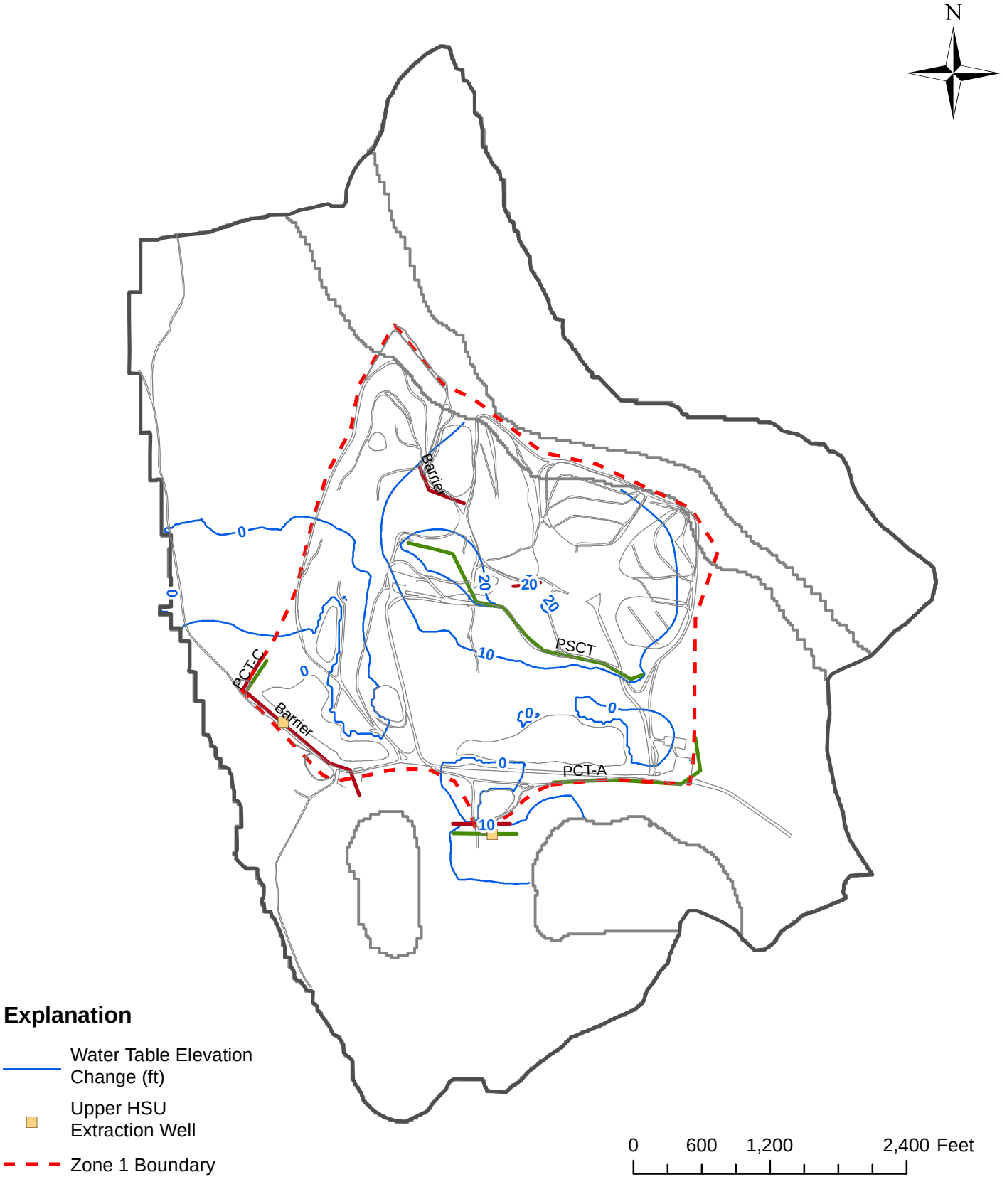


FigureD1-34.mxd

Contoured Model Head Solution Difference for Layer 2
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-34

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

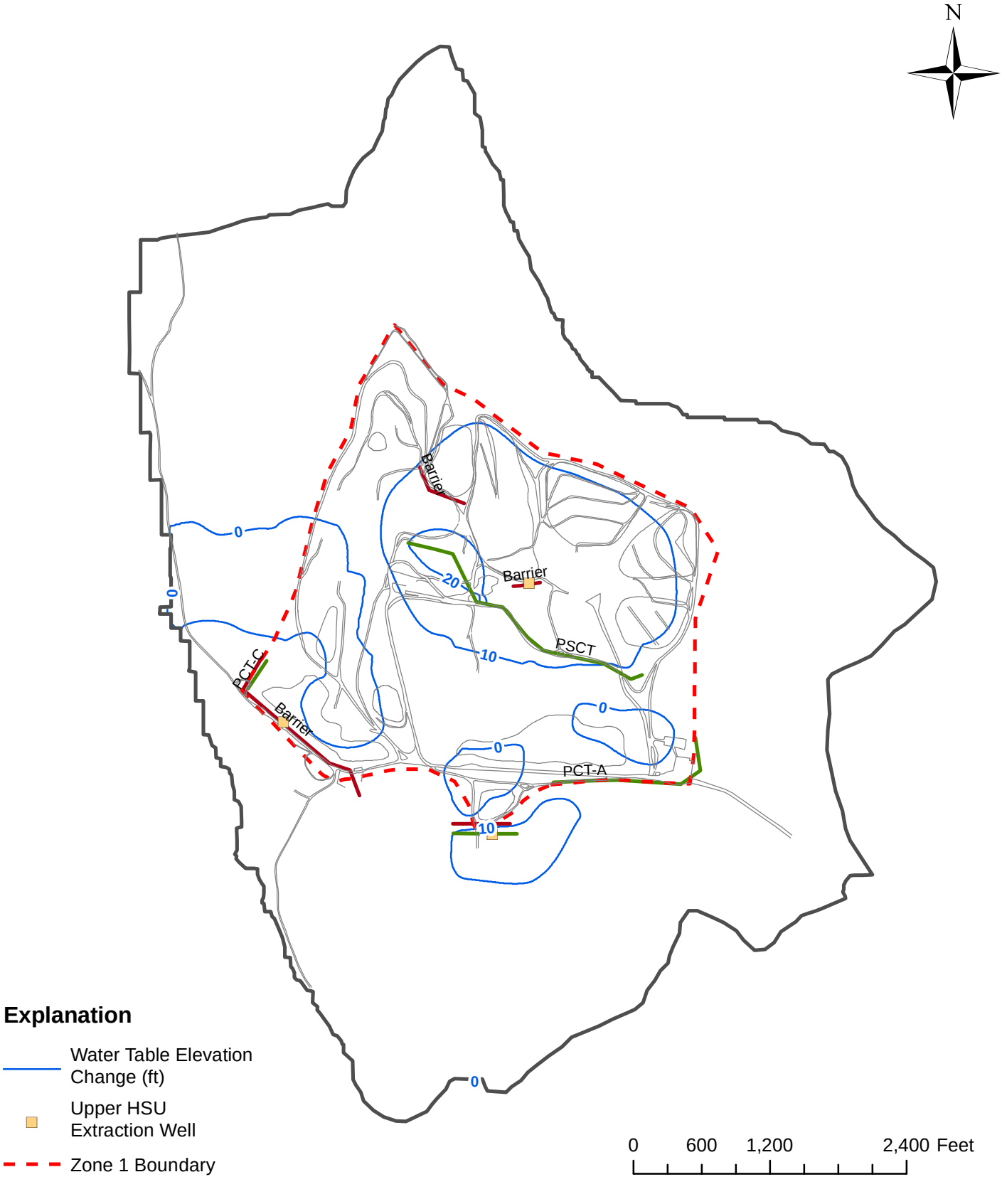


FigureD1-35.mxd

Contoured Model Head Solution Difference for Layer 3
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-35

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

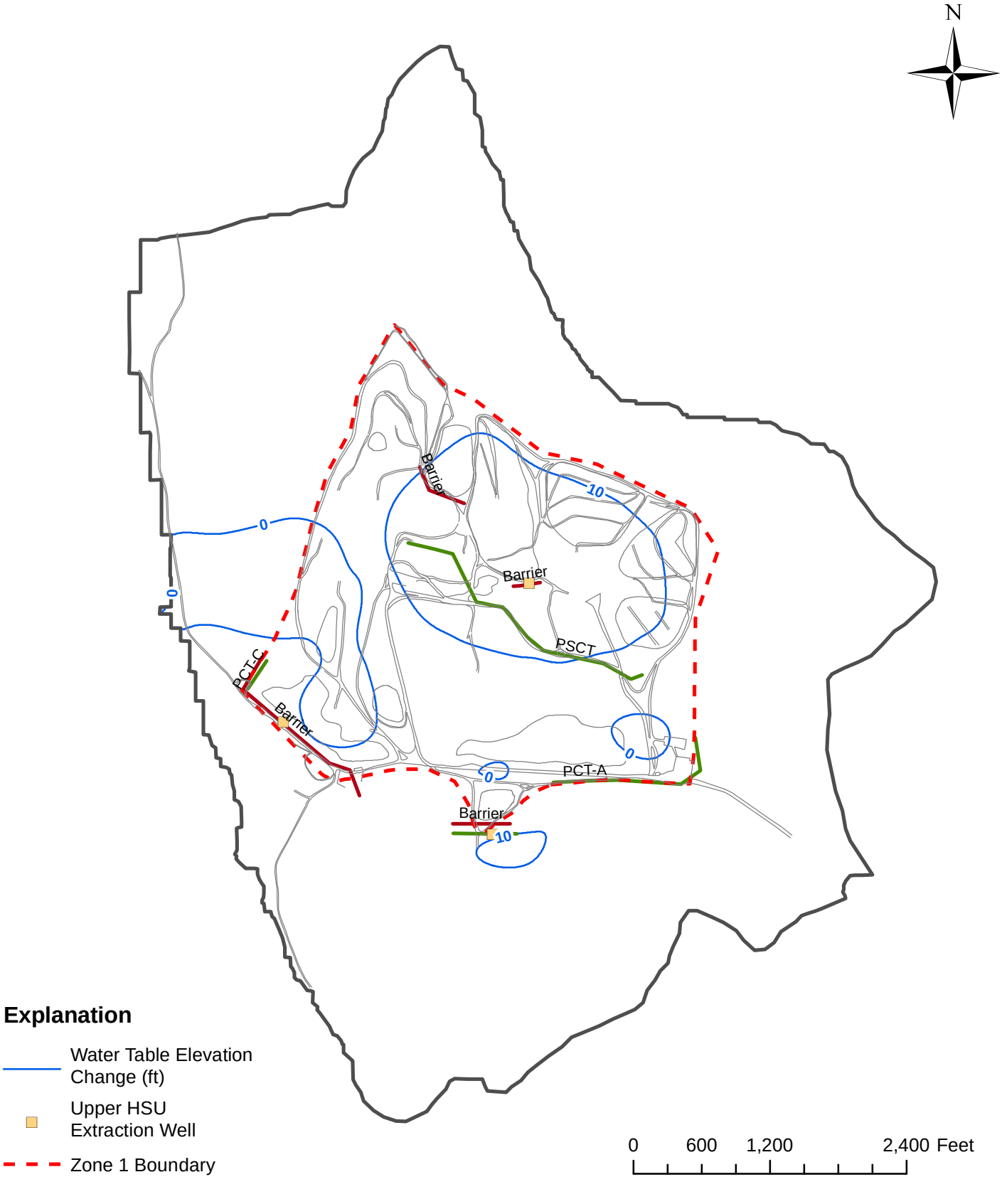


FigureD1-36.mxd

Contoured Model Head Solution Difference for Layer 4
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-36

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

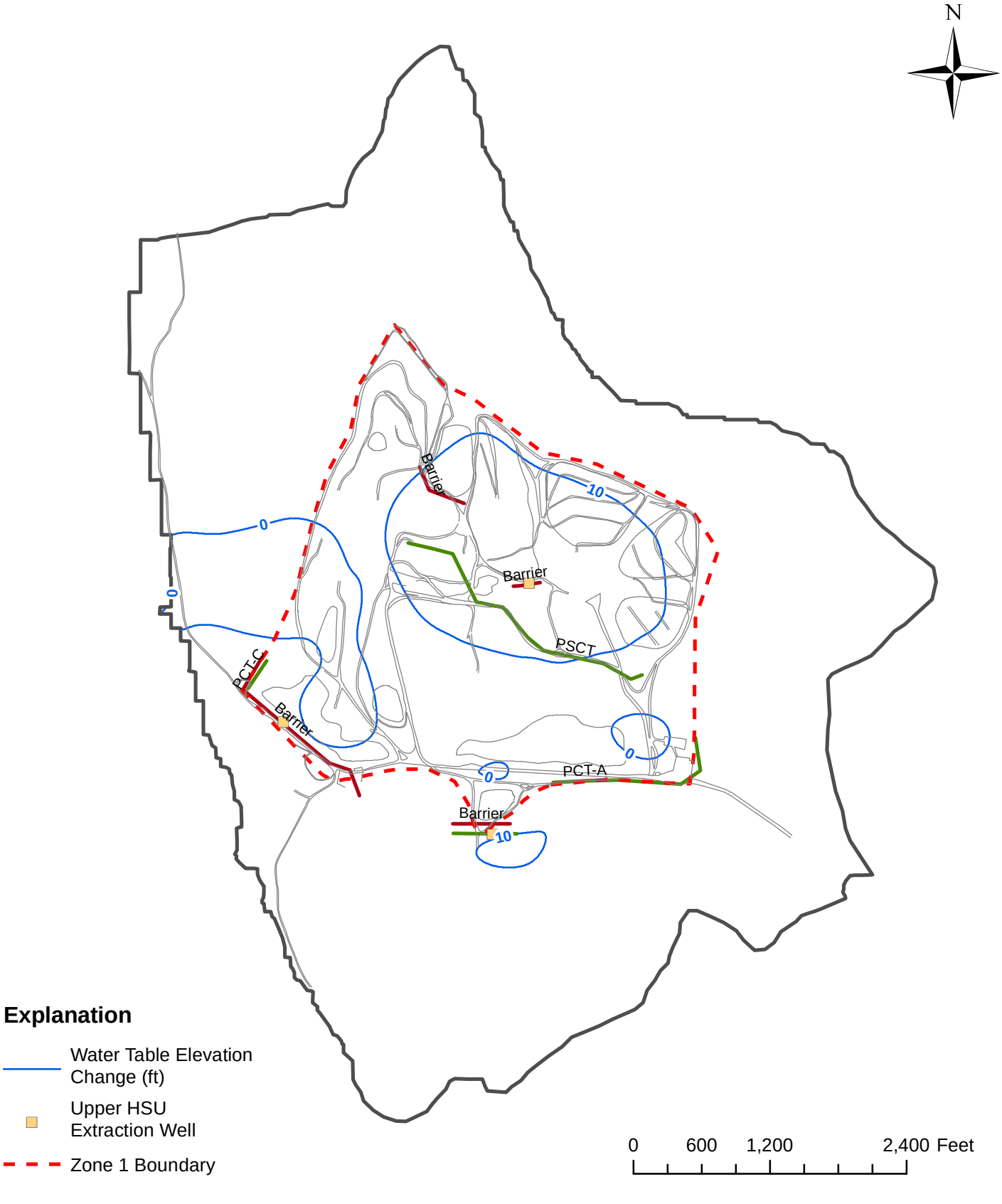


FigureD1-37.mxd

Contoured Model Head Solution Difference for Layer 5
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-37

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

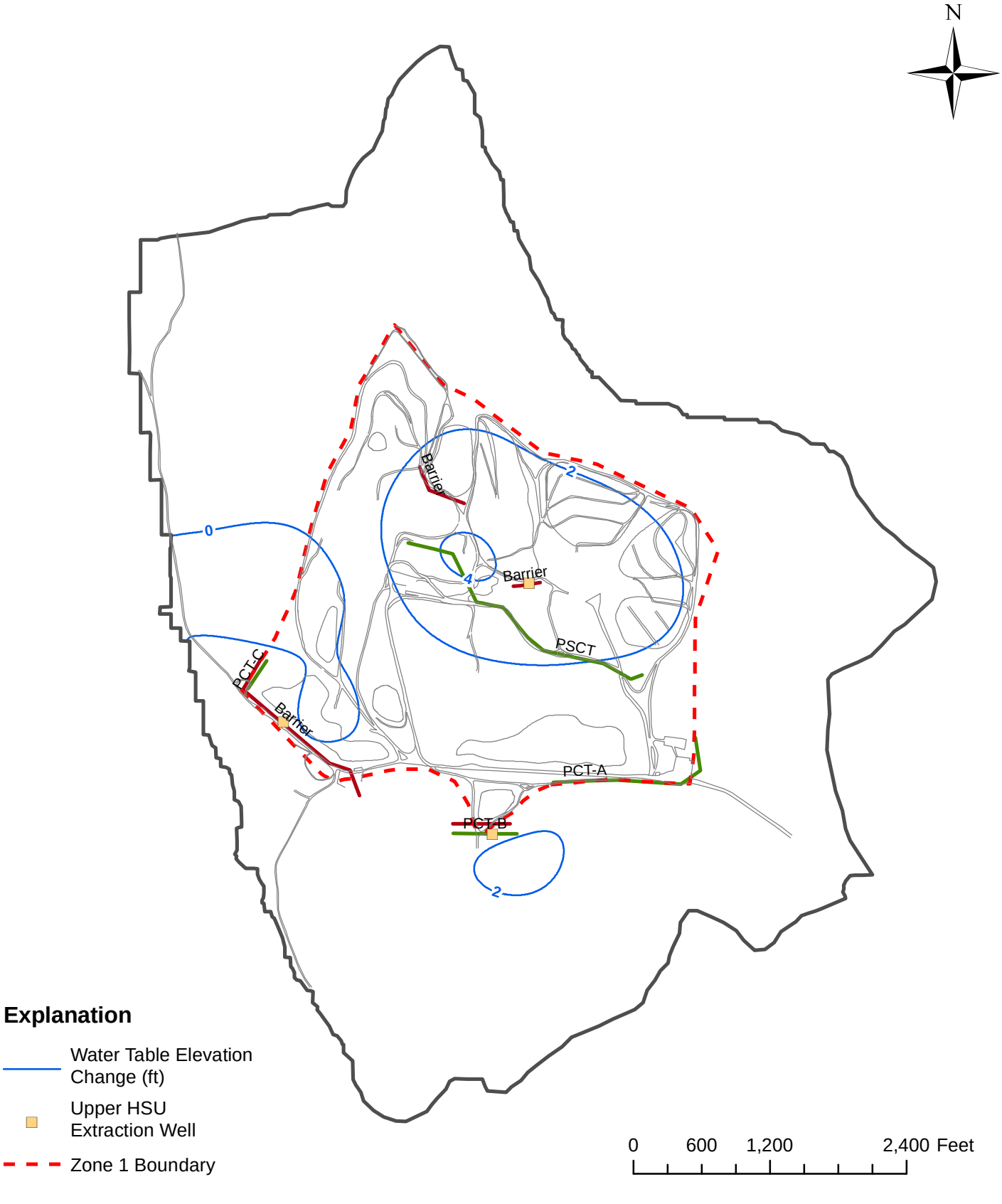


FigureD1-38.mxd

Contoured Model Head Solution Difference for Layer 6
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-38

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



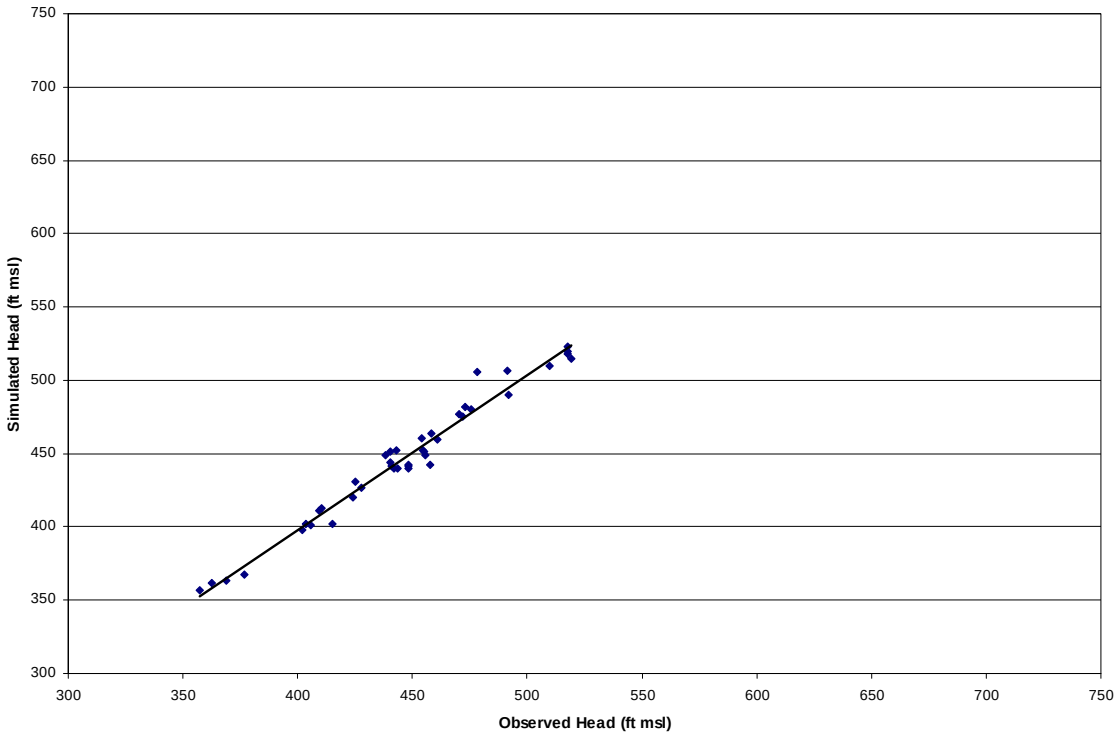
FigureD1-39.mxd

Contoured Model Head Solution Difference for Layer 7
Modified and Original 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

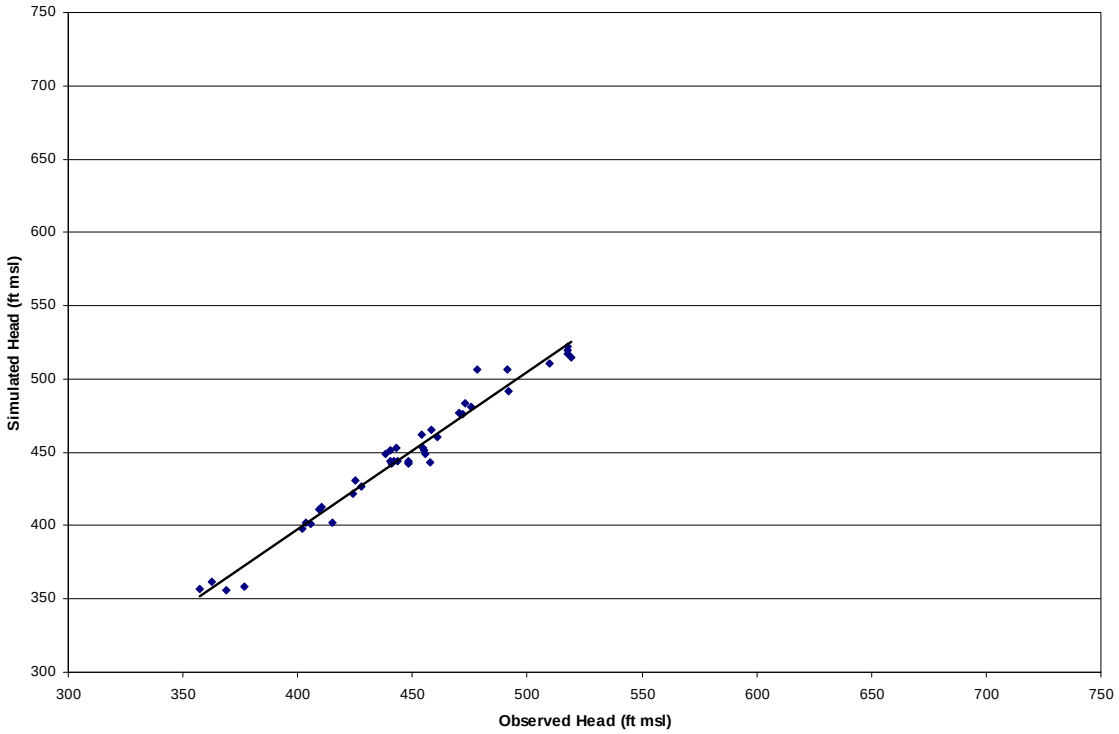
FIGURE
D1-39

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-40.mxd

Observed Versus Simulated Regression Charts for Layer 1
Modified and Original 2004 (Dry Season) Models

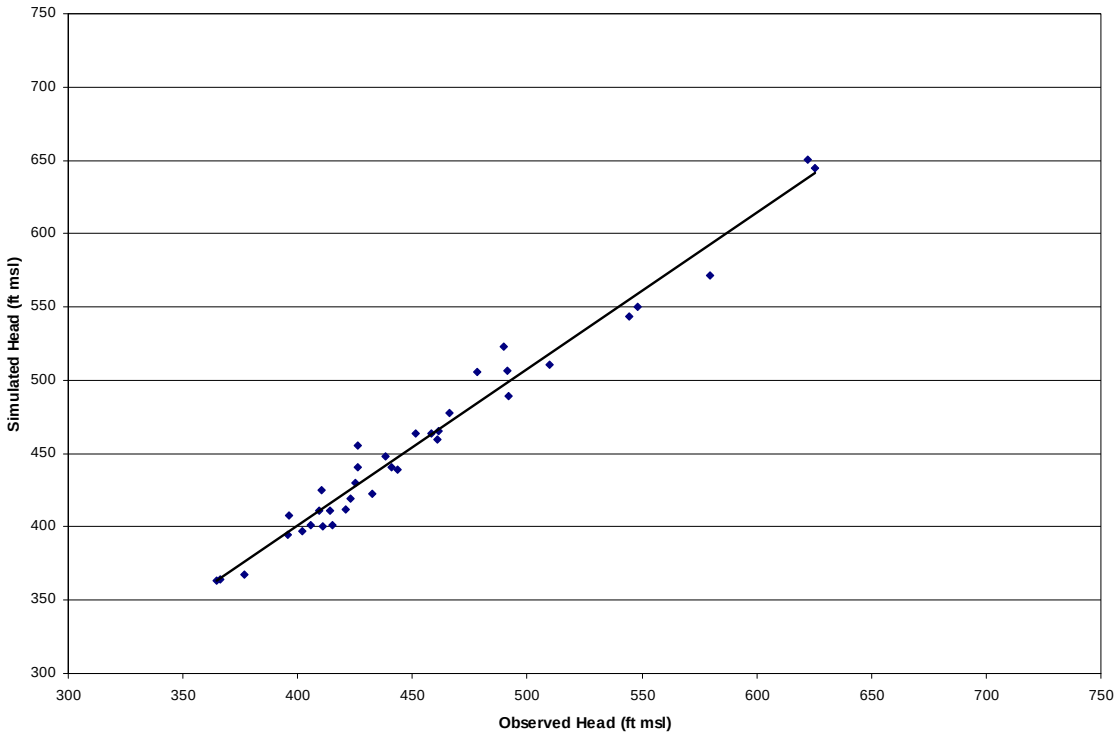
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

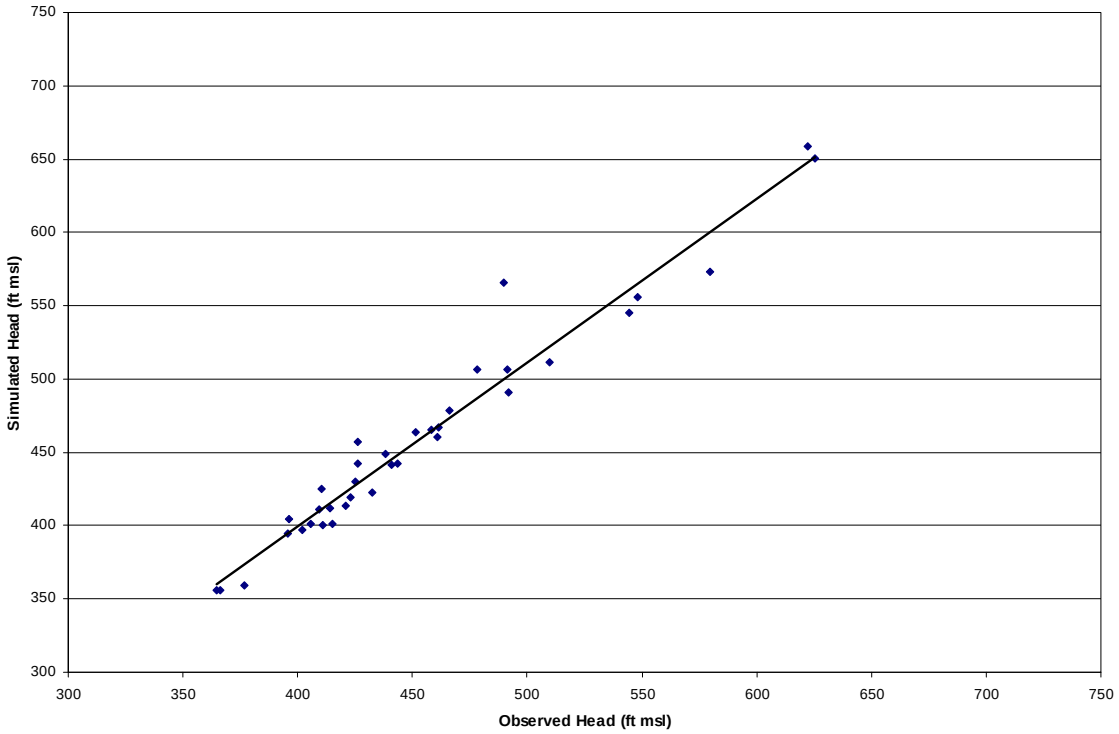
D1-40

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-41.mxd

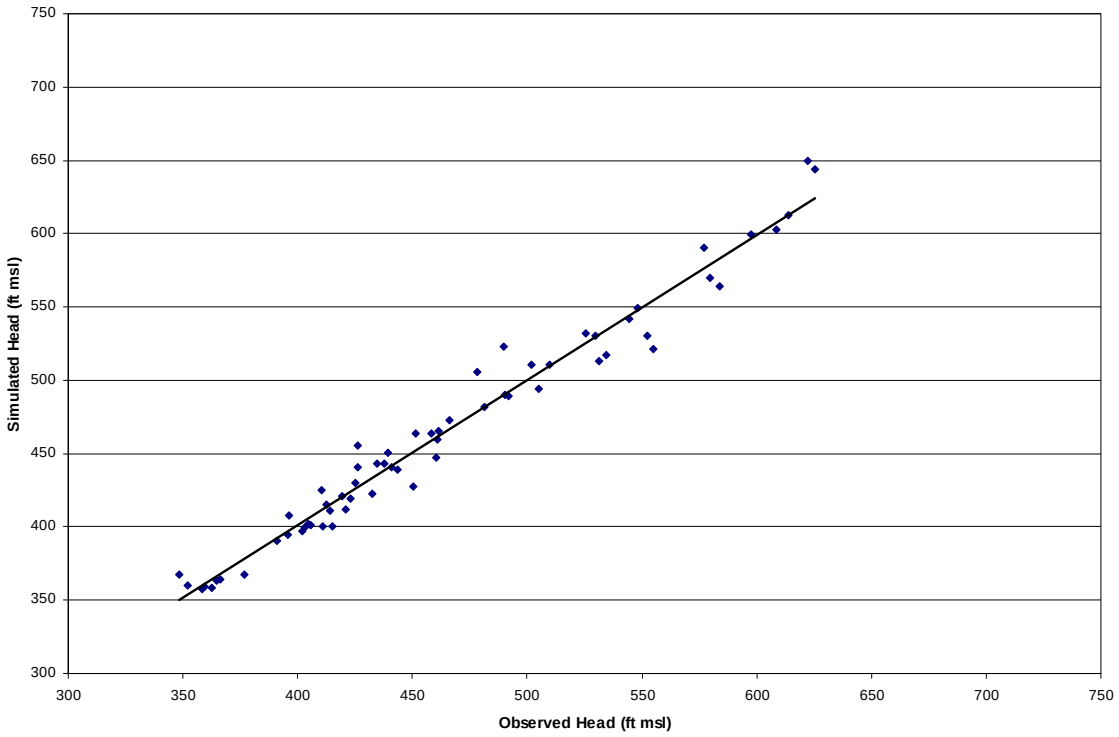
Observed Versus Simulated Regression Charts for Layer 2
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

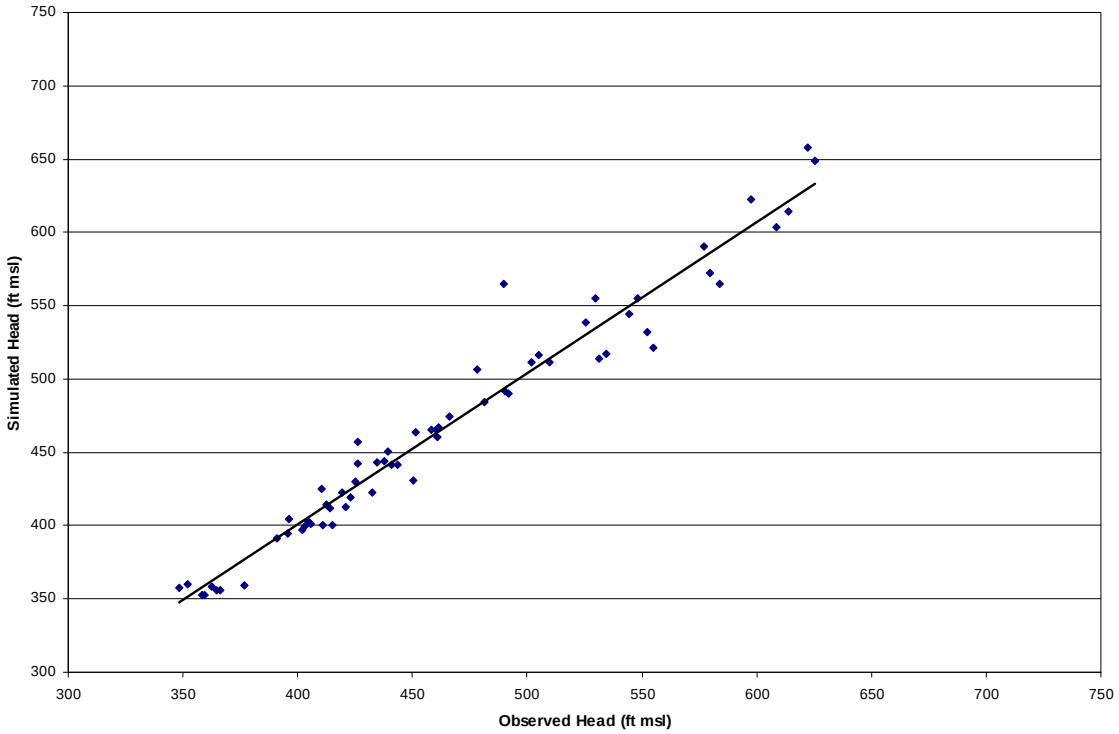
FIGURE
D1-41

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-42.mxd

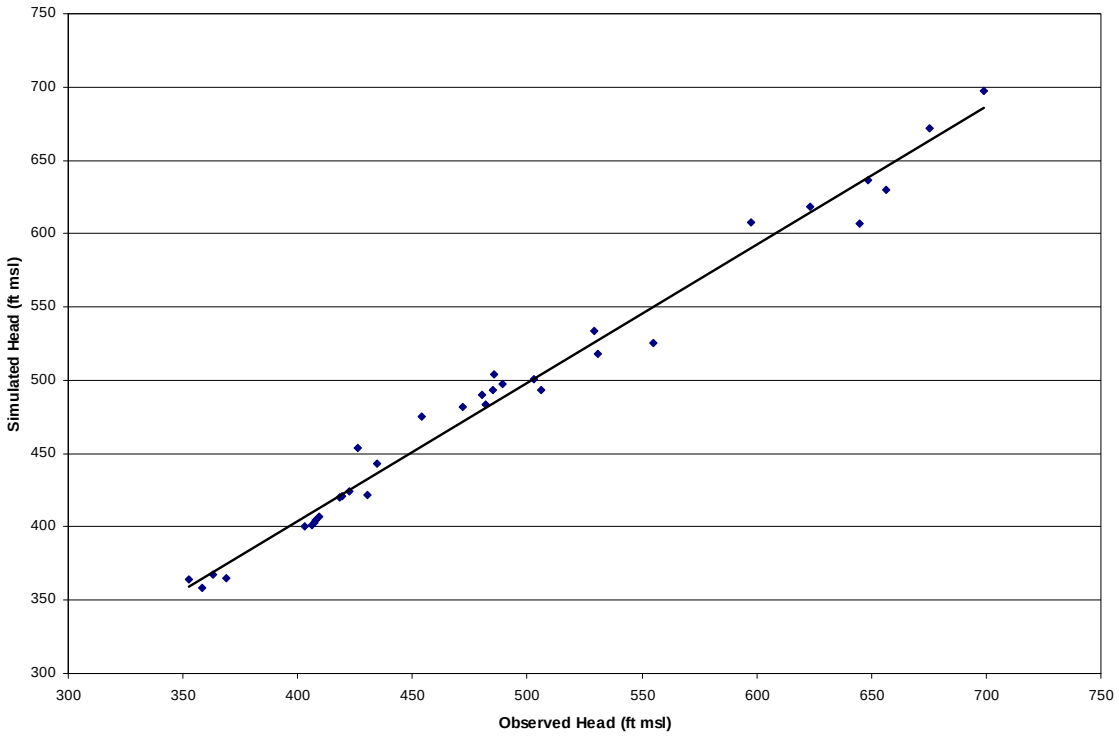
Observed Versus Simulated Regression Charts for Layer 3
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

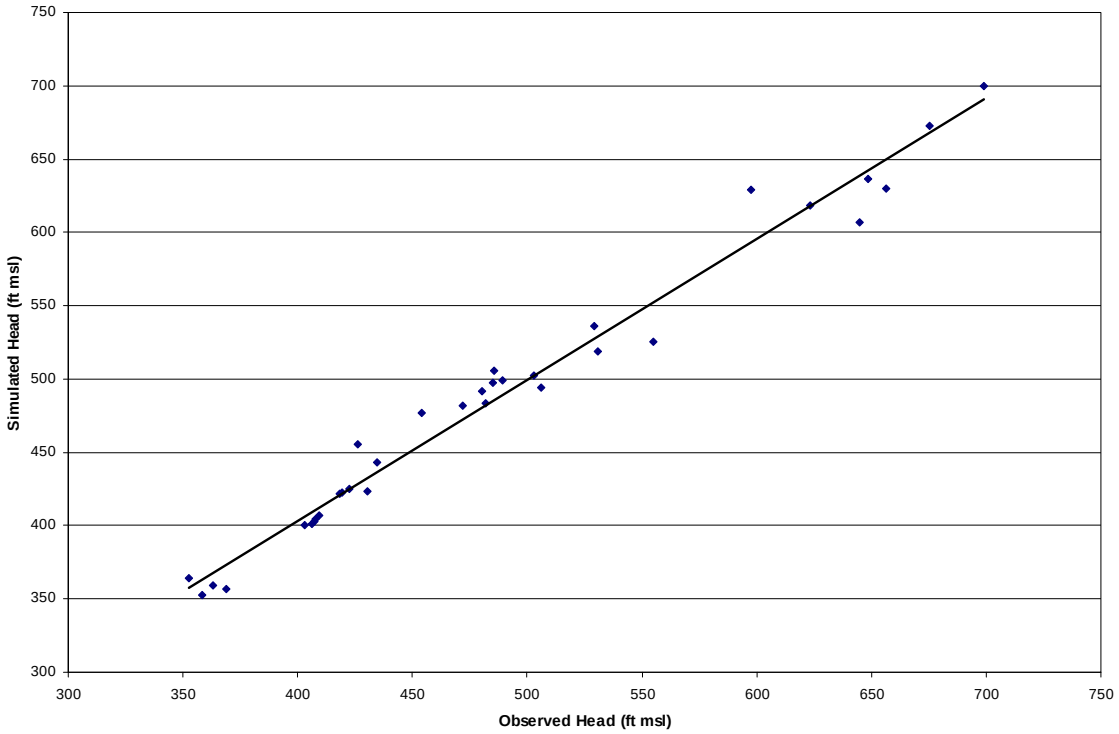
FIGURE
D1-42

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-43.mxd

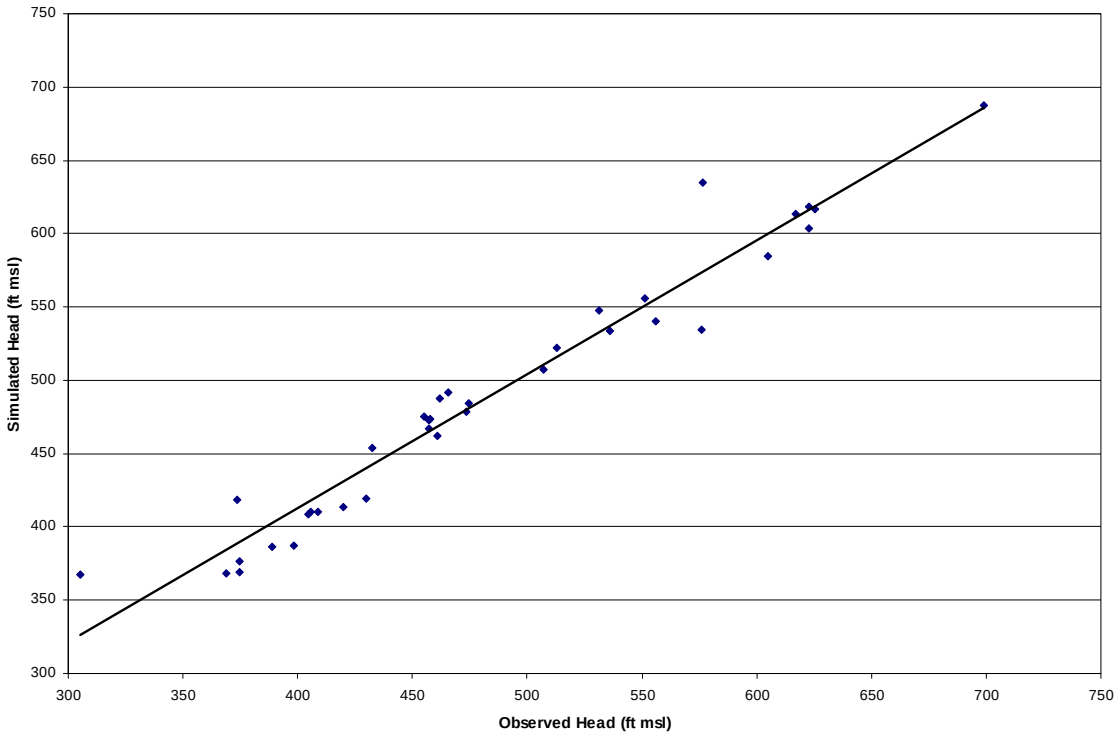
Observed Versus Simulated Regression Charts for Layer 4
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

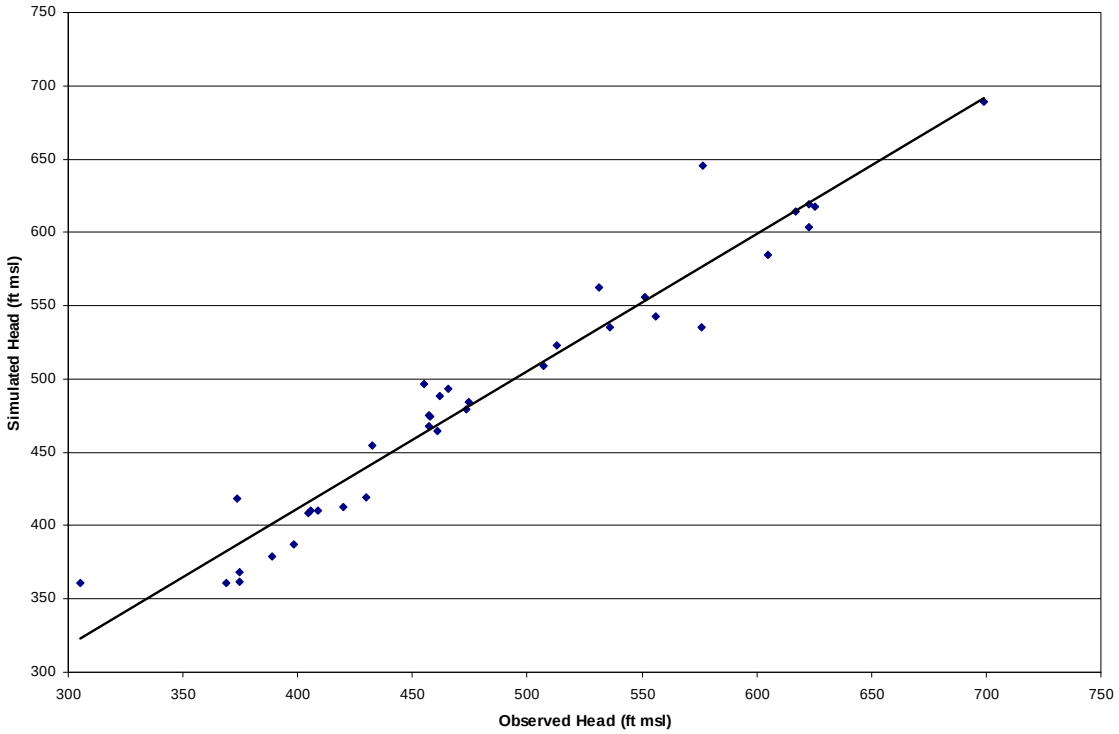
FIGURE
D1-43

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-44.mxd

Observed Versus Simulated Regression Charts for Layer 5
Modified and Original 2004 (Dry Season) Models

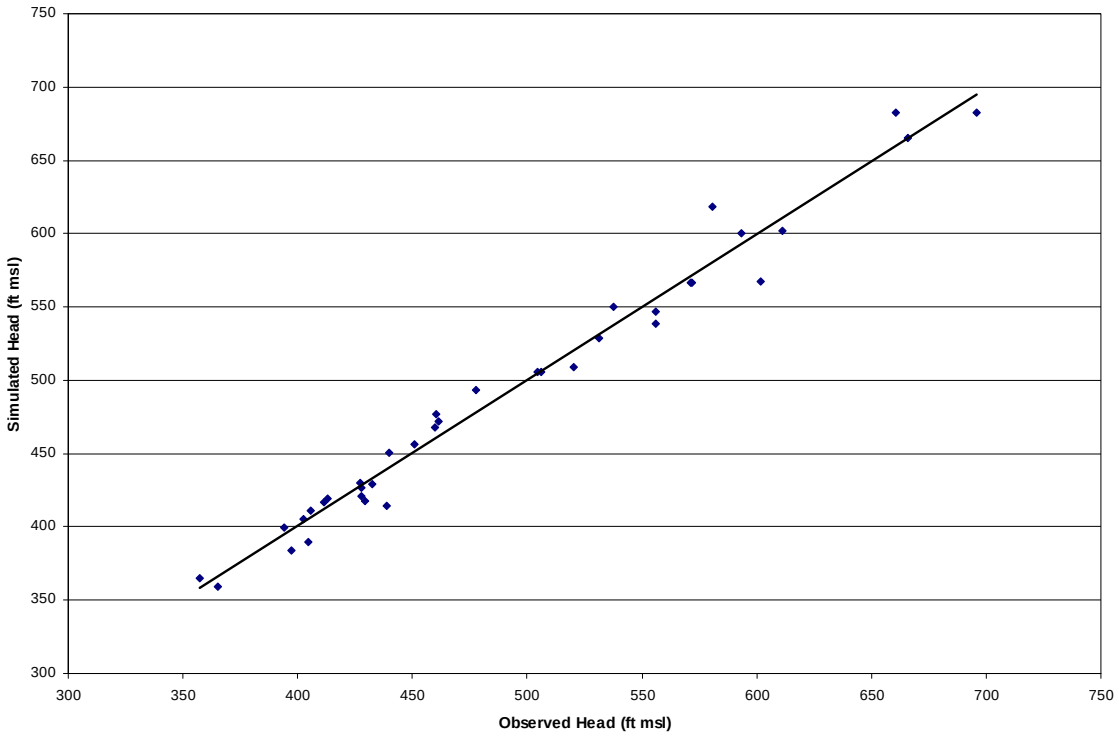
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

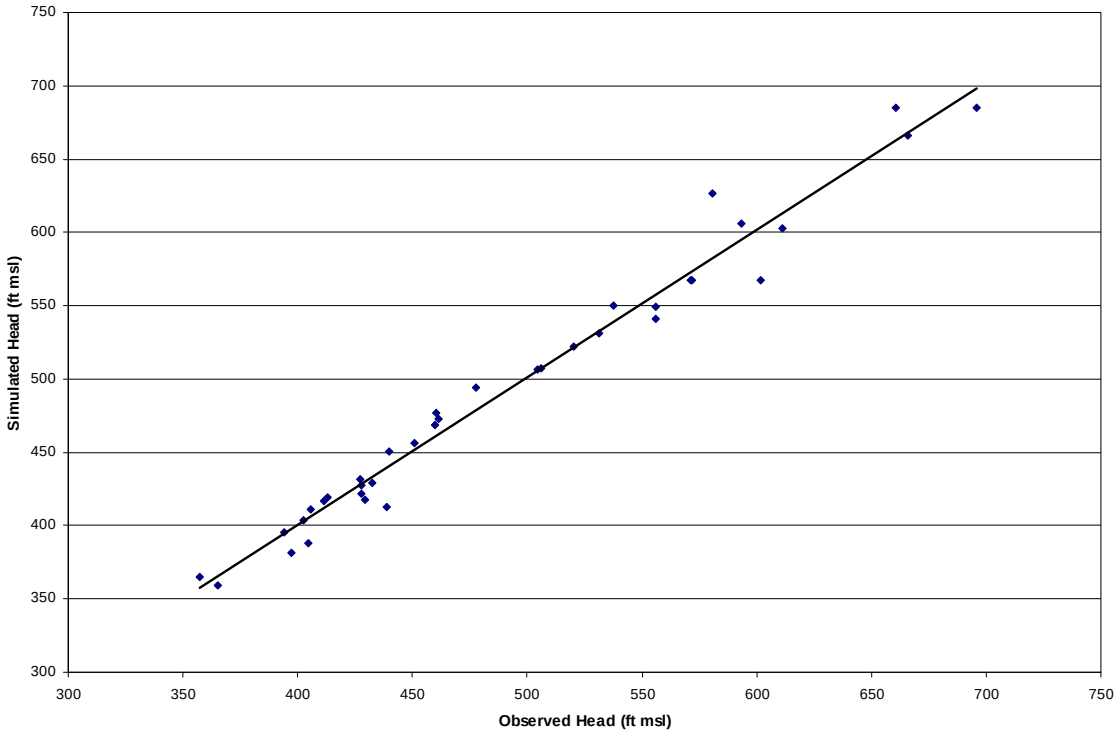
D1-44

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-45.mxd

Observed Versus Simulated Regression Charts for Layer 6
Modified and Original 2004 (Dry Season) Models

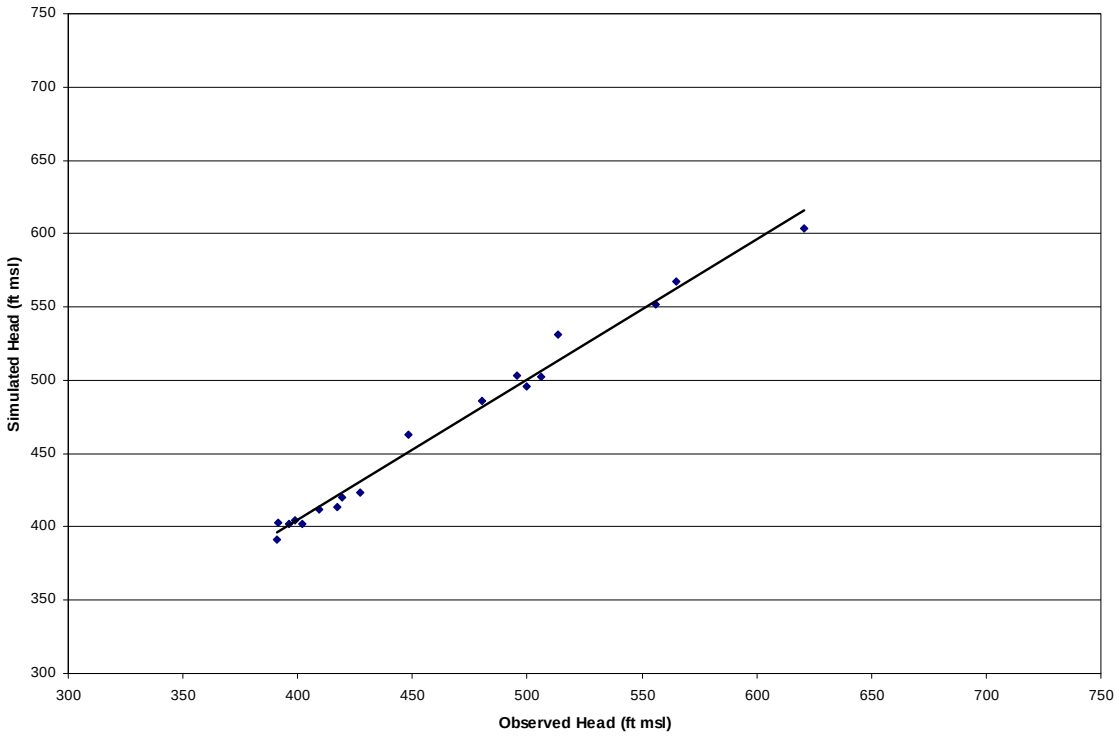
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

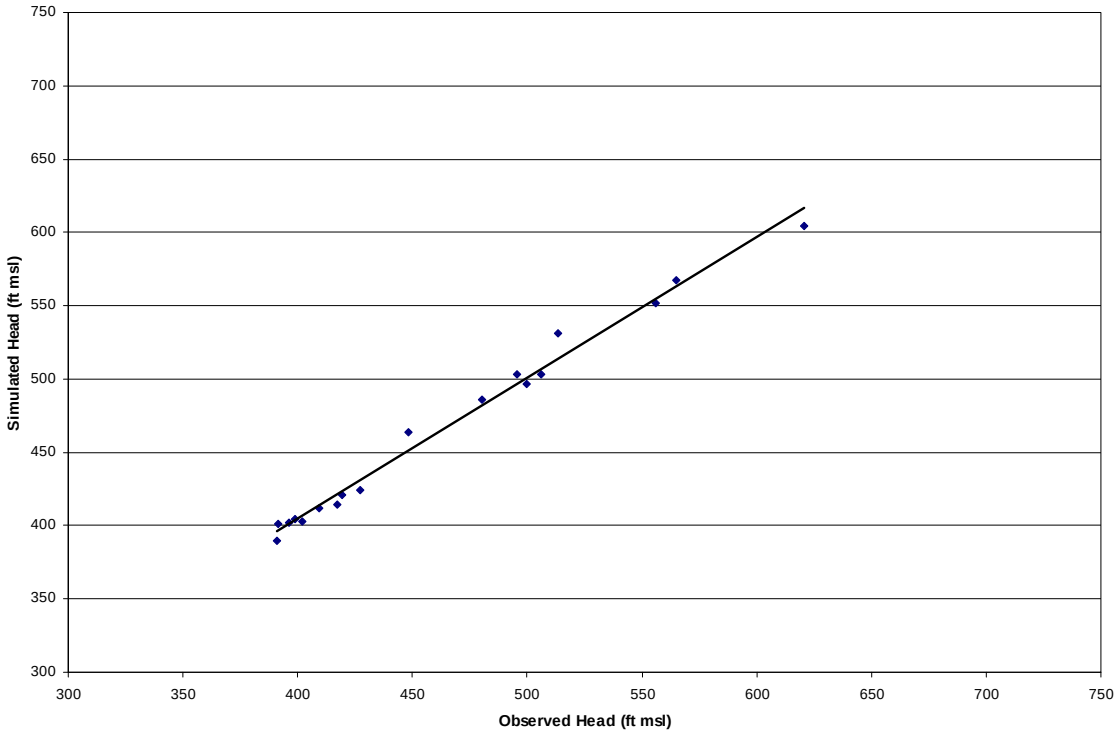
D1-45

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-46.mxd

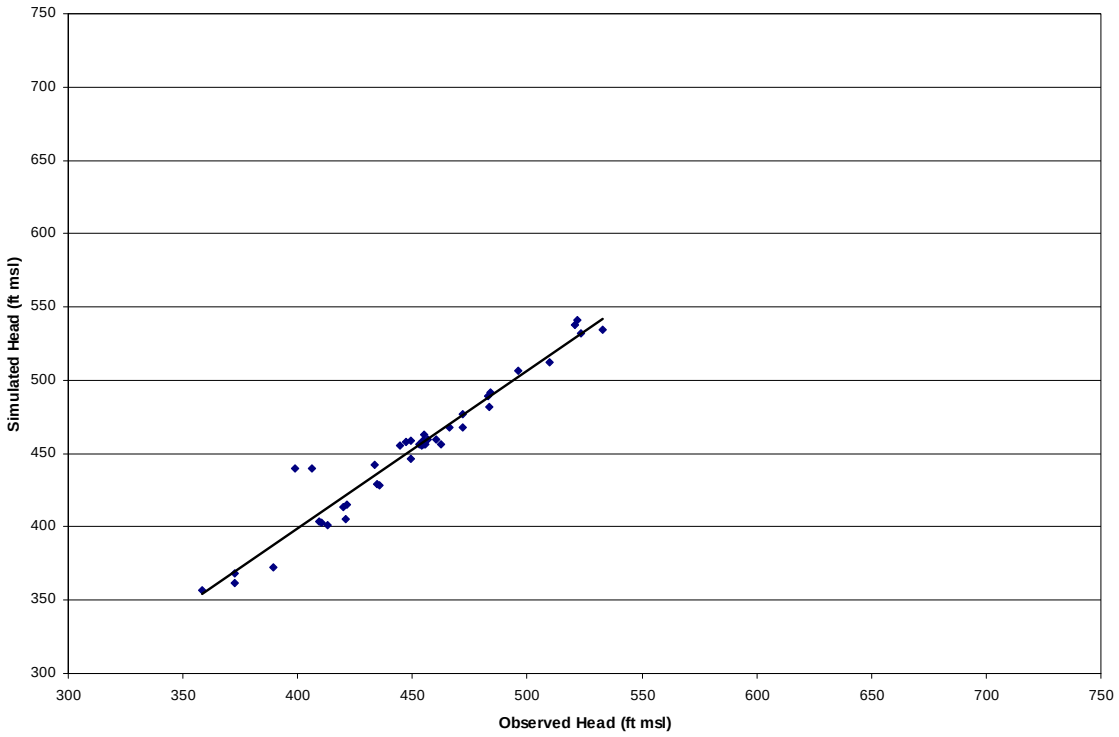
Observed Versus Simulated Regression Charts for Layer 7
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

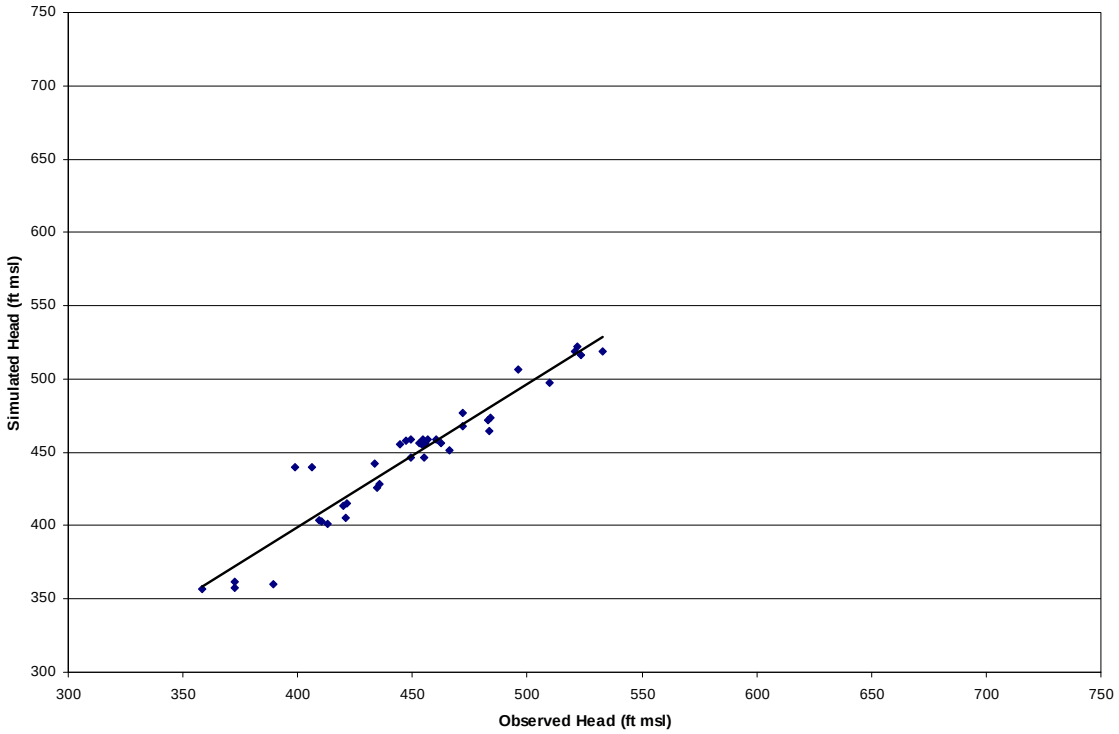
FIGURE
D1-46

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-47.mxd

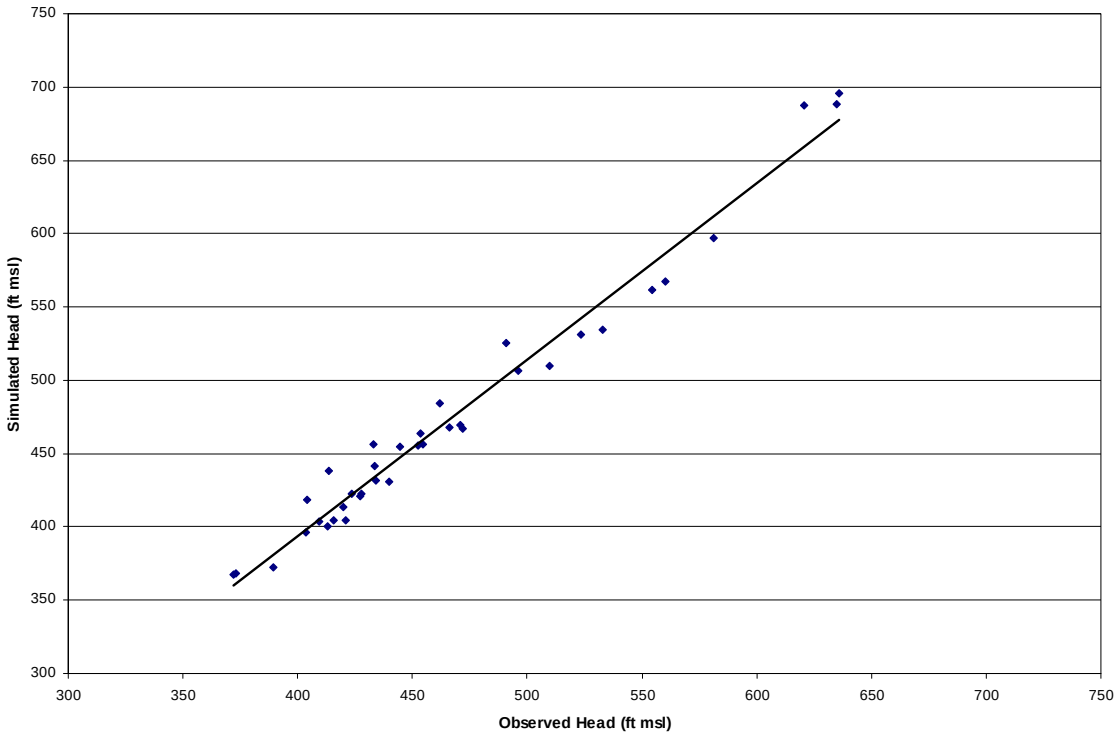
Observed Versus Simulated Regression Charts for Layer 1
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

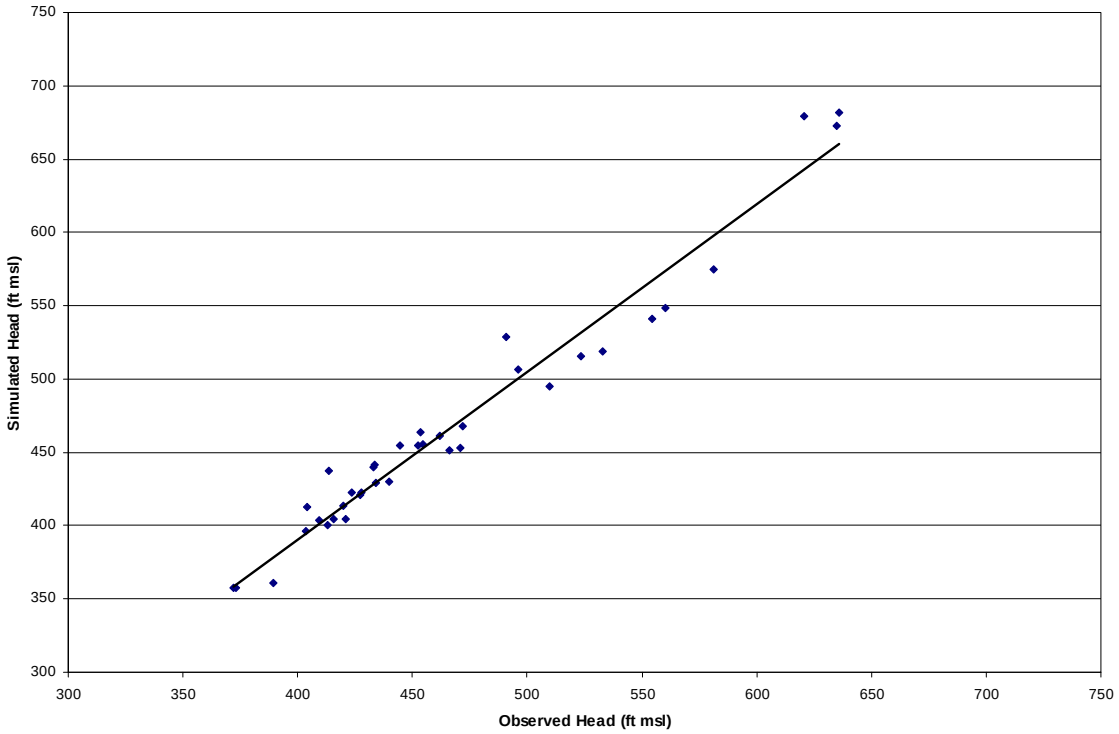
FIGURE
D1-47

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-48.mxd

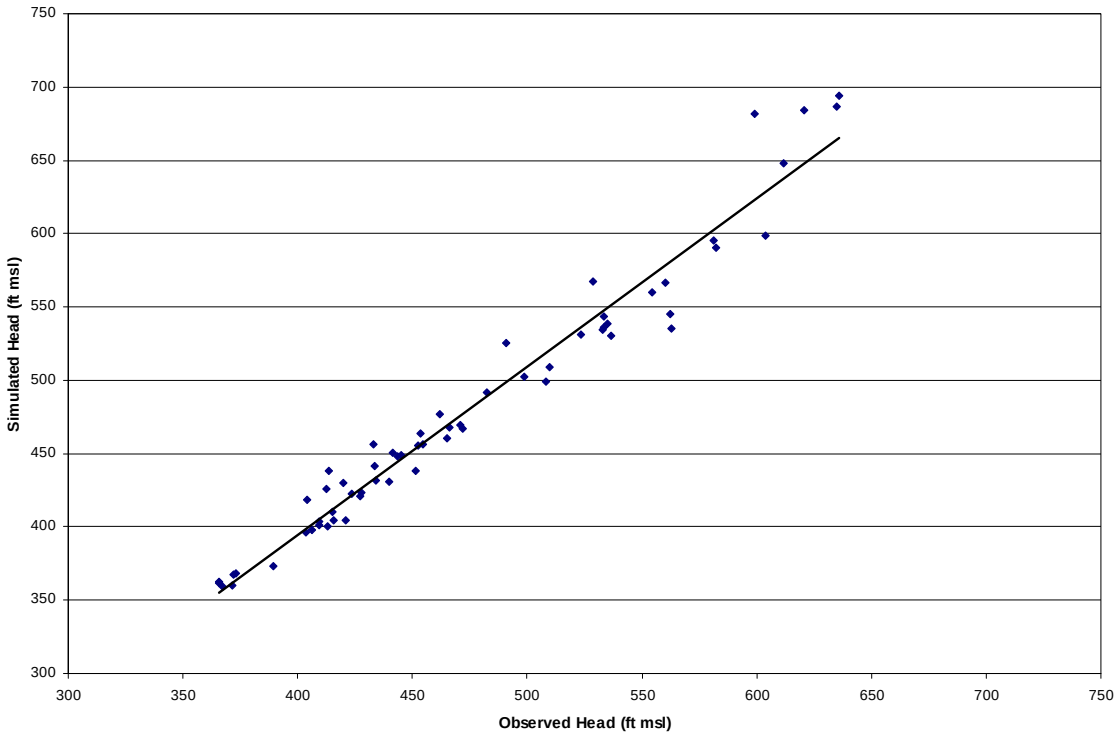
Observed Versus Simulated Regression Charts for Layer 2
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

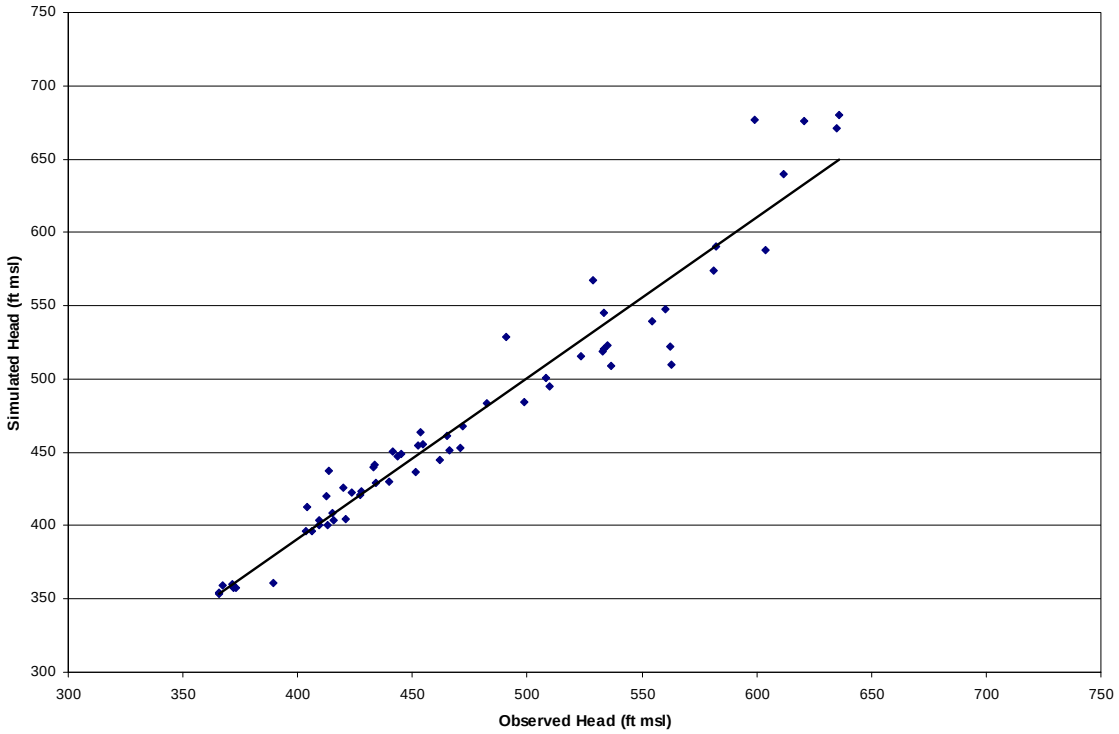
FIGURE
D1-48

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-49.mxd

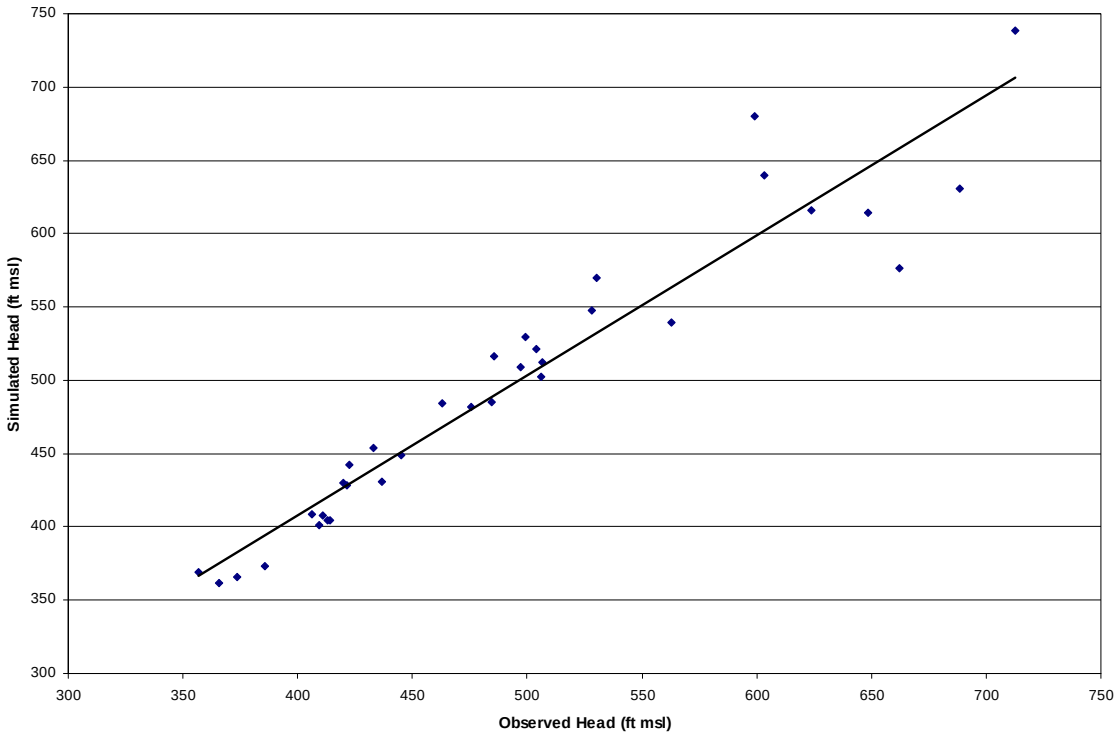
Observed Versus Simulated Regression Charts for Layer 3
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

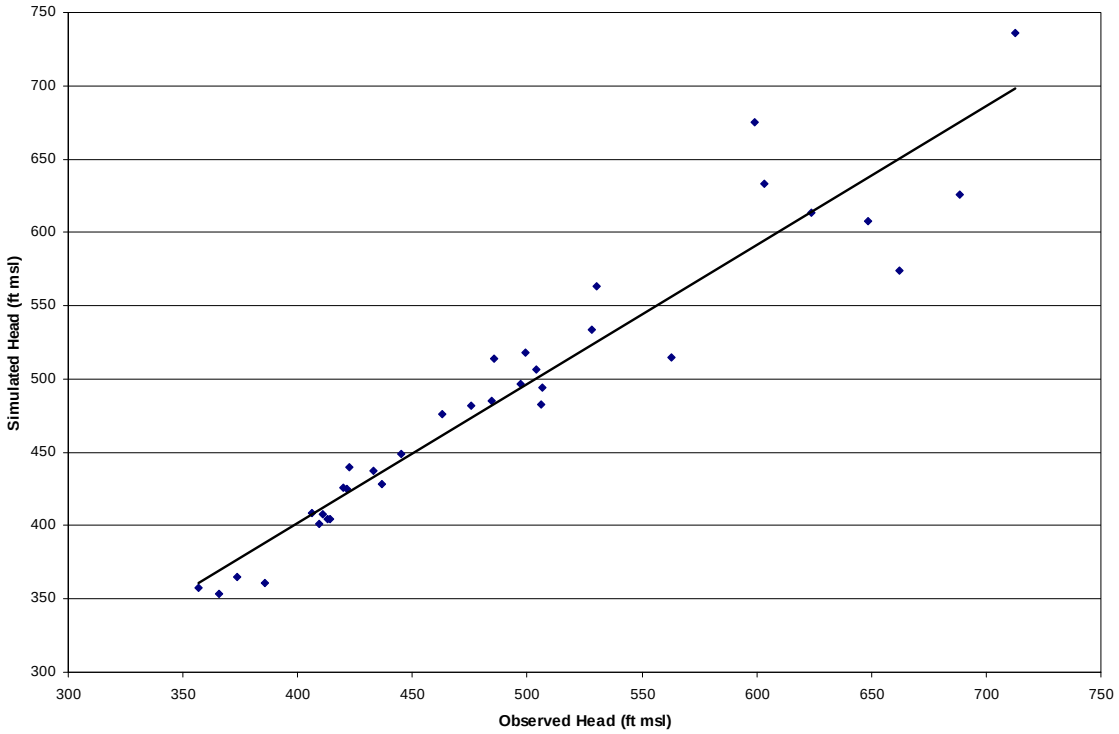
FIGURE
D1-49

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-50.mxd

Observed Versus Simulated Regression Charts for Layer 4
Modified and Original 2001 (Wet Season) Models

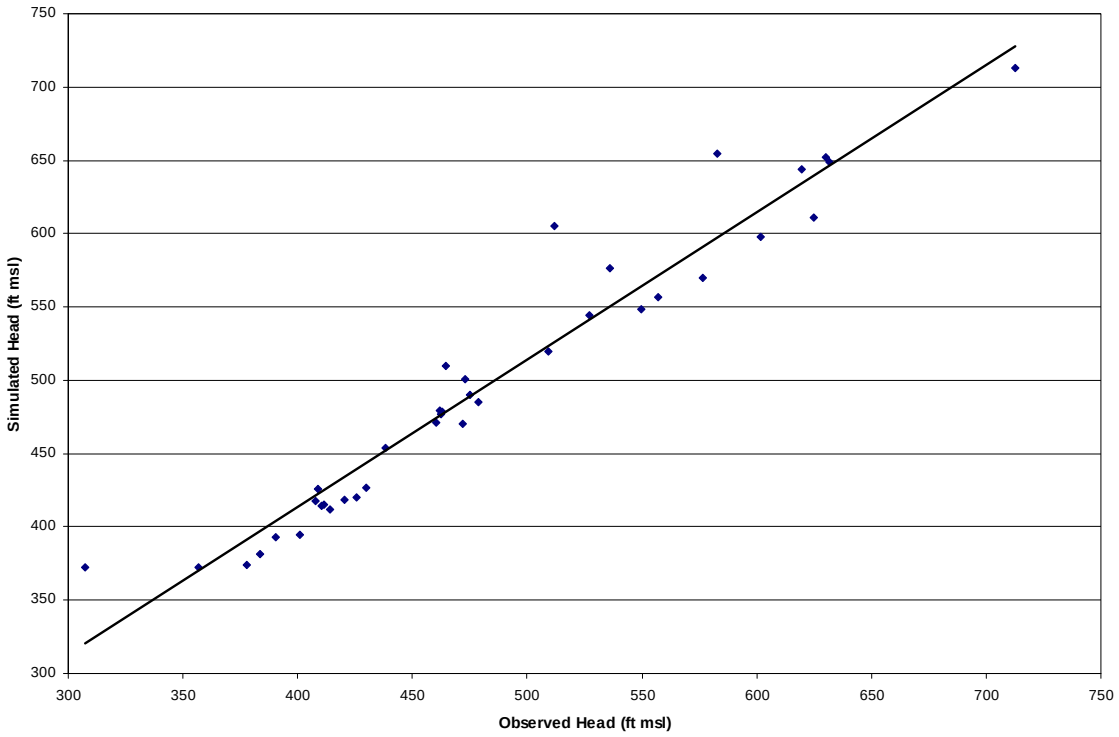
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

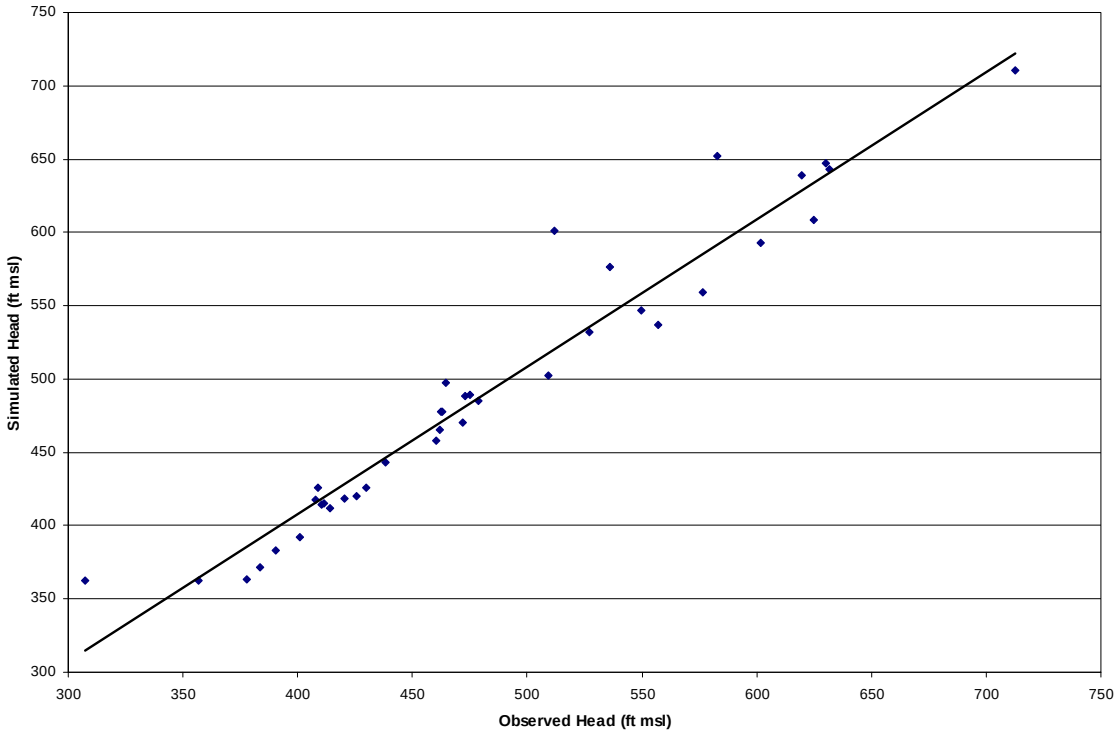
D1-50

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-51.mxd

Observed Versus Simulated Regression Charts for Layer 5
Modified and Original 2001 (Wet Season) Models

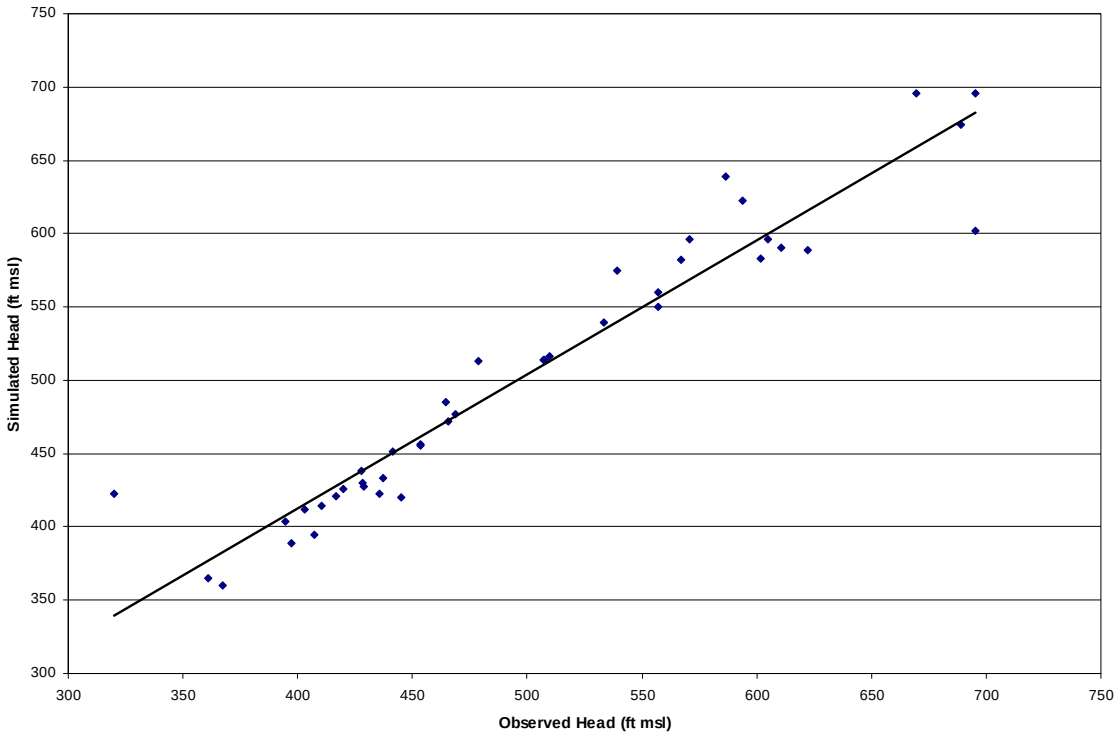
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

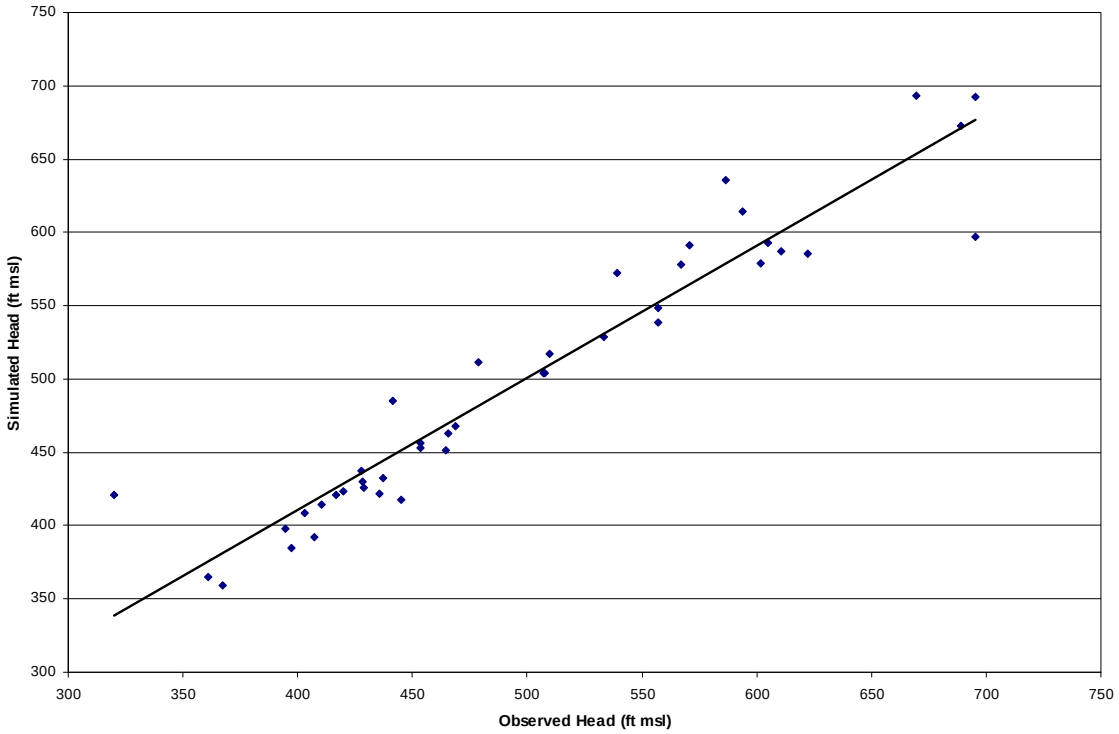
D1-51

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-52.mxd

Observed Versus Simulated Regression Charts for Layer 6
Modified and Original 2001 (Wet Season) Models

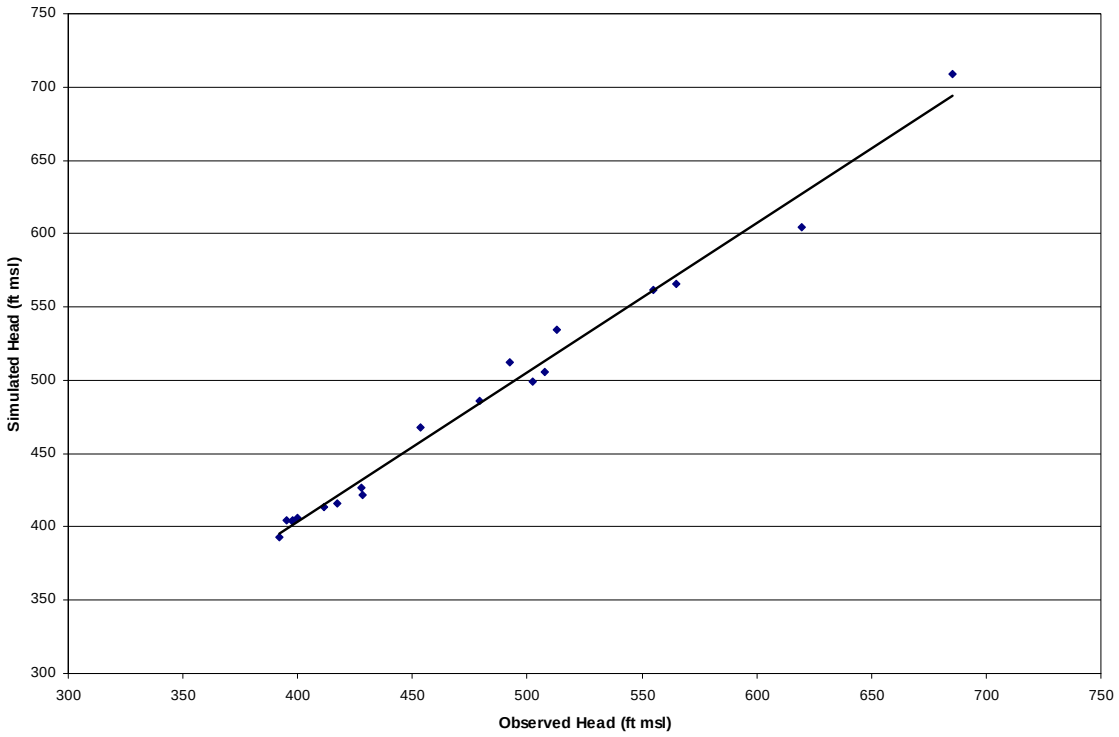
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

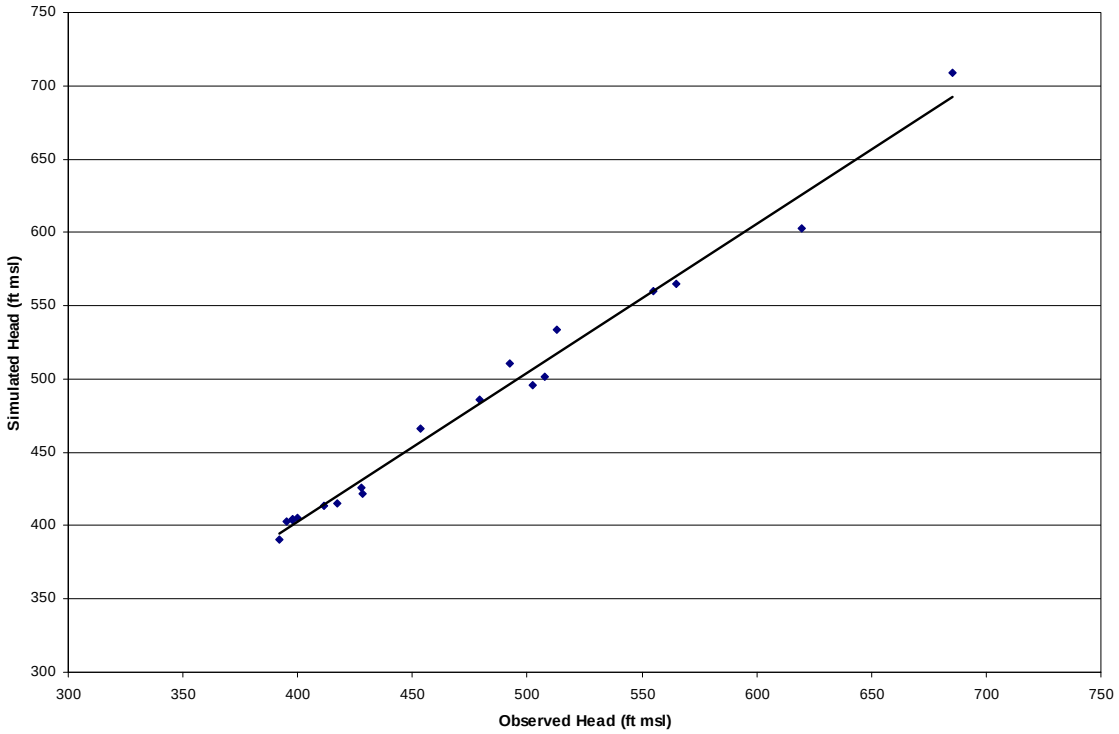
D1-52

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modifed Model



Original Model



FigureD1-53.mxd

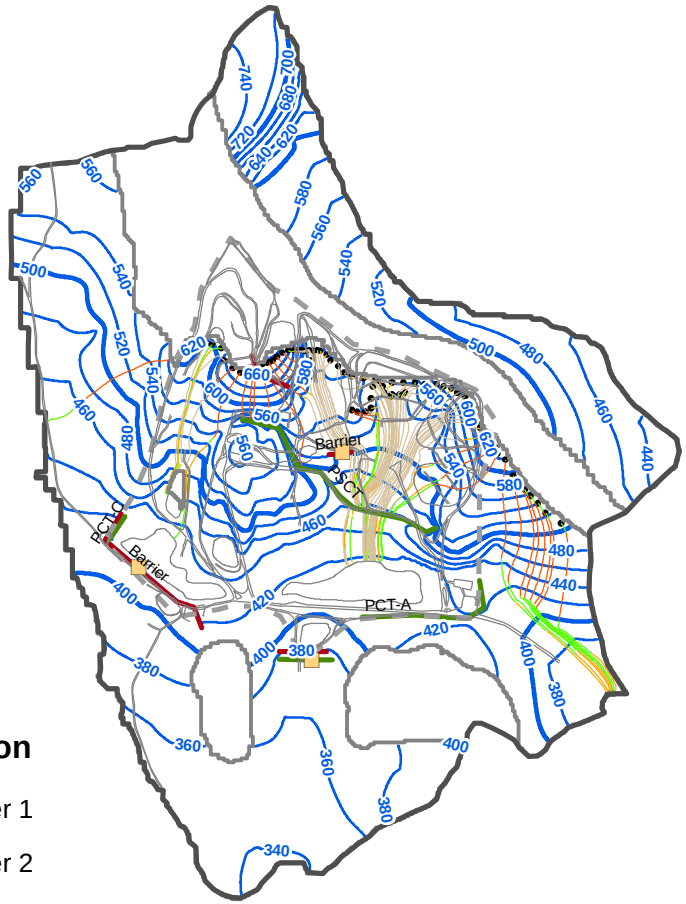
Observed Versus Simulated Regression Charts for Layer 7
Modified and Original 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

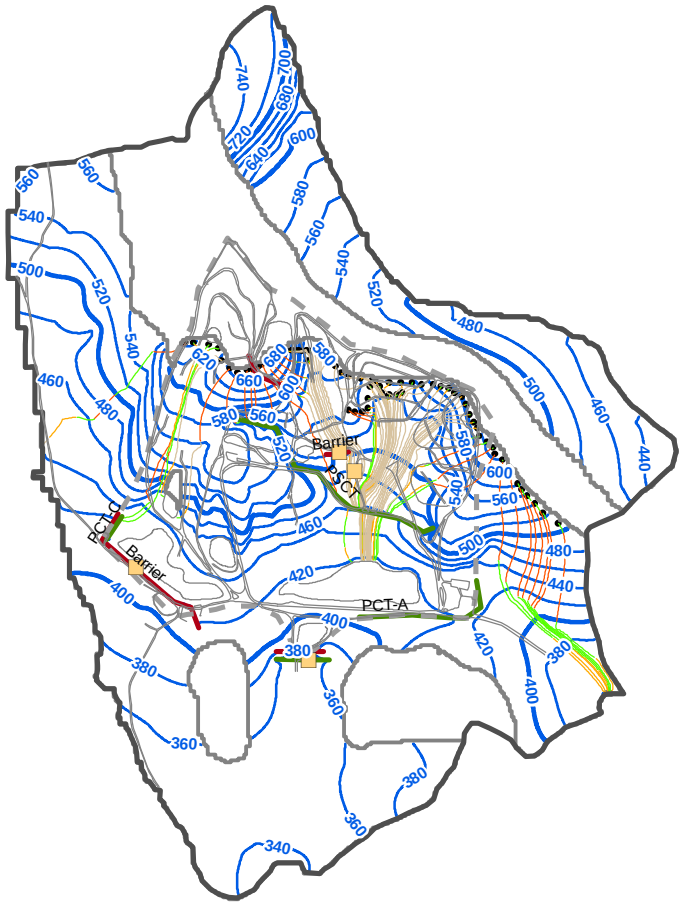
FIGURE
D1-53

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



FigureD1-54.mxd

Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Upper HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

Simulated Upper HSU Forward Flow Paths
Modified and Original 2004 (Dry Season) Models

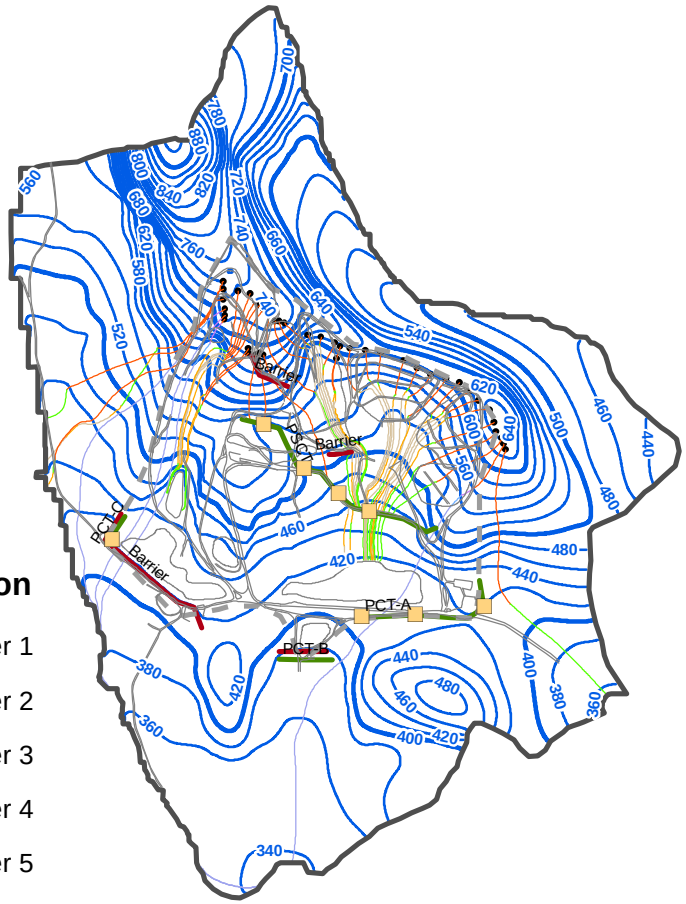
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

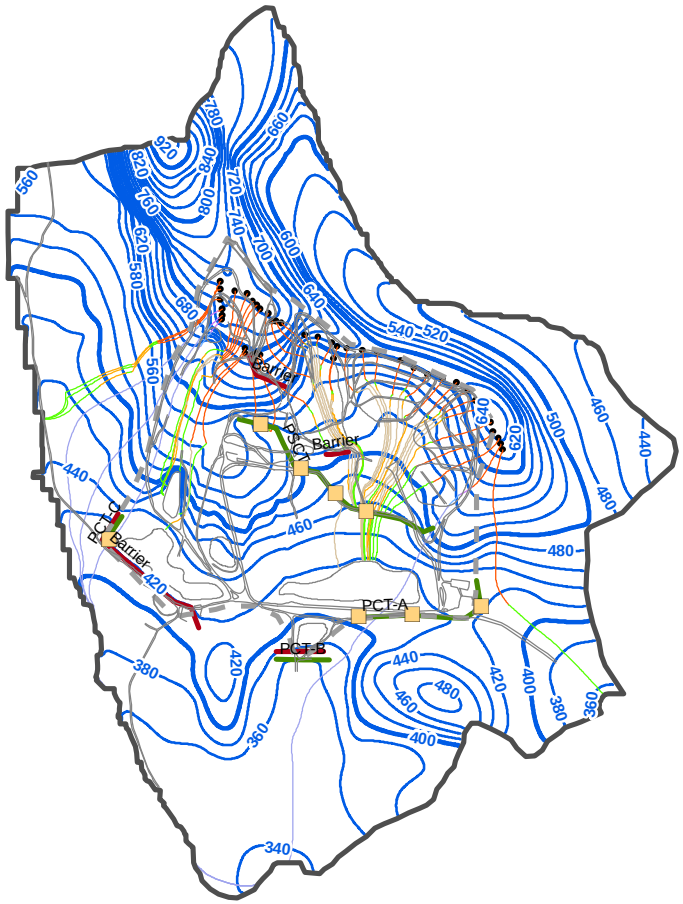
D1-54

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Layer 5
- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-55.mxd

Simulated Lower HSU Forward Flow Paths
Modified and Original 2004 (Dry Season) Models

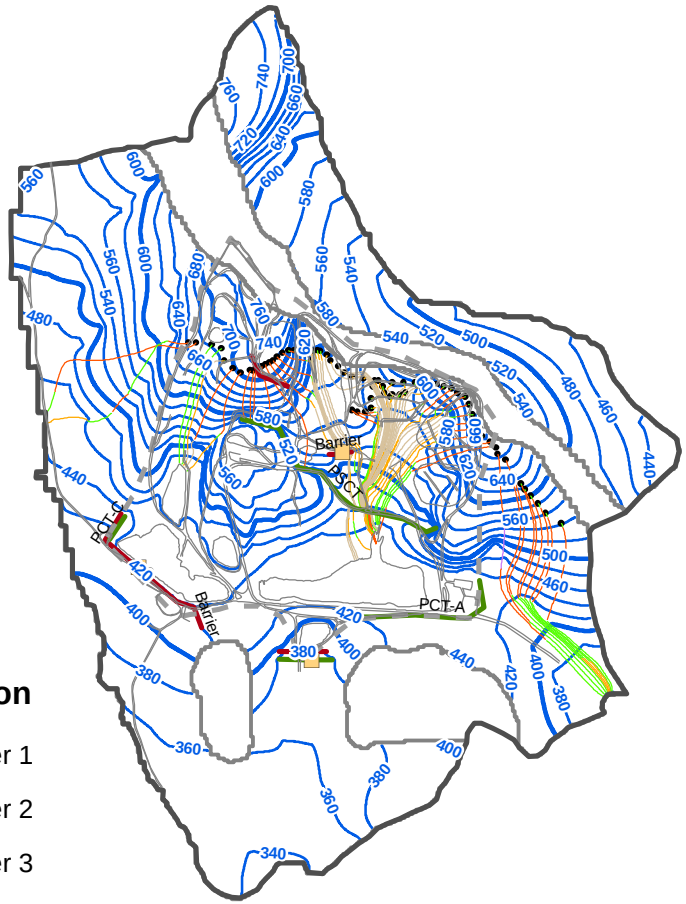
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

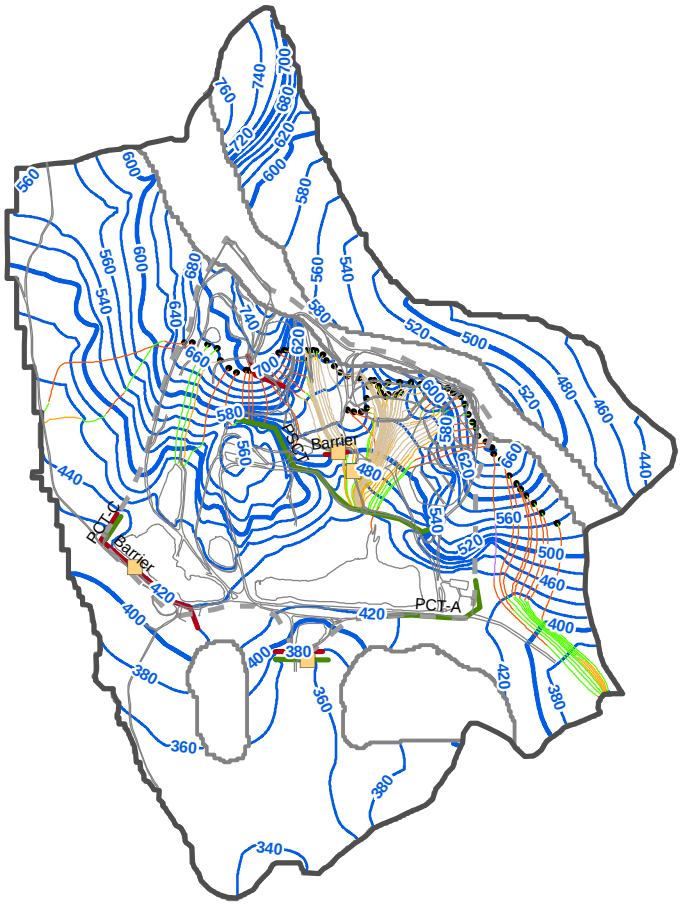
D1-55

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Layer 5
- Upper HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-56.mxd

Simulated Upper HSU Forward Flow Paths
Modified and Original 2001 (Wet Season) Models

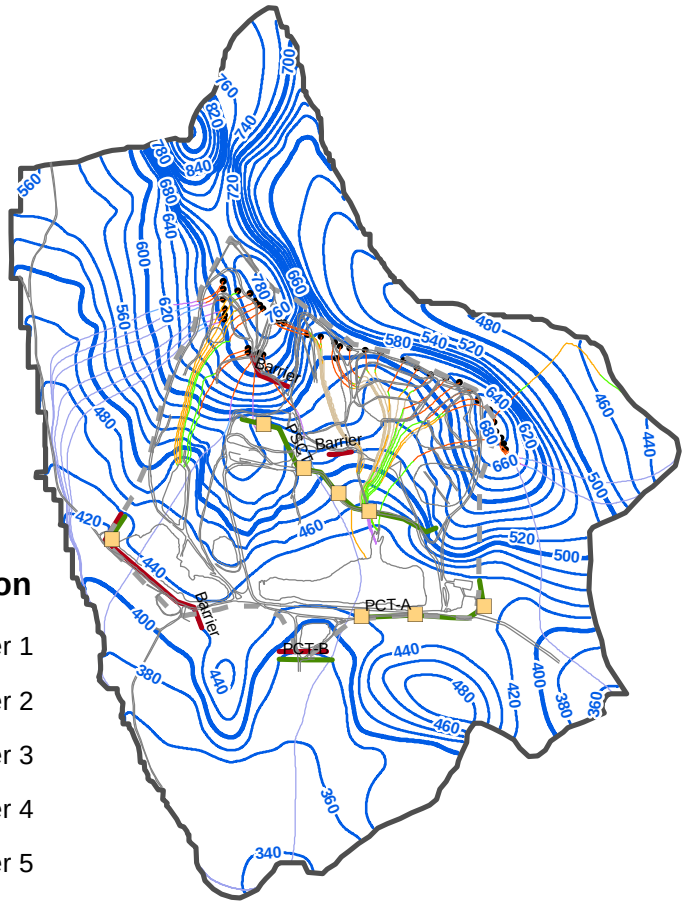
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

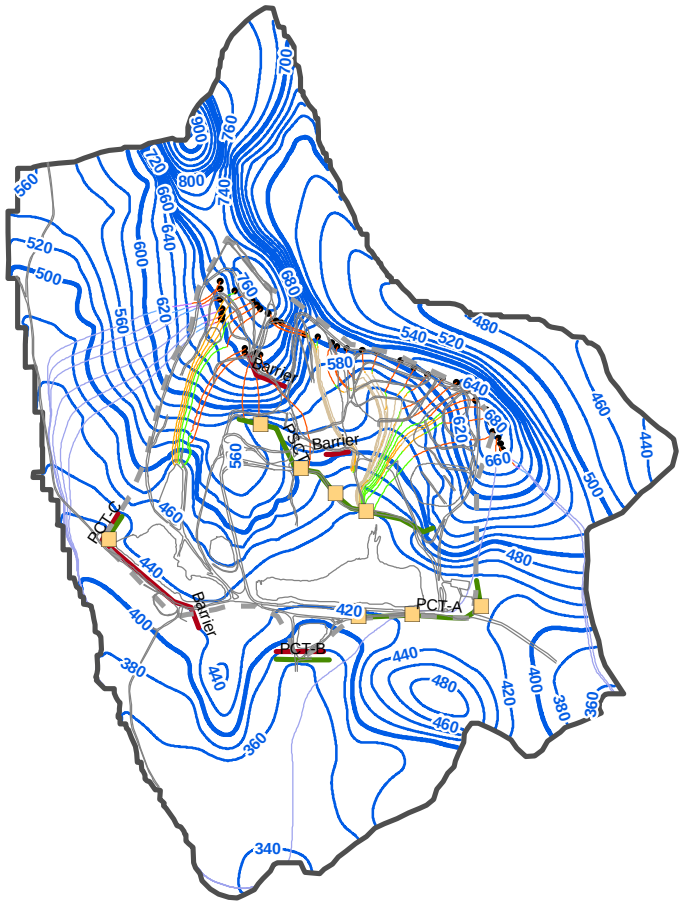
D1-56

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Layer 5
- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-57.mxd

Simulated Lower HSU Forward Flow Paths
Modified and Original 2001 (Wet Season) Models

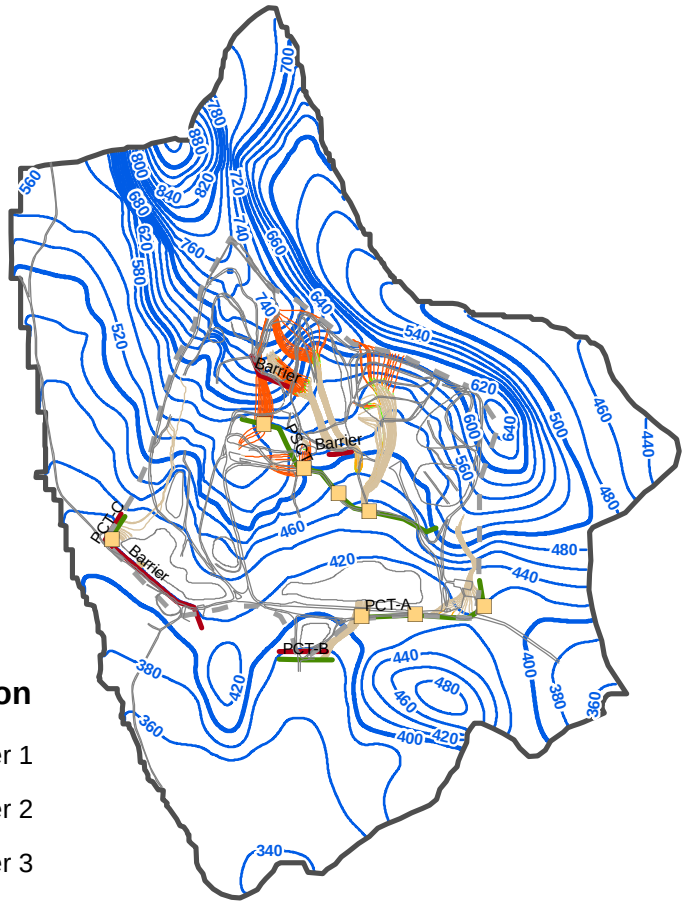
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

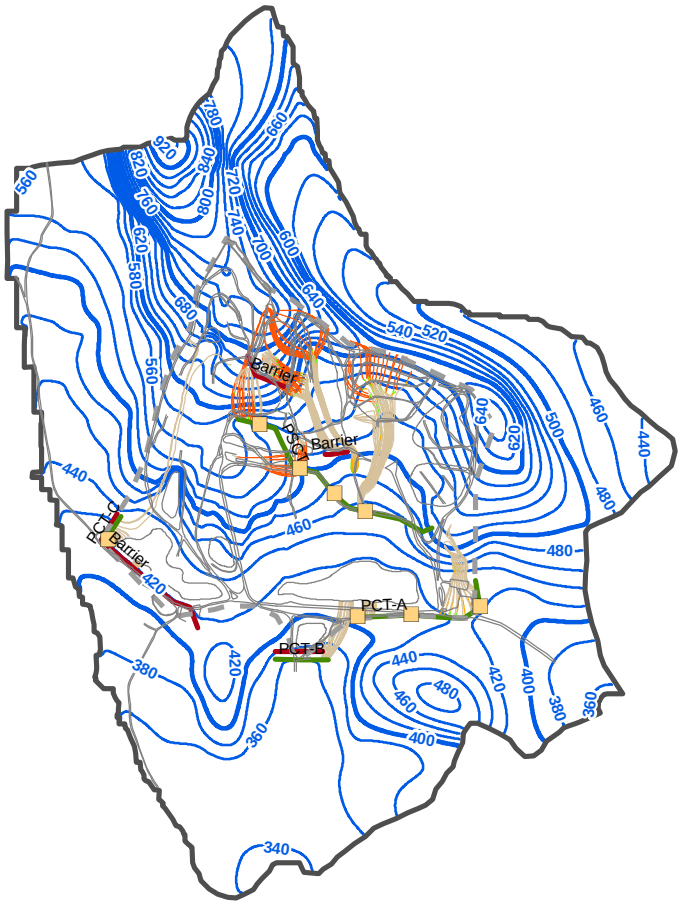
D1-57

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Layer 5
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-58.mxd

Simulated Reverse Flow Paths
Modified and Original 2004 (Dry Season) Models

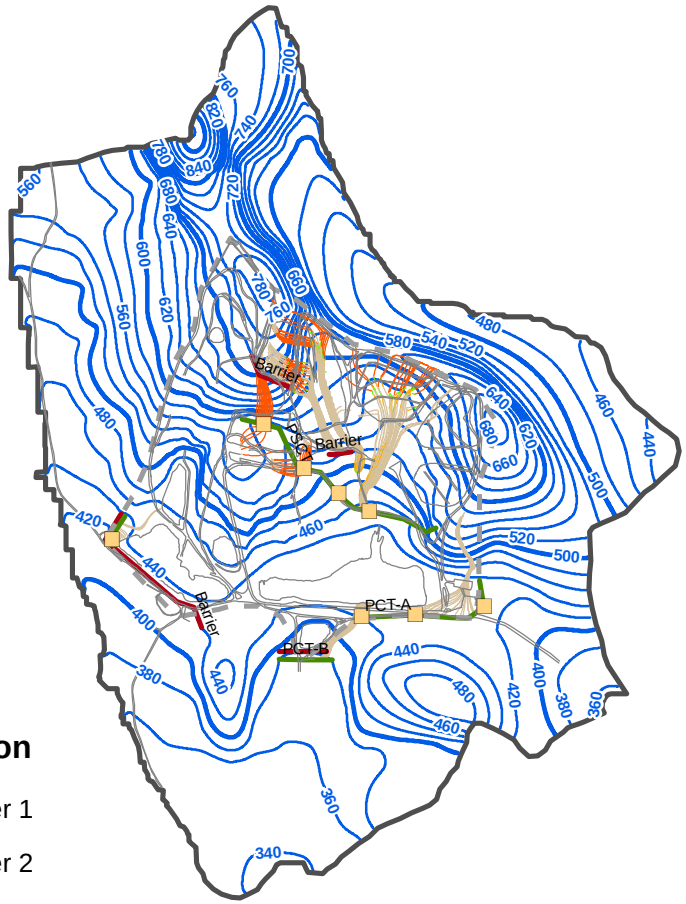
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

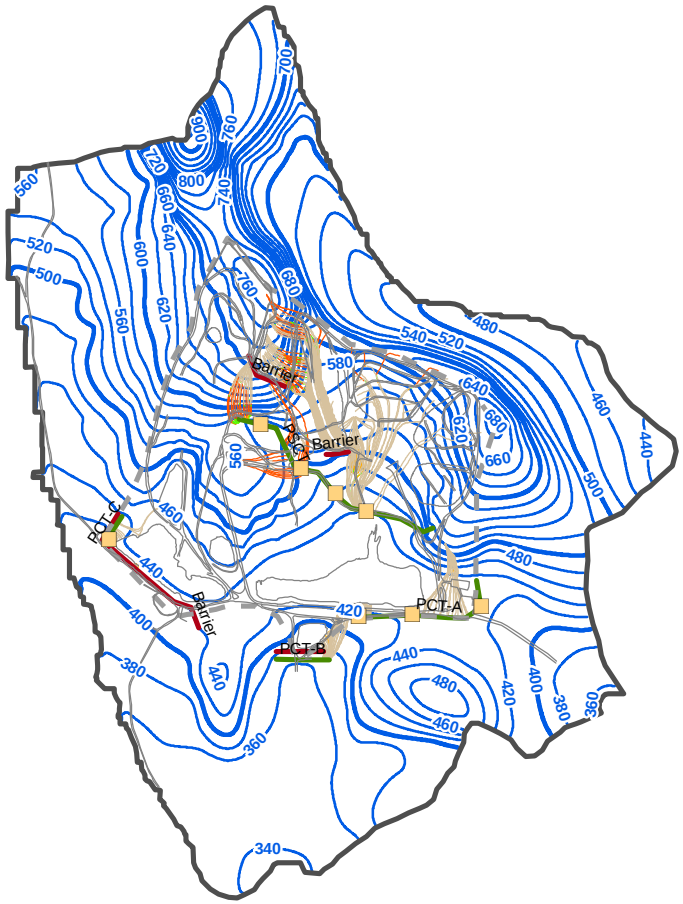
D1-58

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 1
- Layer 2
- Layer 3
- Layer 4
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-59.mxd

Simulated Reverse Flow Paths
Modified and Original 2001 (Wet Season) Models

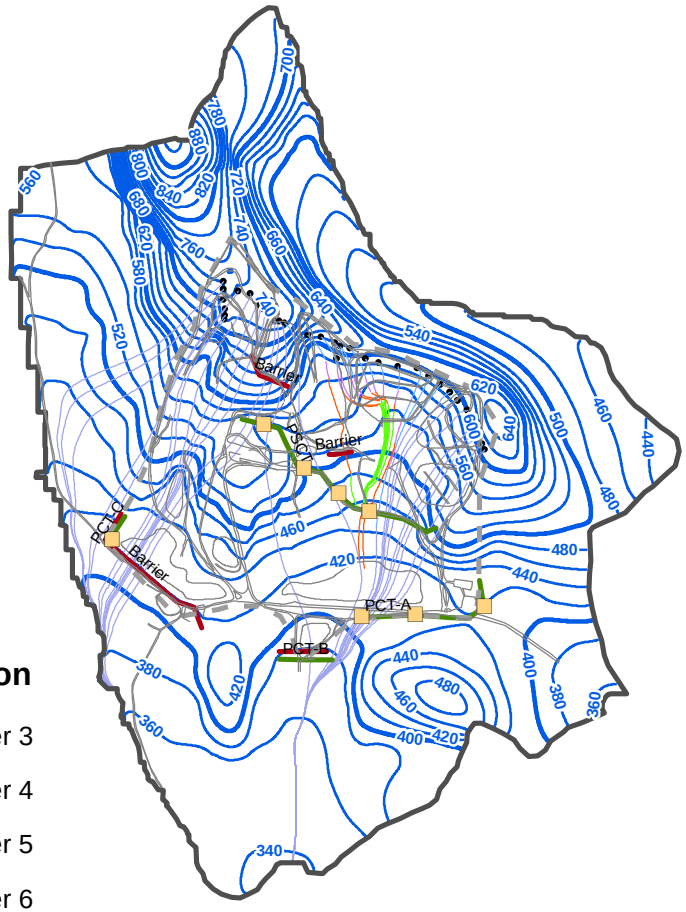
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

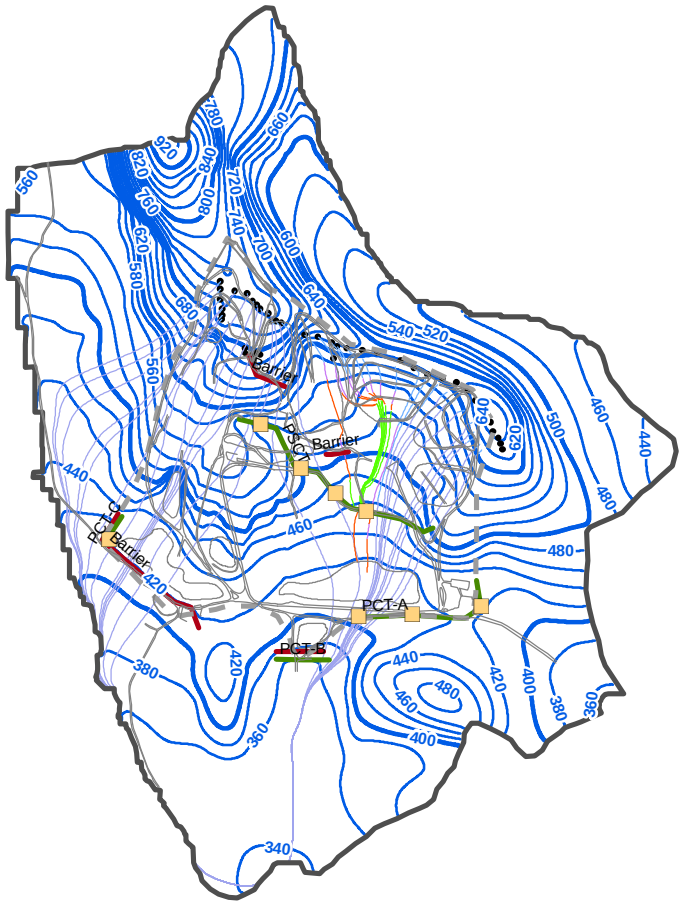
D1-59

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 3
- Layer 4
- Layer 5
- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-60.mxd

Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Modified and Original 2004 (Dry Season) Models

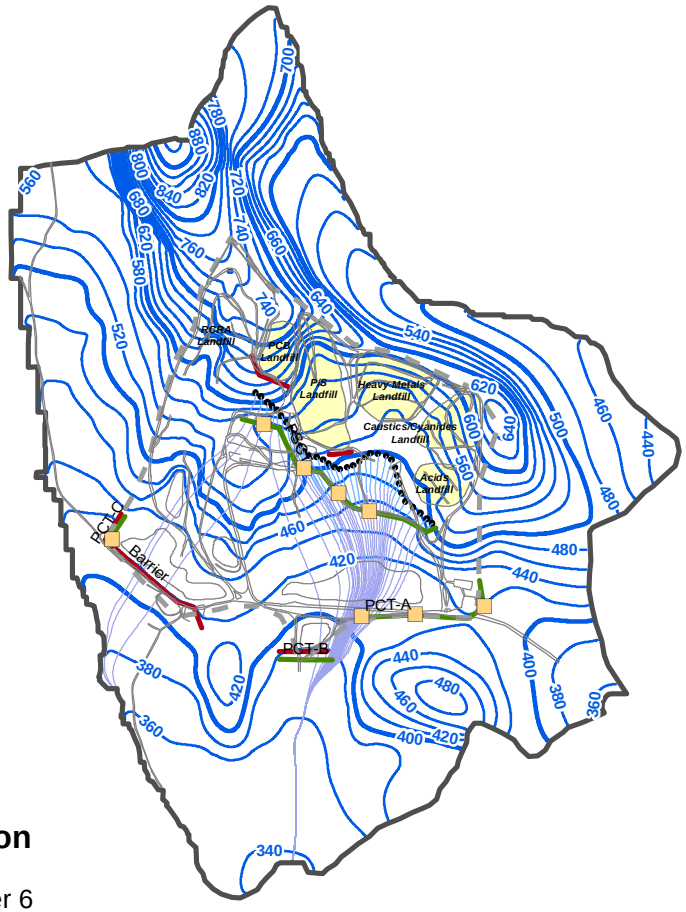
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

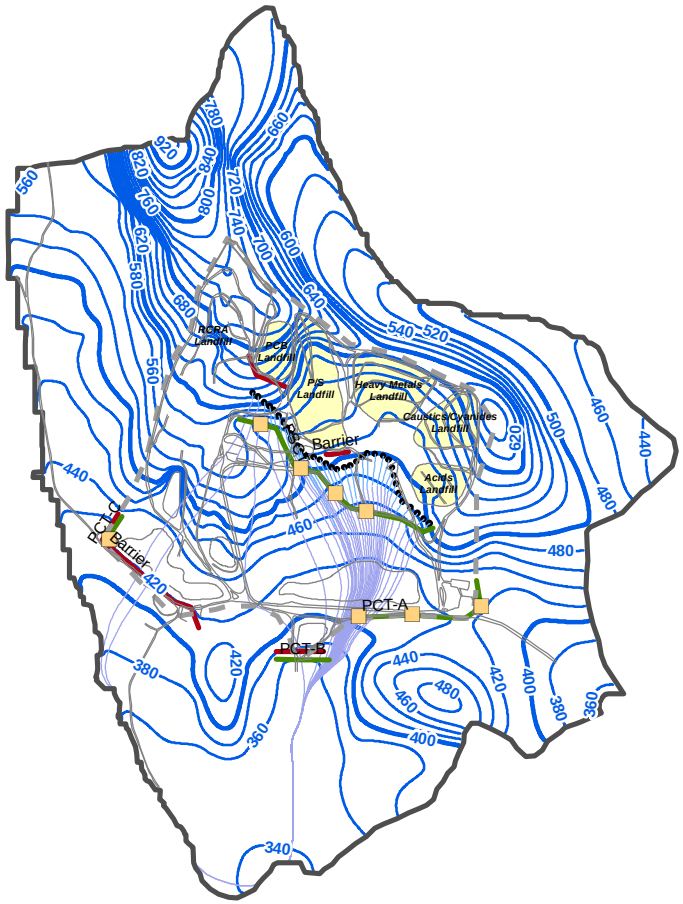
D1-60

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-61.mxd

Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Modified and Original 2004 (Dry Season) Models

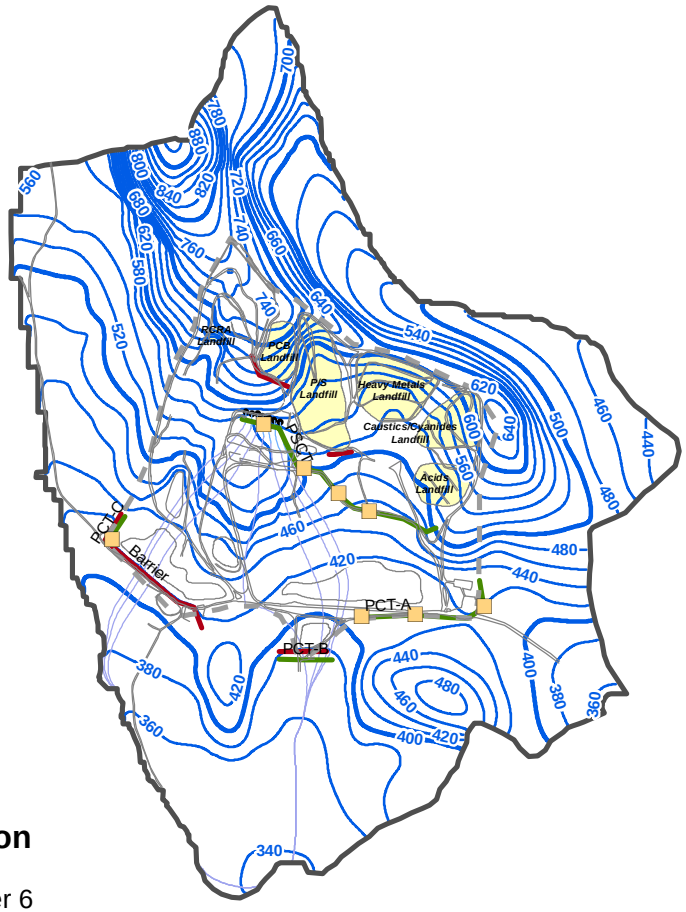
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

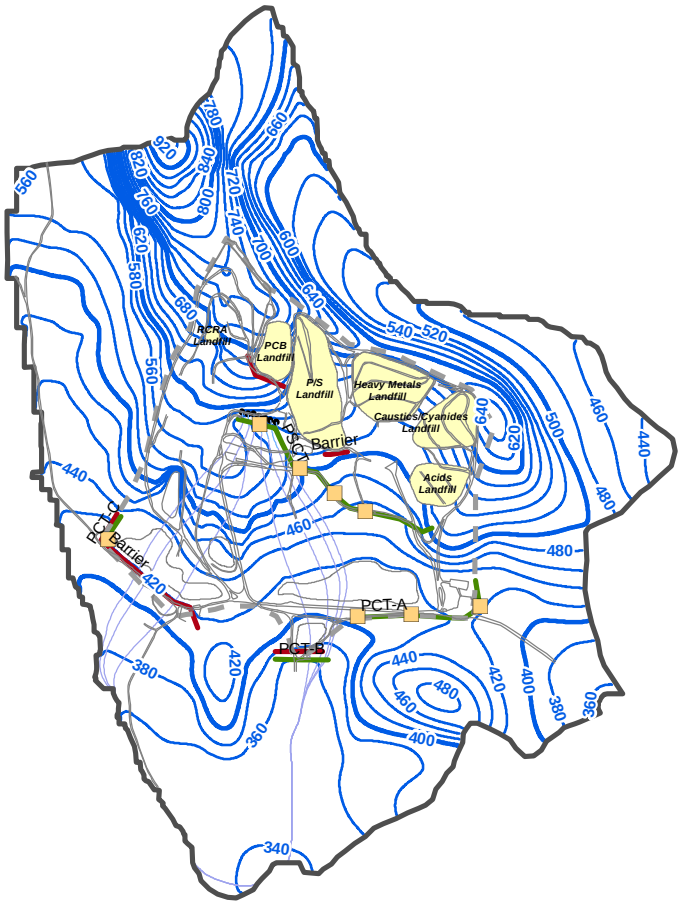
D1-61

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



FigureD1-62.mxd

Explanation

- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and PSCT-4
Modified and Original 2004 (Dry Season) Models

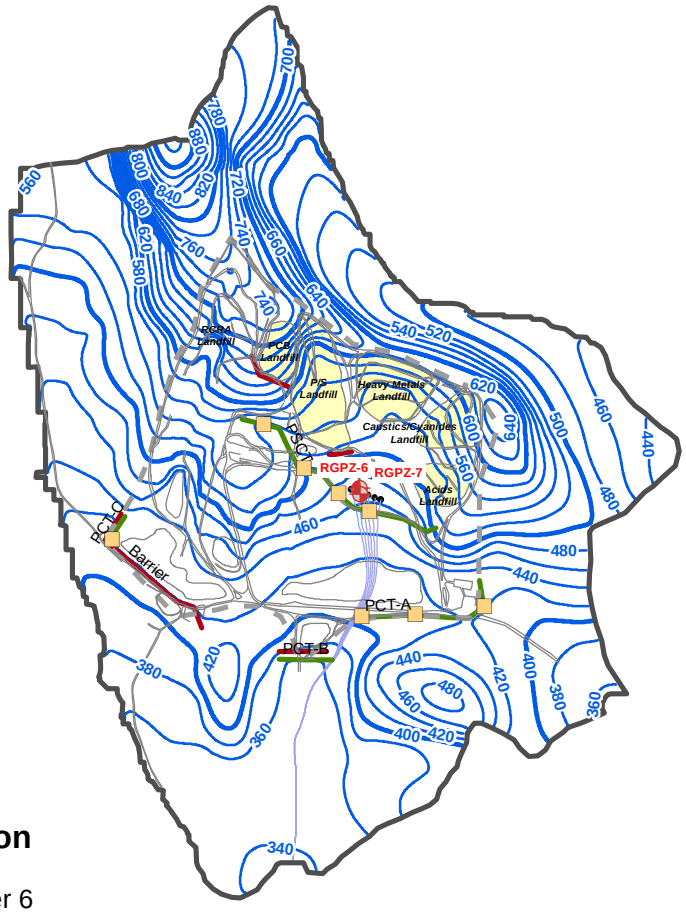
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

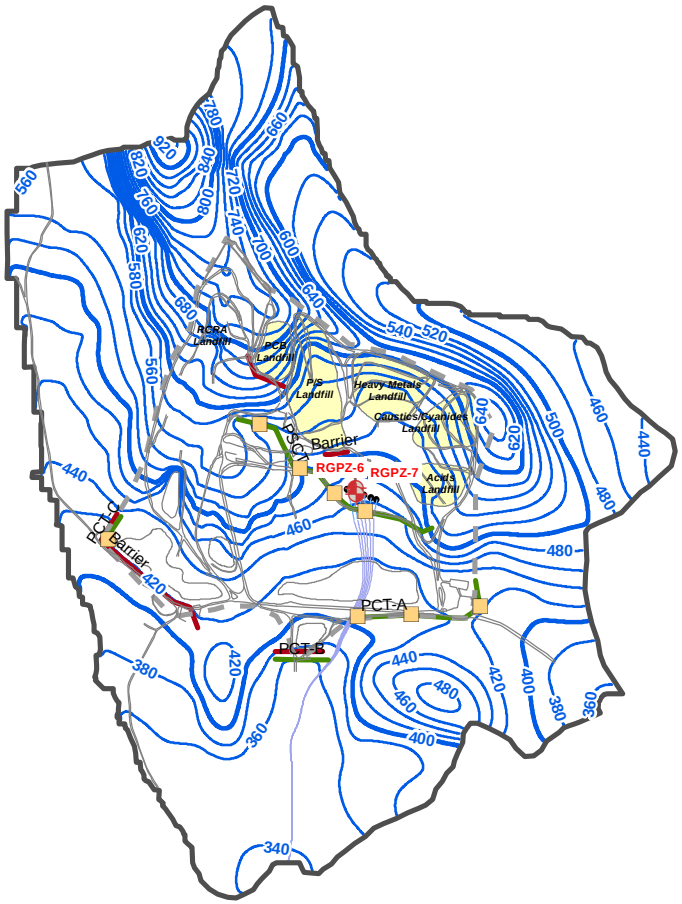
D1-62

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

Modified Model



Original Model



Explanation

- Layer 6
- Layer 7
- Lower HSU Extraction Well
- Zone 1 Boundary

0 750 1,500 3,000 Feet

FigureD1-63.mxd

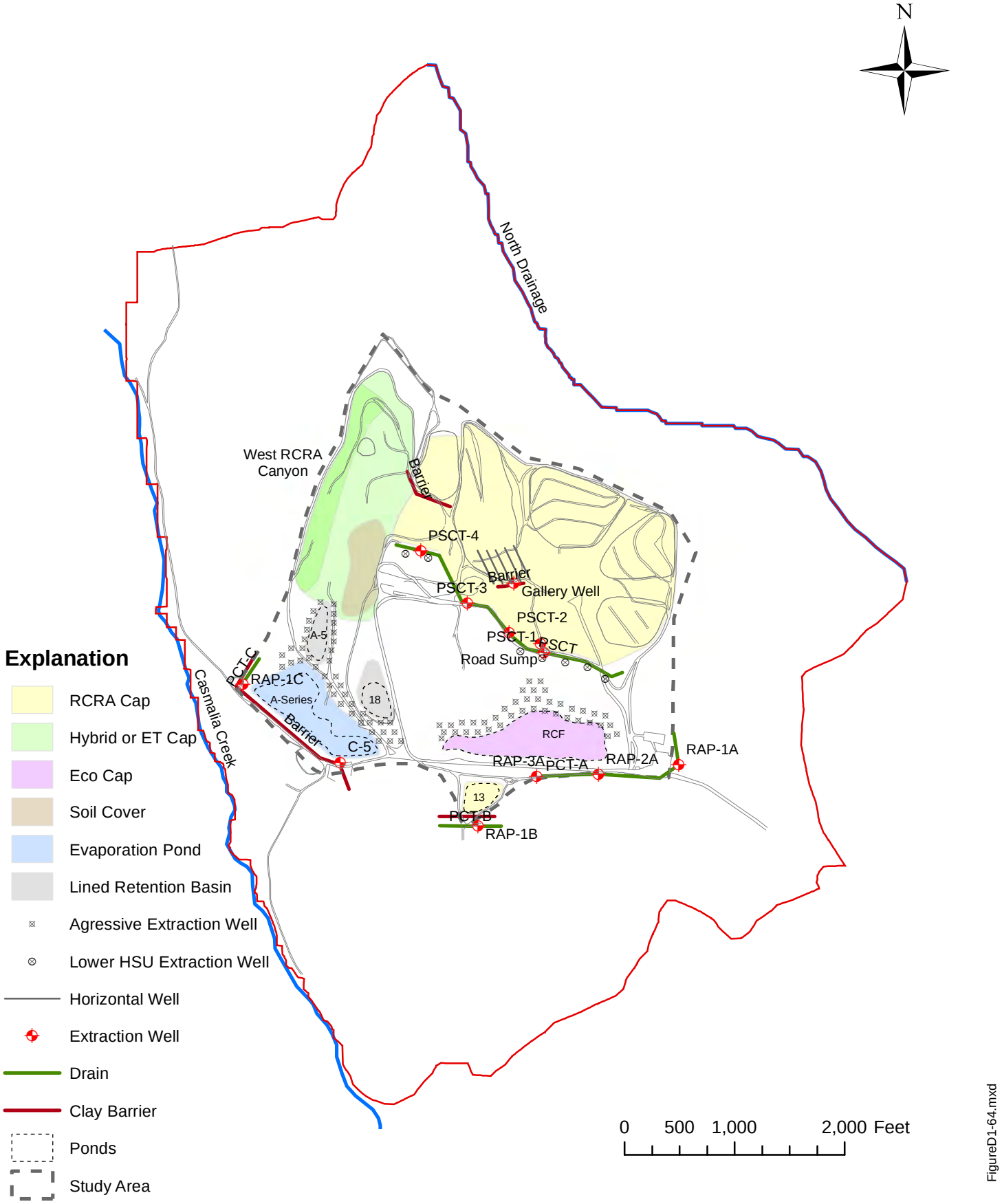
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Modified and Original 2004 (Dry Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-63

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

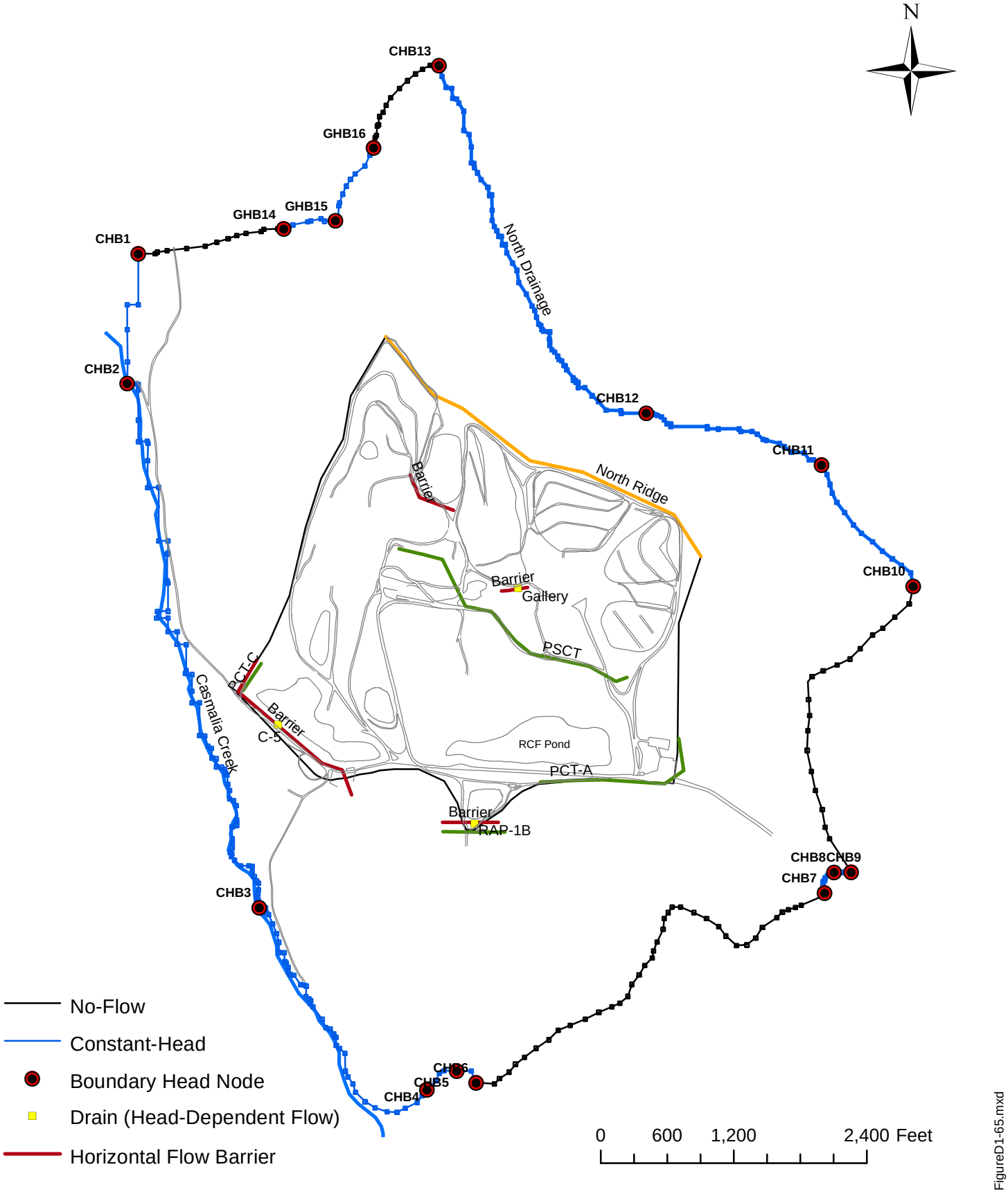


FigureD1-64.mxd

Alternative Sitewide Remedy Components
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-64

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



FigureD1-65.mxd

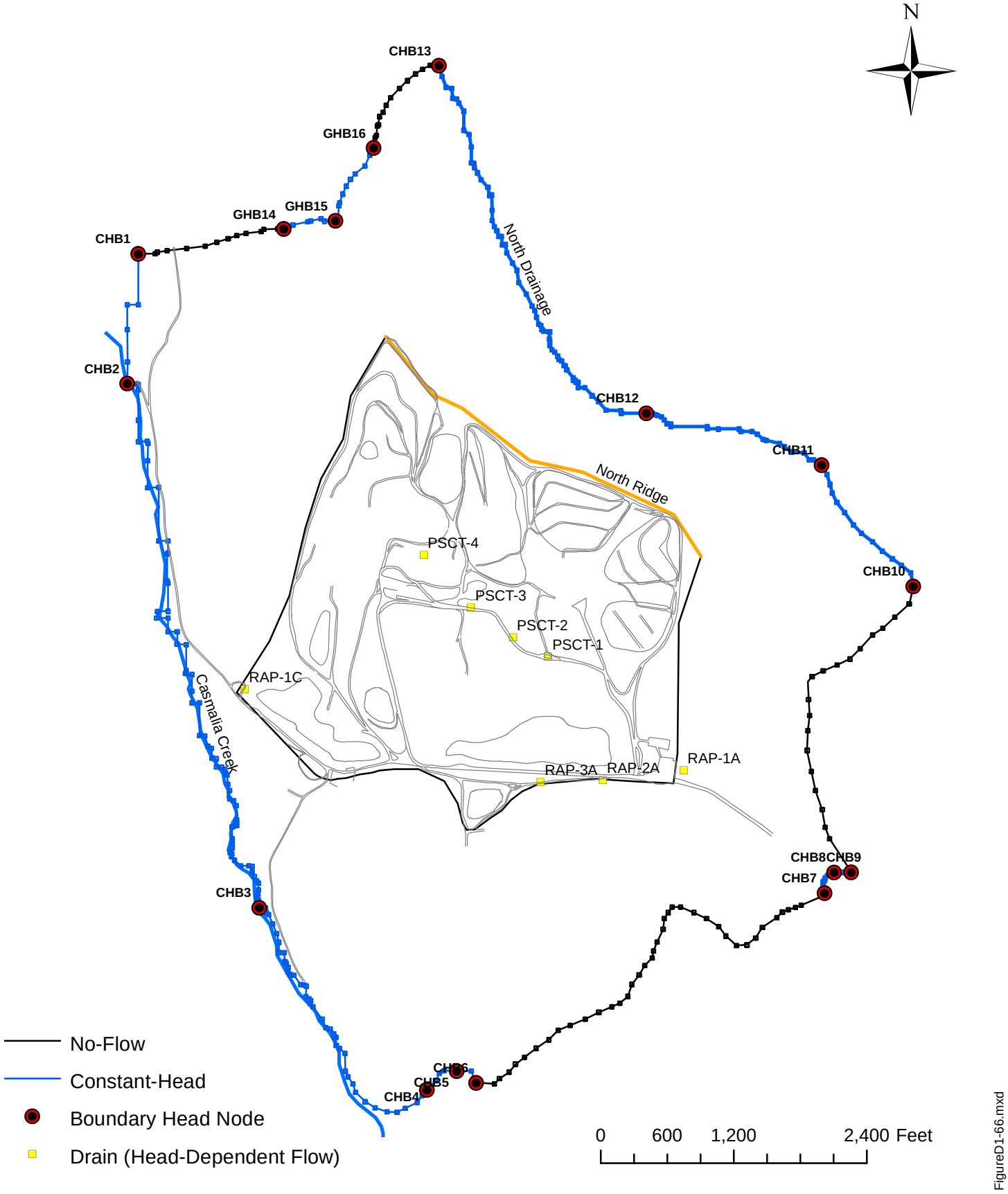
Boundary Conditions for Layer 3
Feasibility Study 2004 (Dry Season) and 2001 (Wet Season) Models

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-65

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

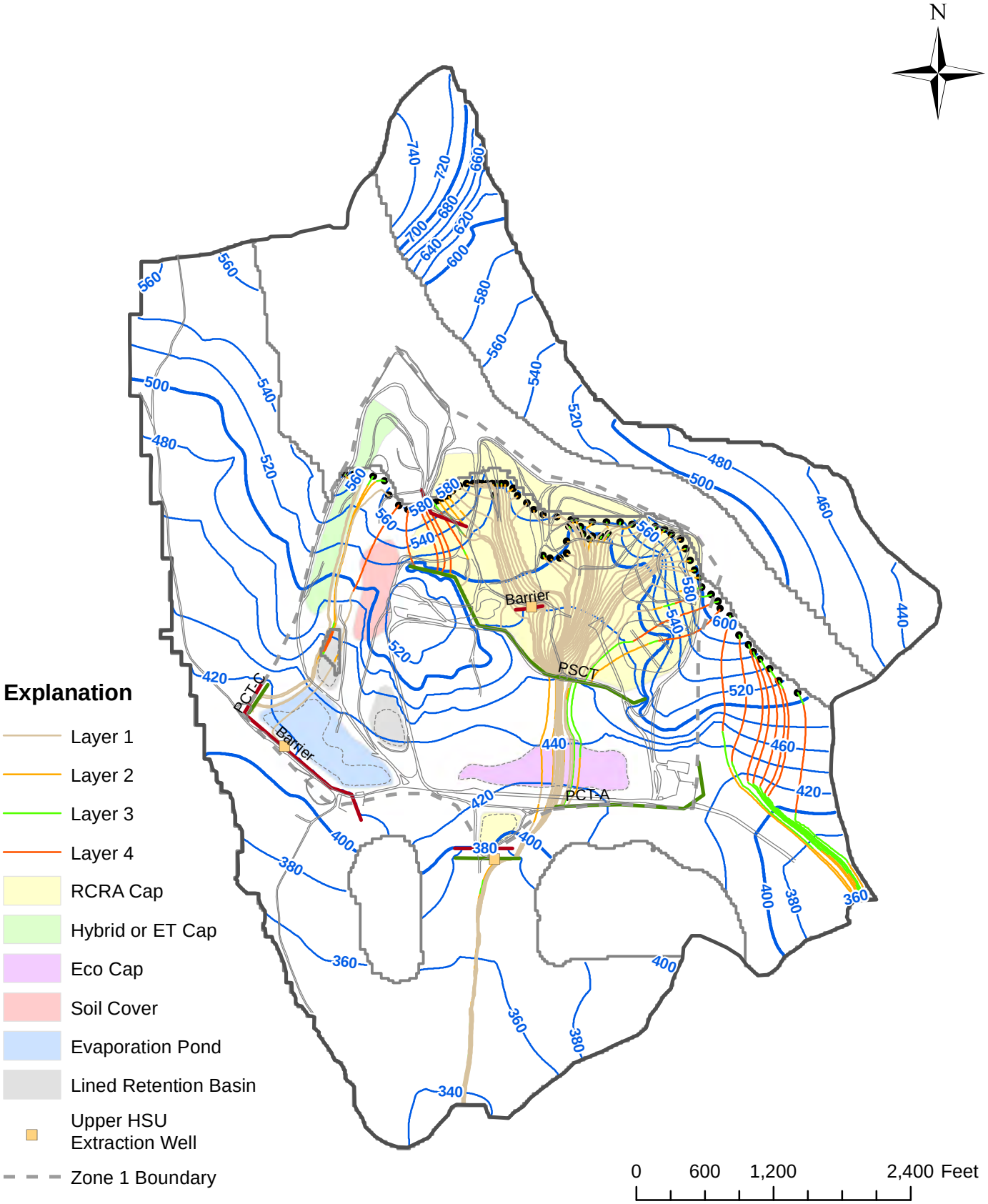


FigureD1-66.mxd

Boundary Conditions for Layer 4
FS March 2004 (Dry Season) and March 2001 (Wet Season) Models
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-66

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

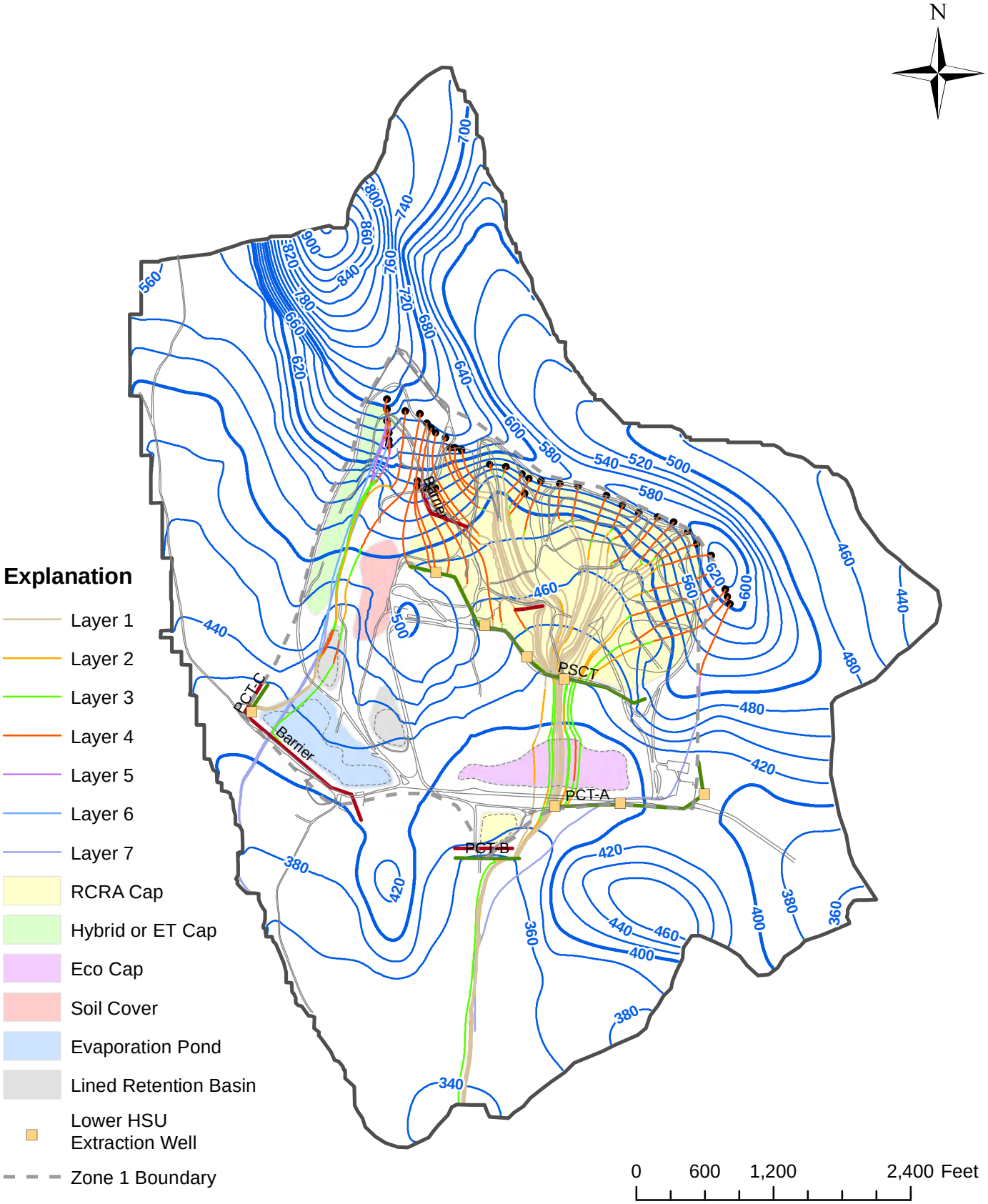


FigureD1-67.mxd

Alternative 2
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-67

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

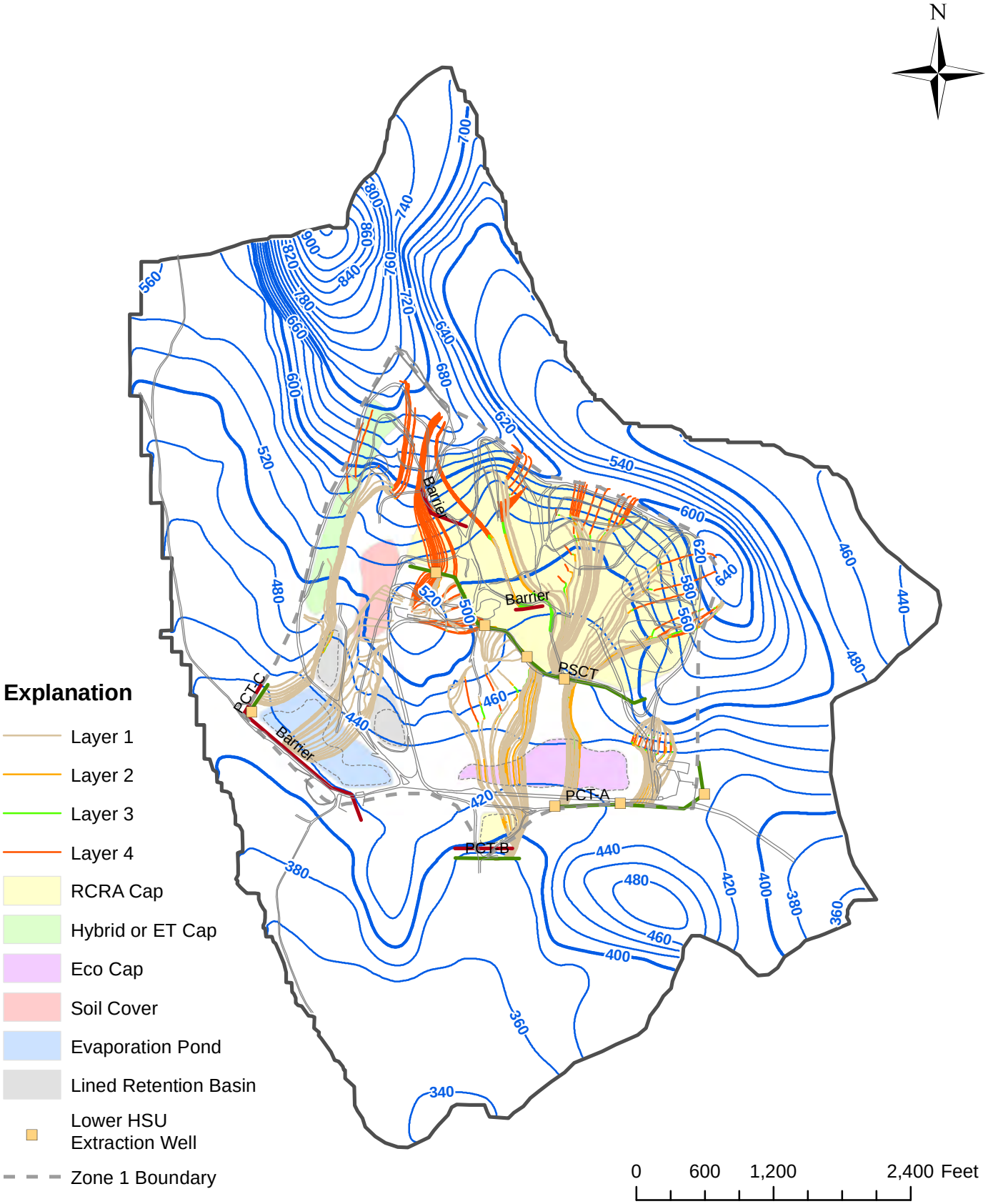


FigureD1-68.mxd

Alternative 2
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-68

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

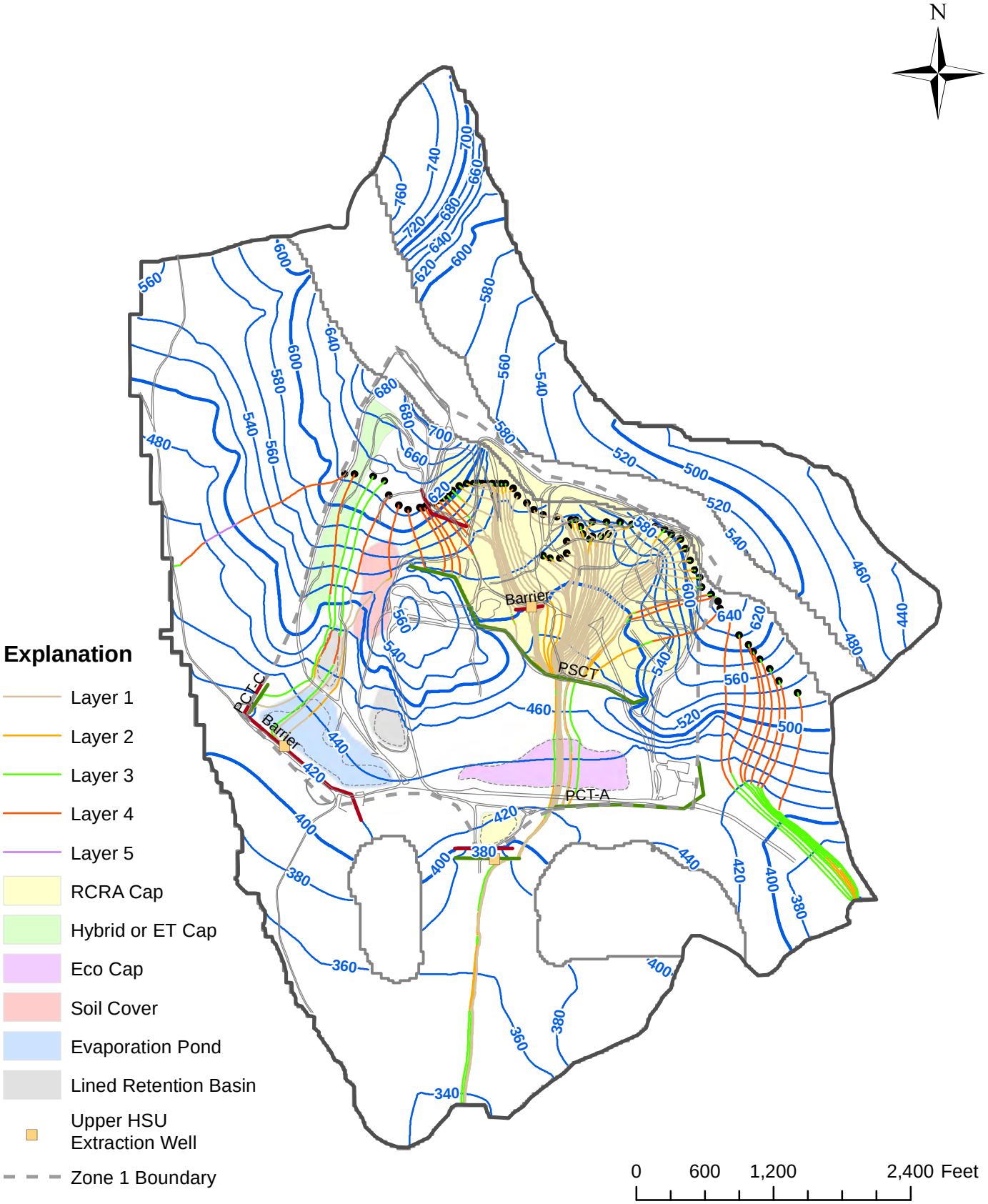


FigureD1-69.mxd

Alternative 2
Simulated Reverse Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-69

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

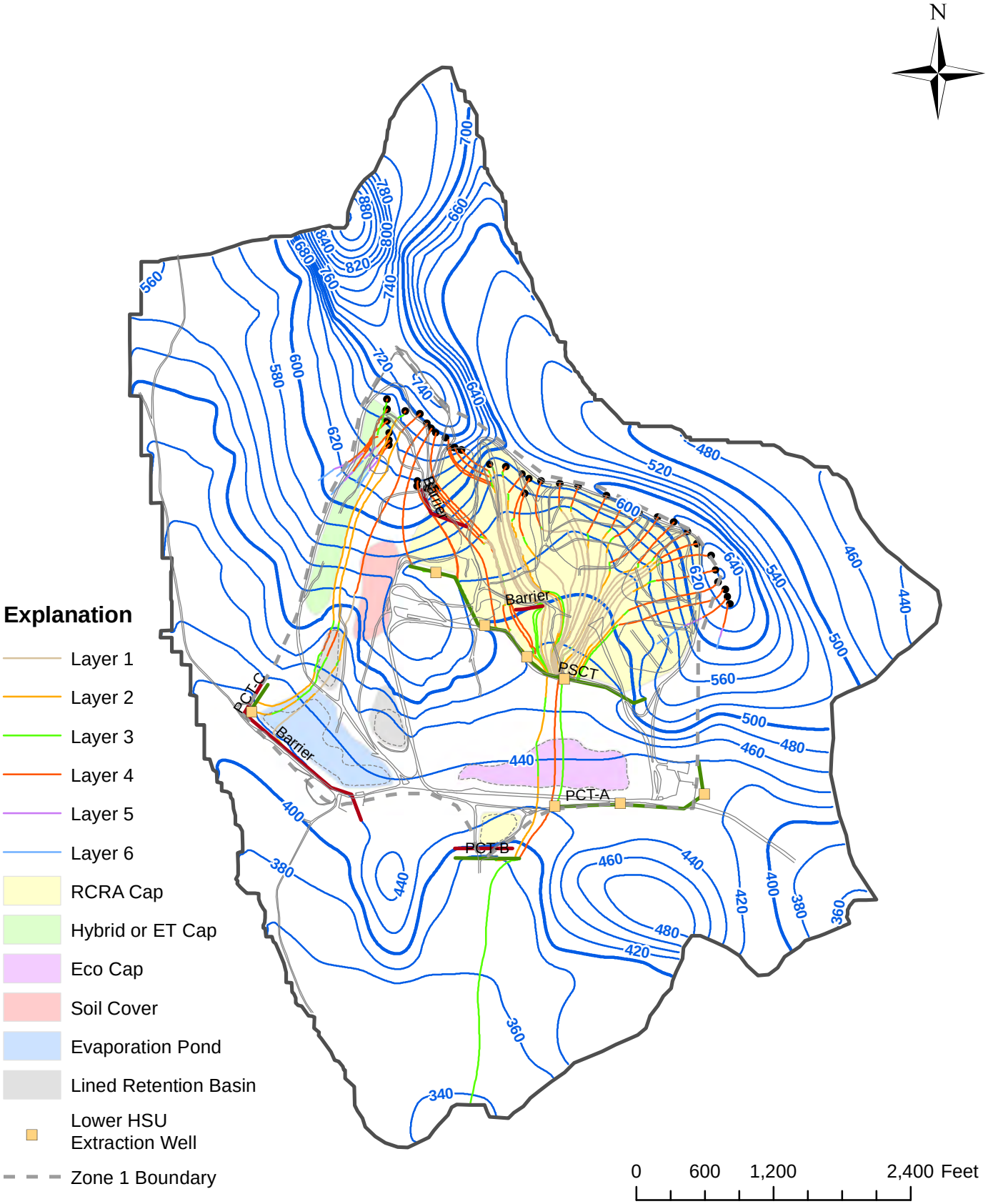


FigureD1-70.mxd

Alternative 2
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-70

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

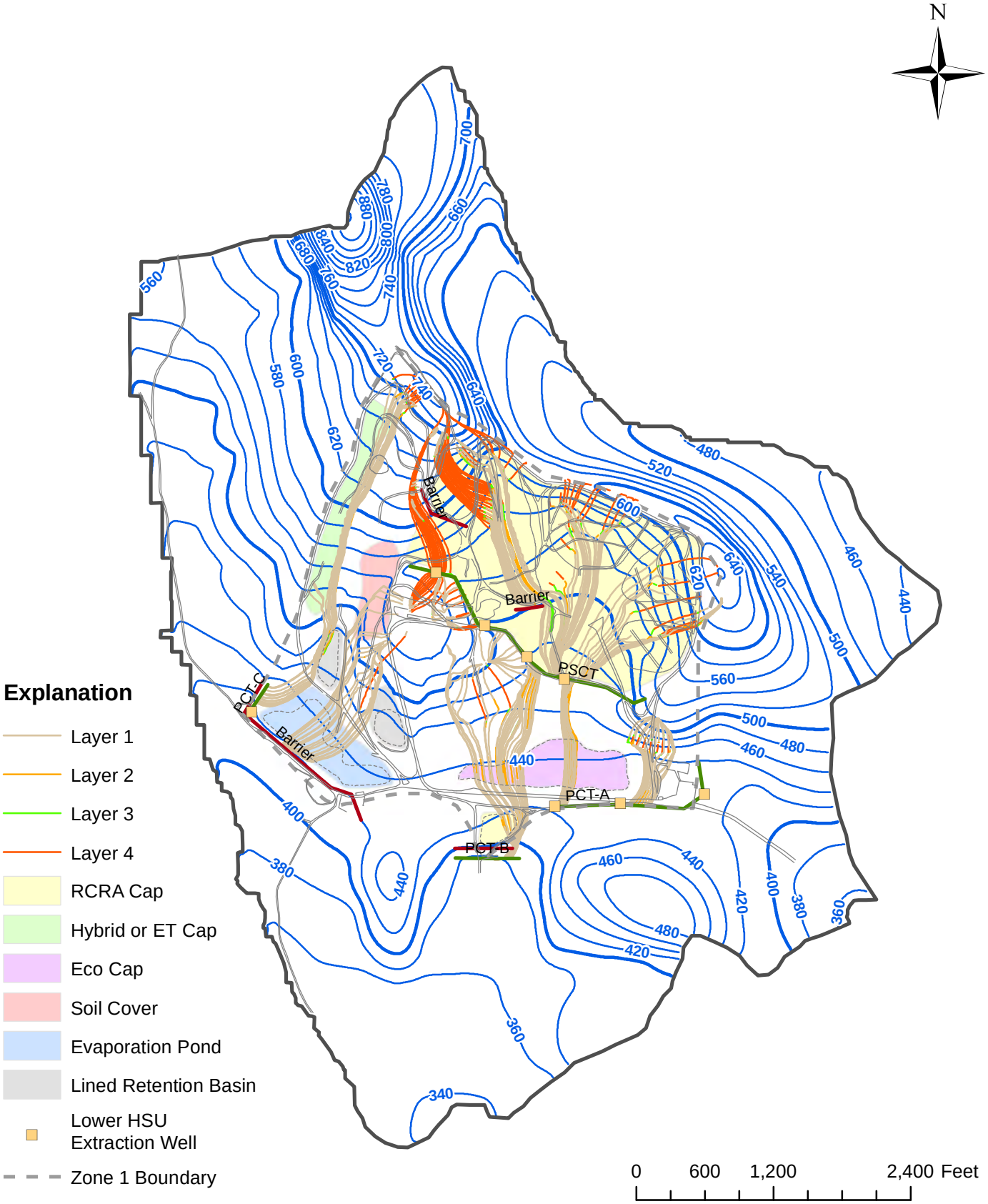


FigureD1-71.mxd

Alternative 2
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-71

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

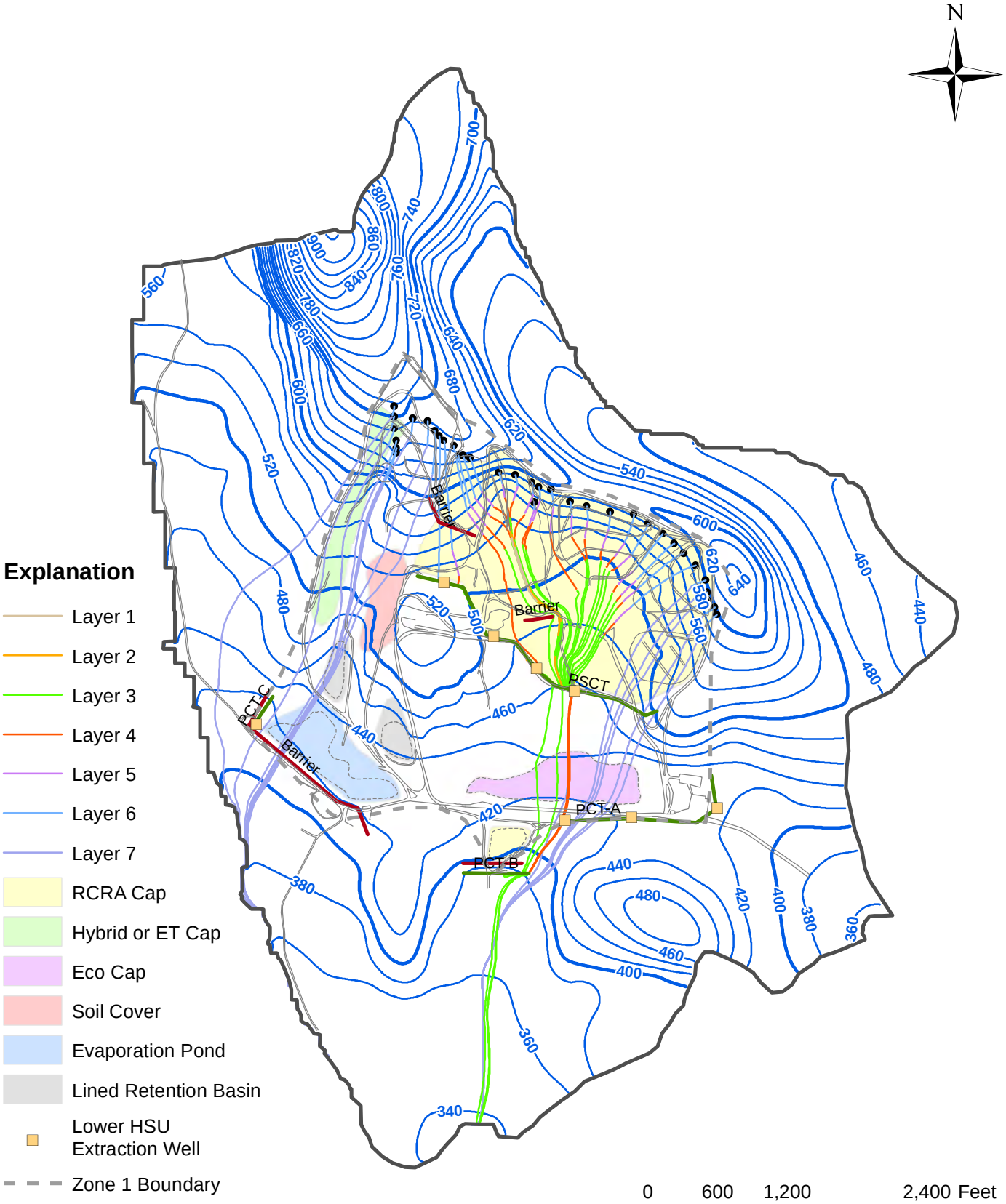


FigureD1-72.mxd

Alternative 2
Simulated Reverse Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-72

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



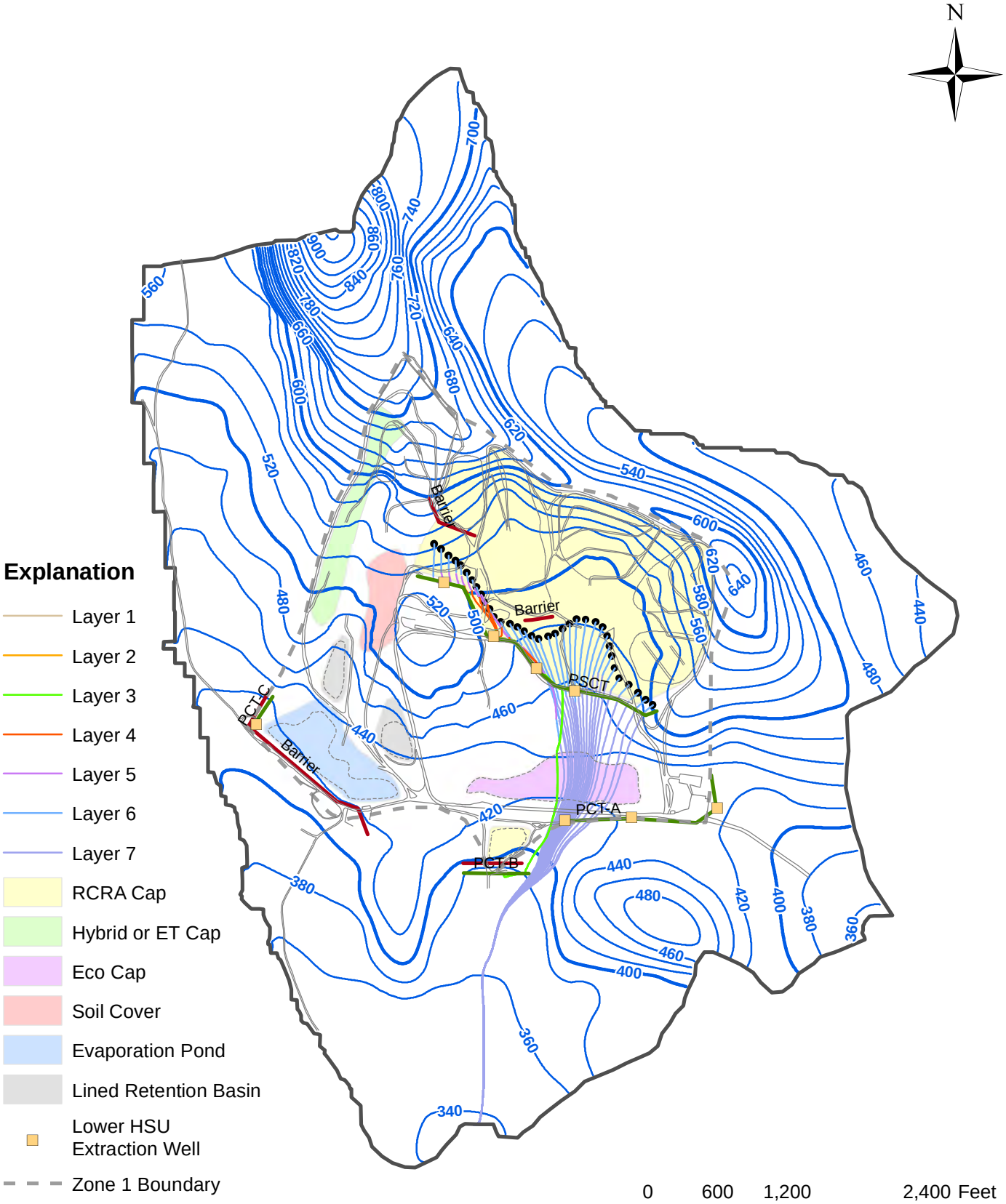
Alternative 2
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-73

FigureD1-73.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Alternative 2
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-74

FigureD1-74.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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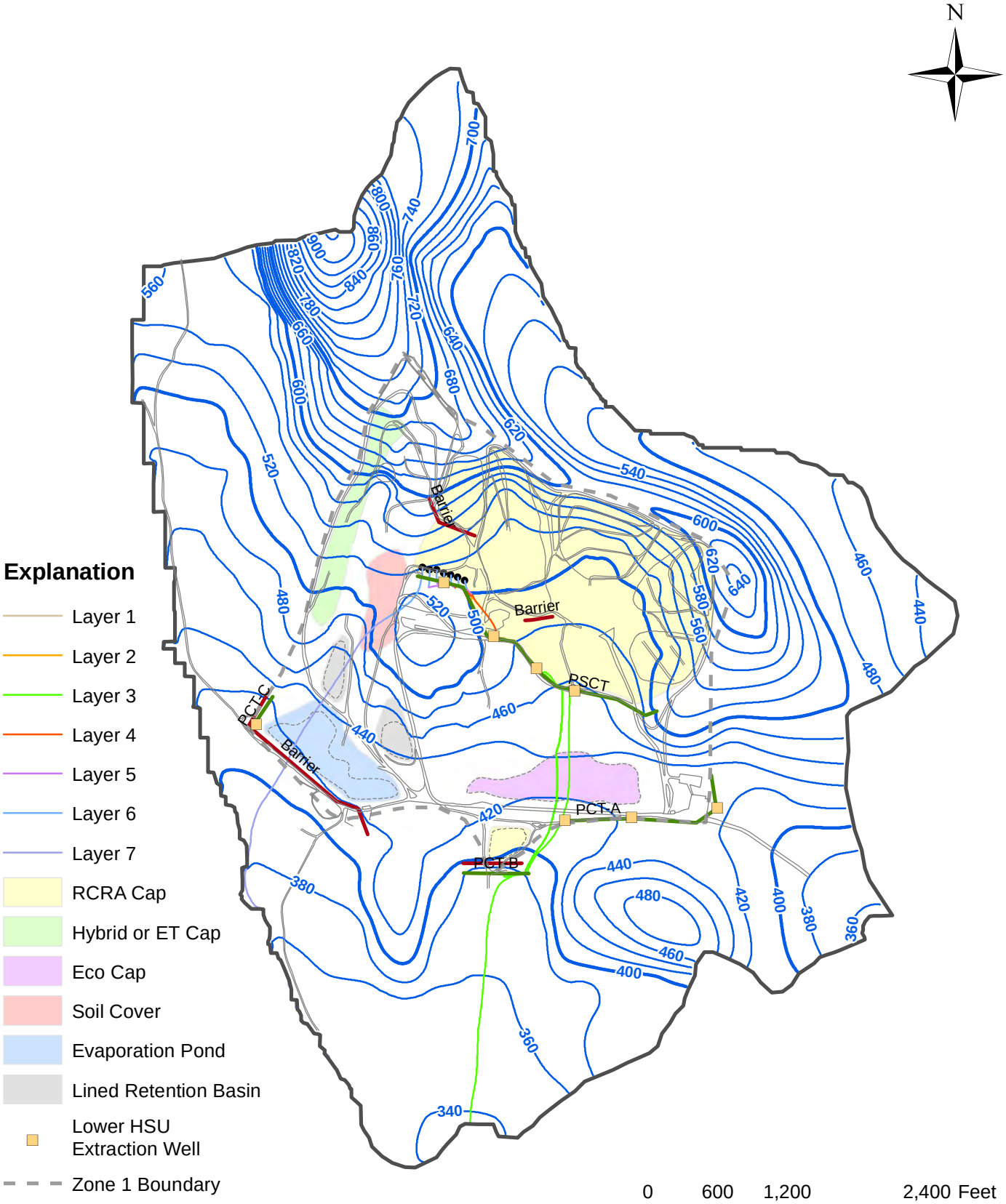

Alternative 2
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and and PSCT-4
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-75

FigureD1-75.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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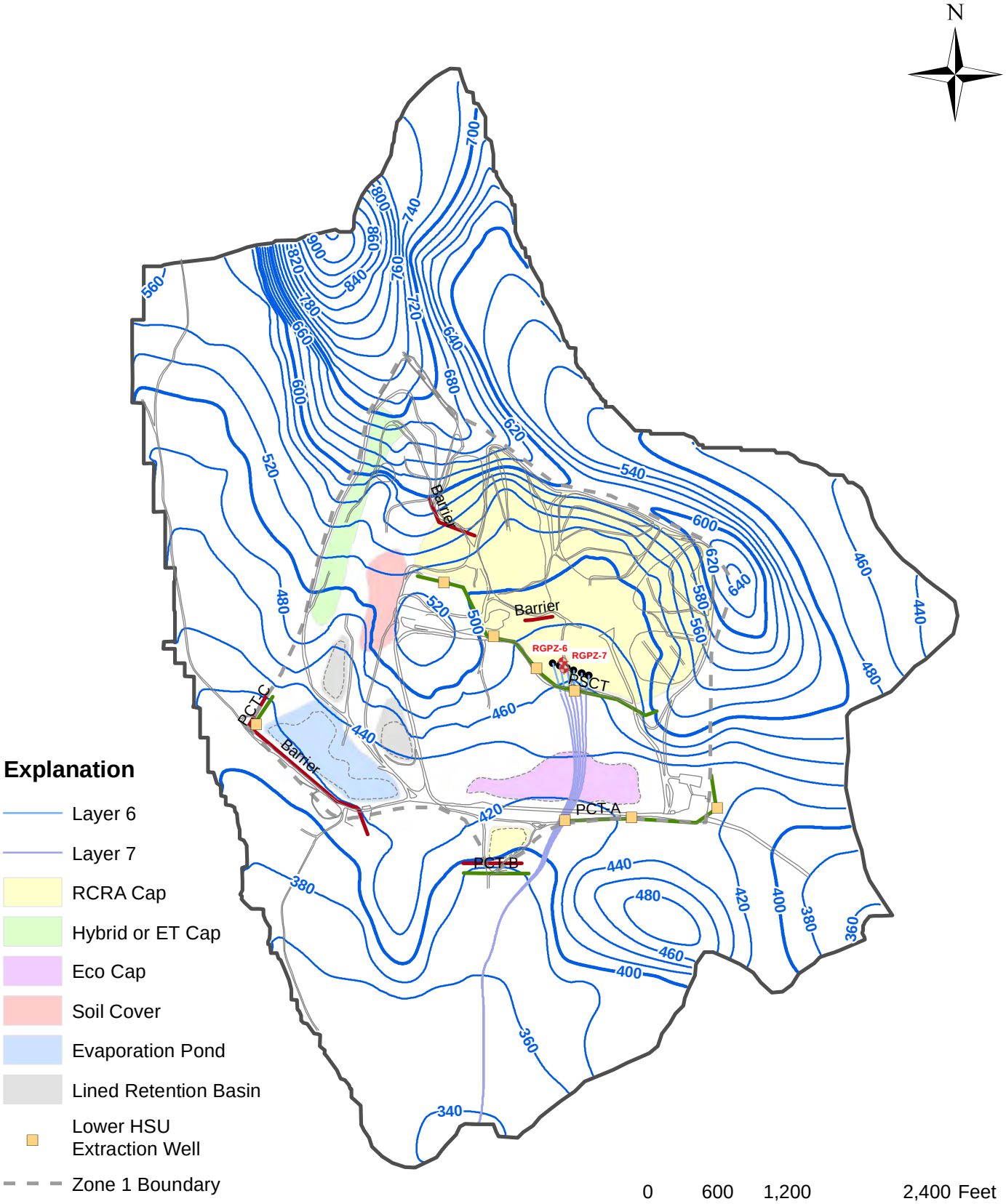

Alternative 2
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-76

FigureD1-76.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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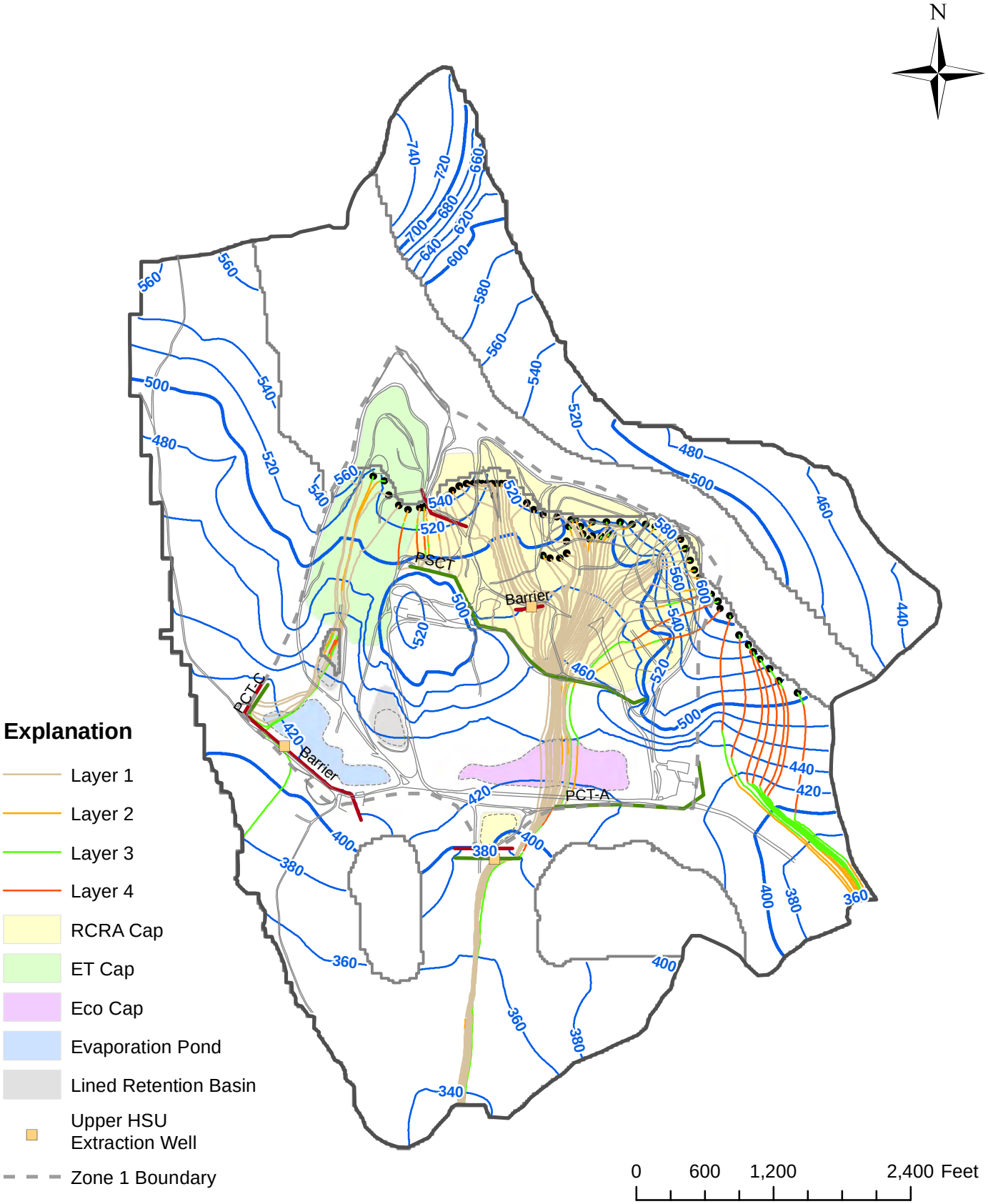
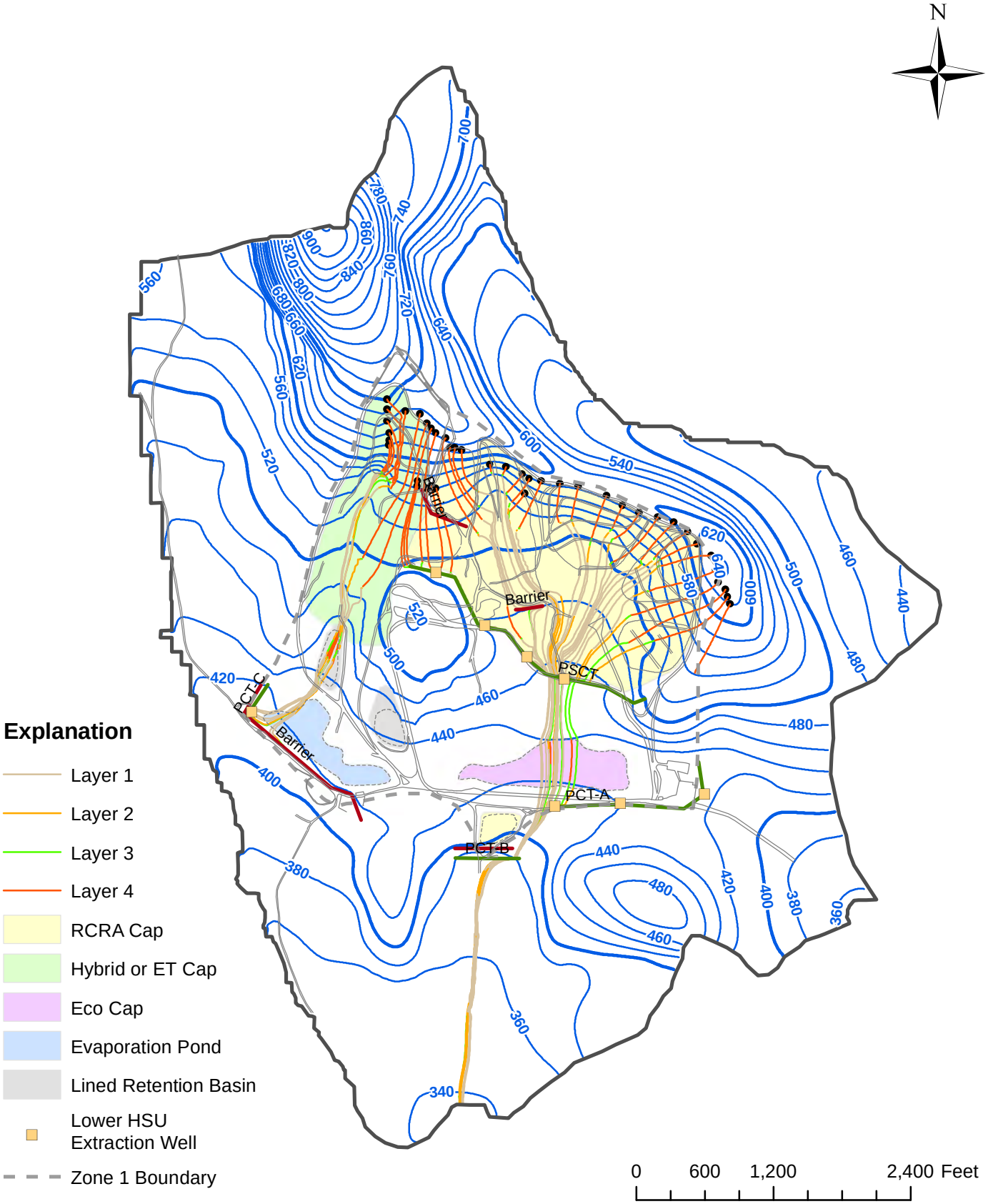


FigureD1-77.mxd

Alternative 3
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-77

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

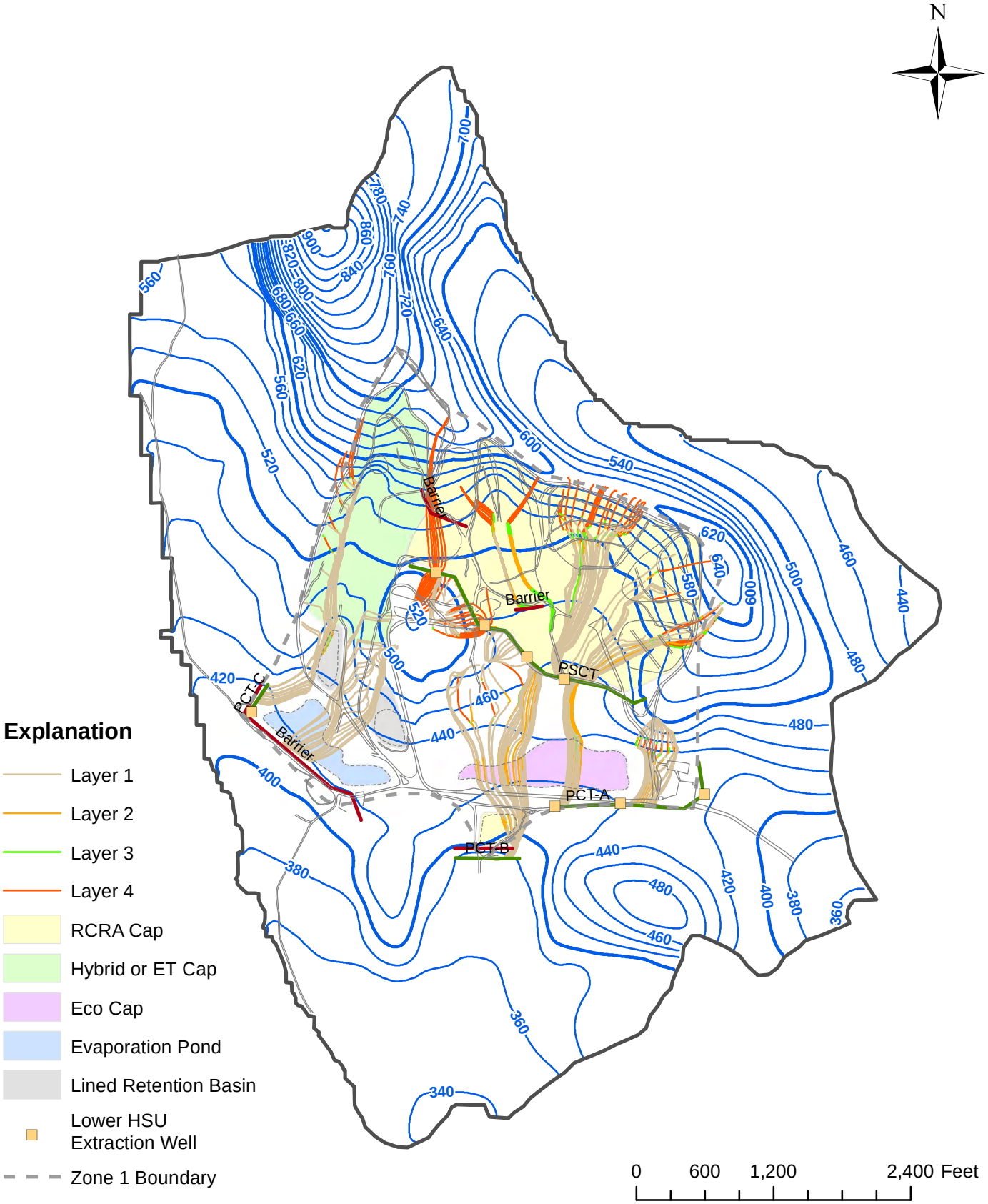


FigureD1-78.mxd

Alternative 3
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-78

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

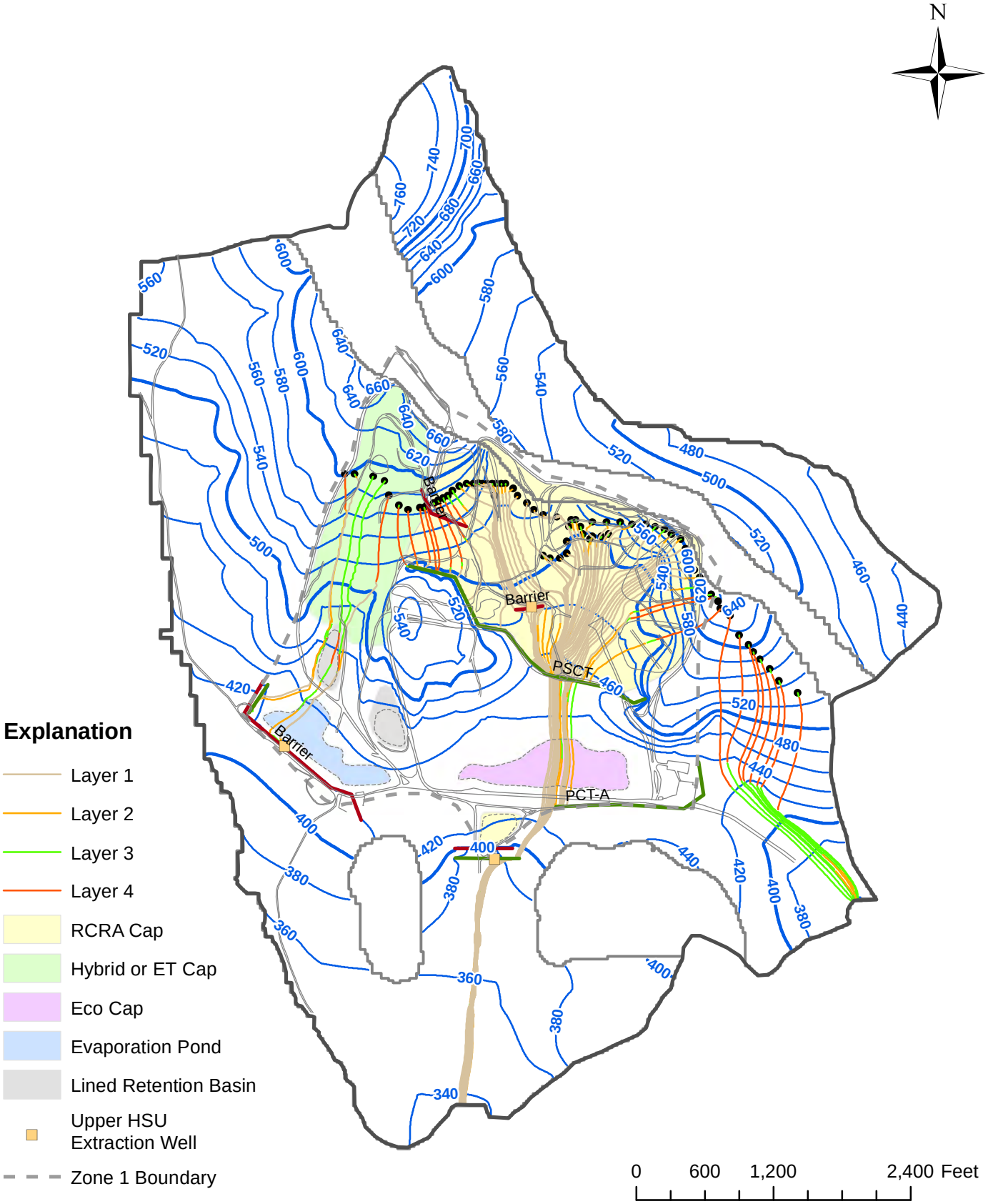


FigureD1-79.mxd

Alternative 3
Simulated Reverse Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-79

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

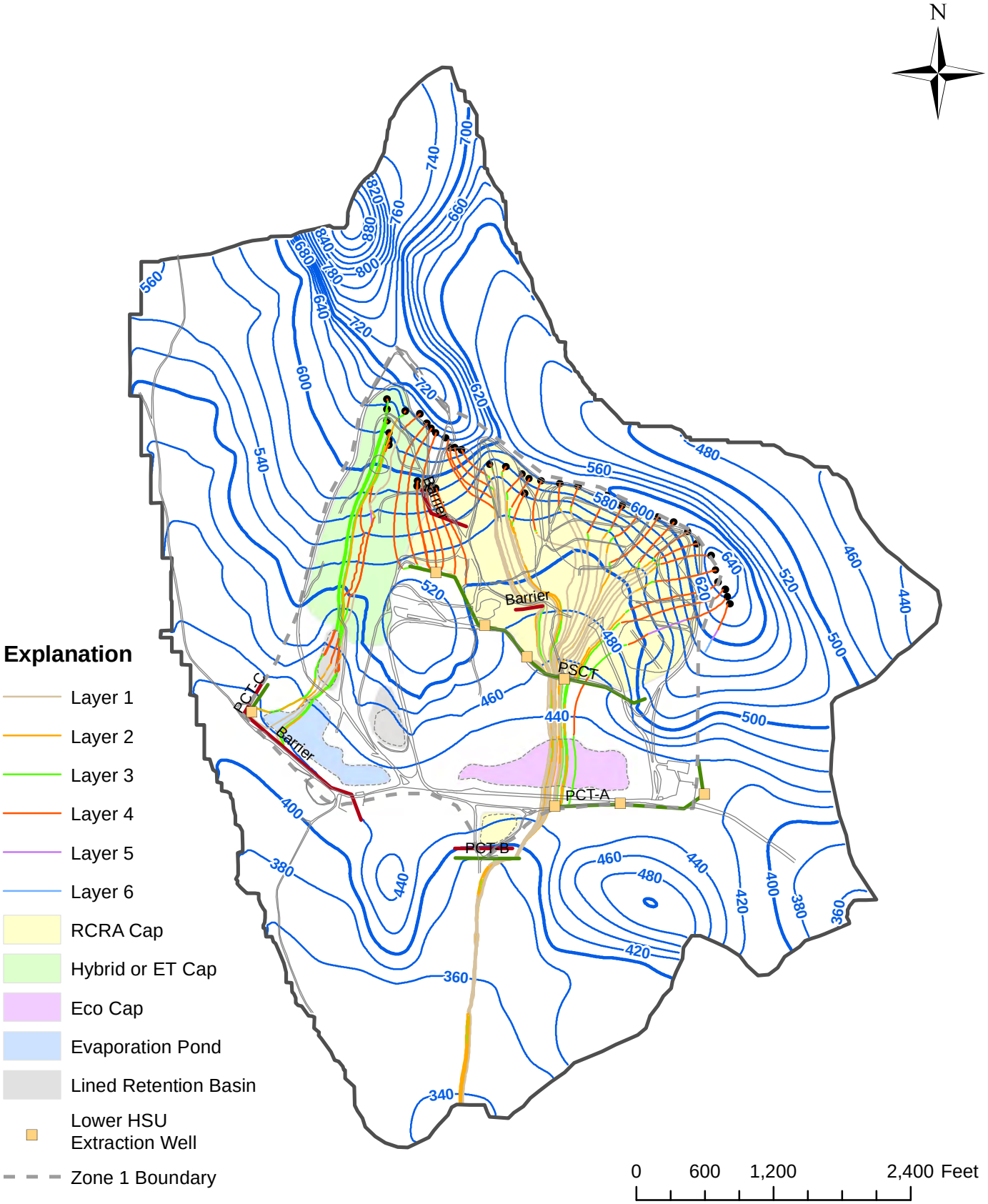


FigureD1-80.mxd

Alternative 3
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-80

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

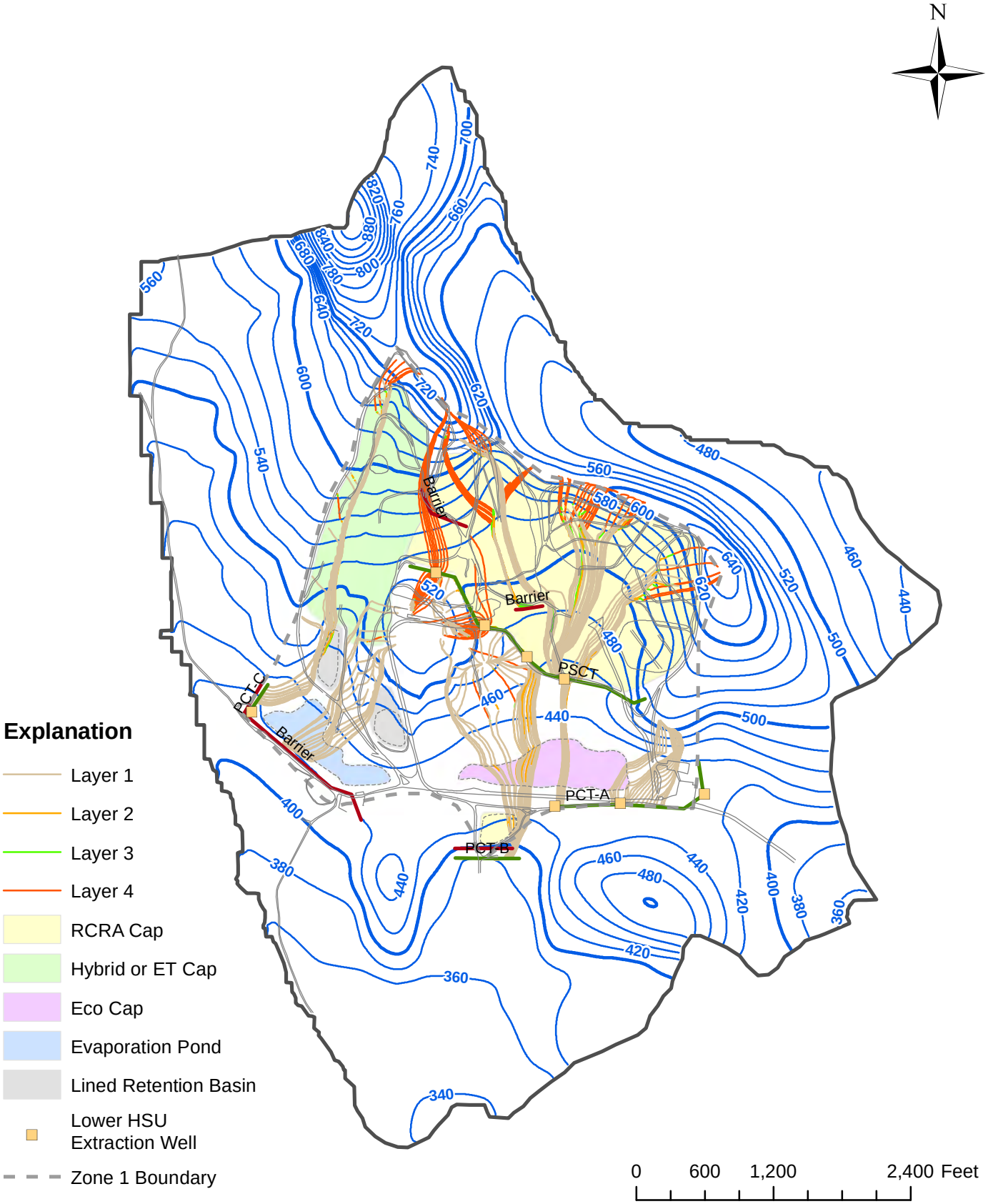


FigureD1-81.mxd

Alternative 3
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-81

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

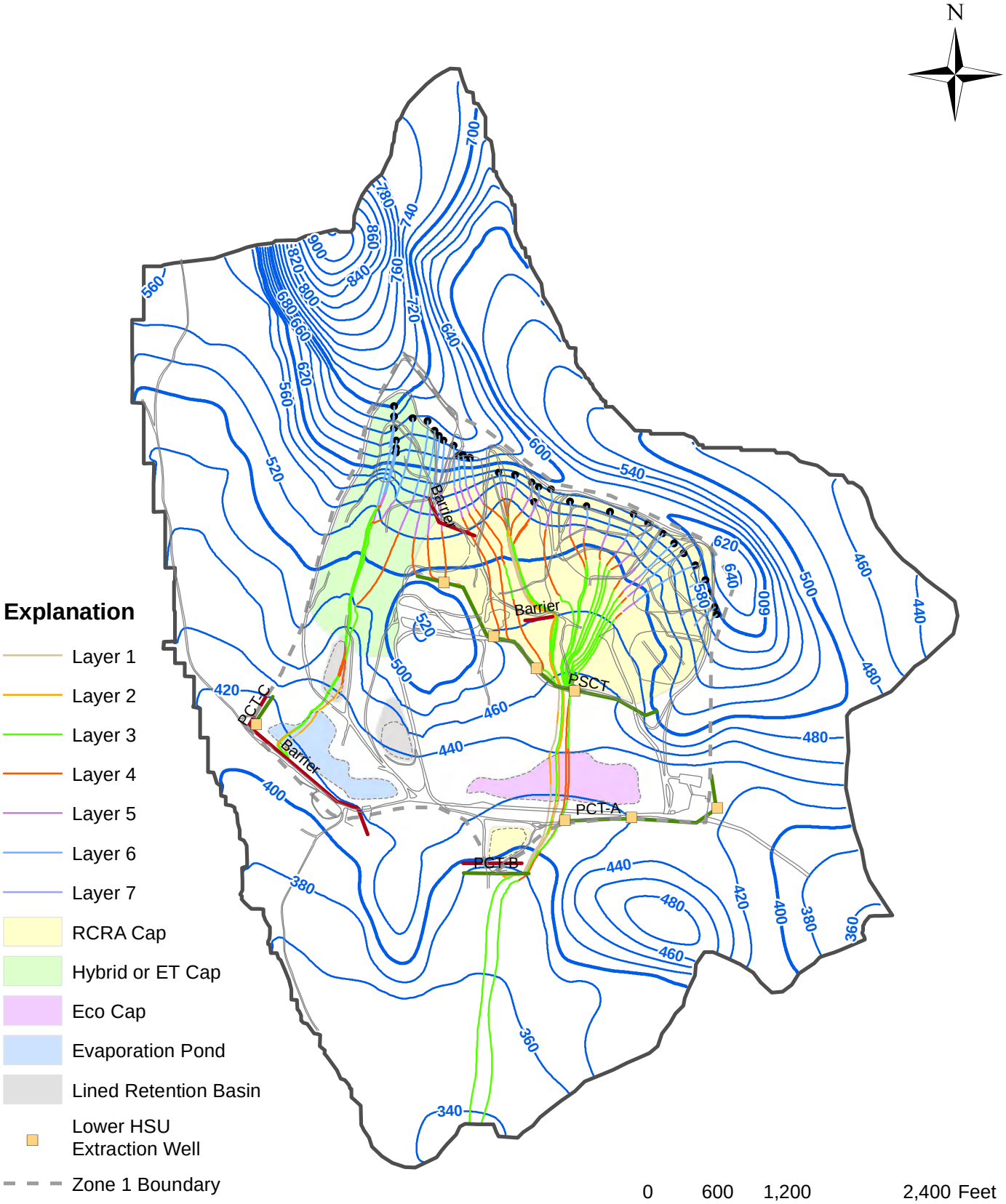


FigureD1-82.mxd

Alternative 3
Simulated Reverse Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-82

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Alternative 3
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-83

FigureD1-83.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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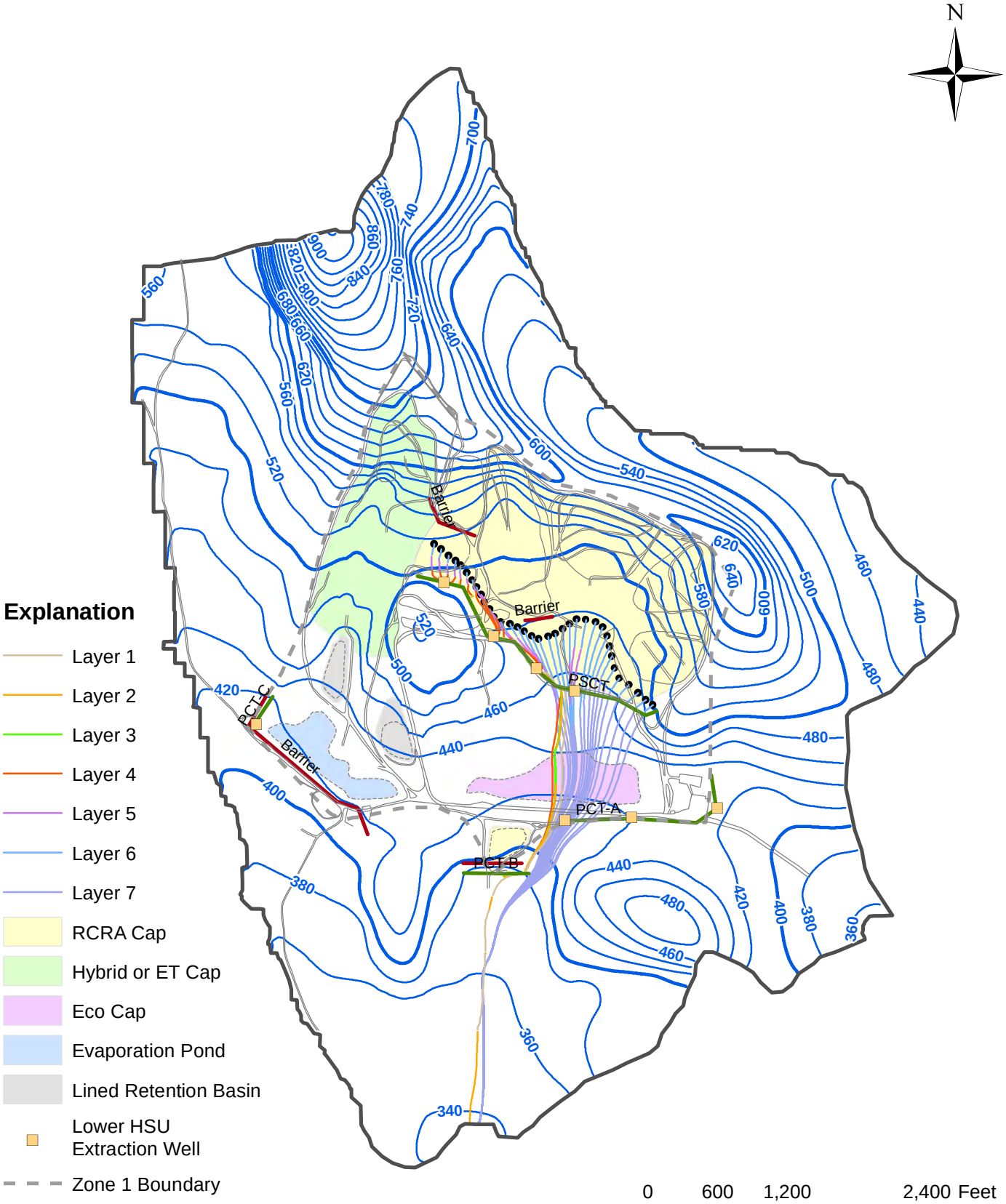

Alternative 3
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-84

FigureD1-84.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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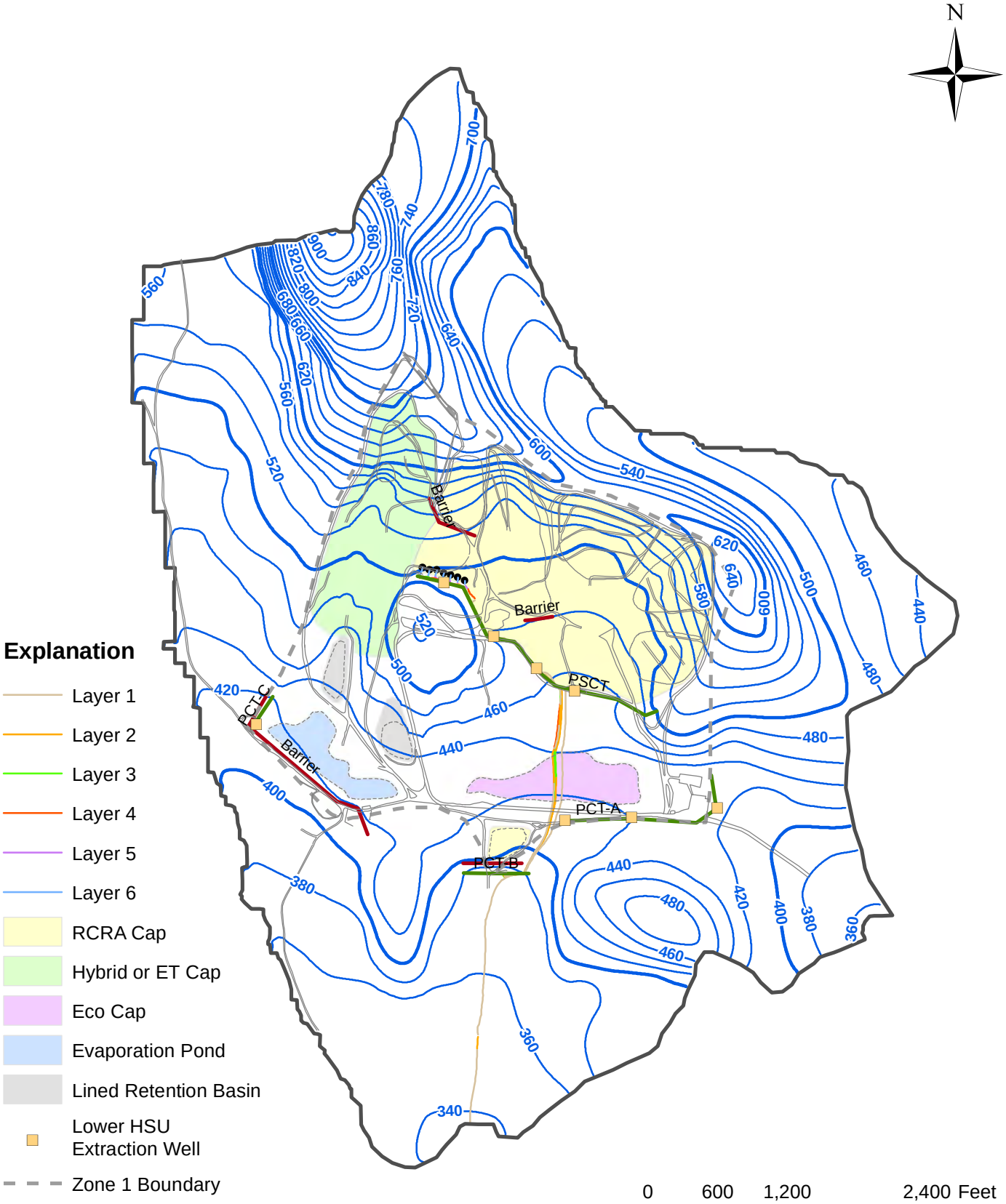

Alternative 3
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and and PSCT-4
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-85

FigureD1-85.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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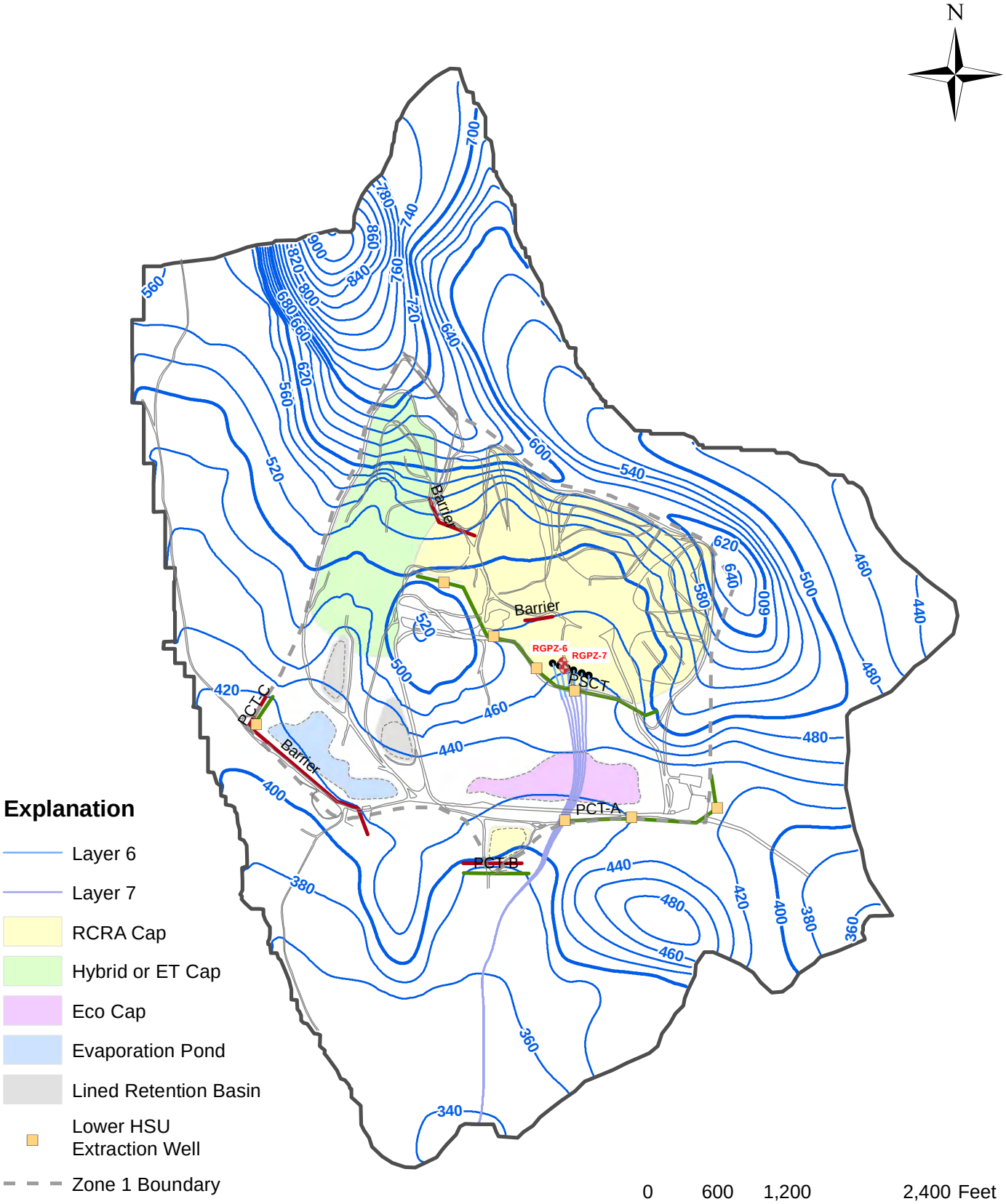

Alternative 3
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-86

FigureD1-86.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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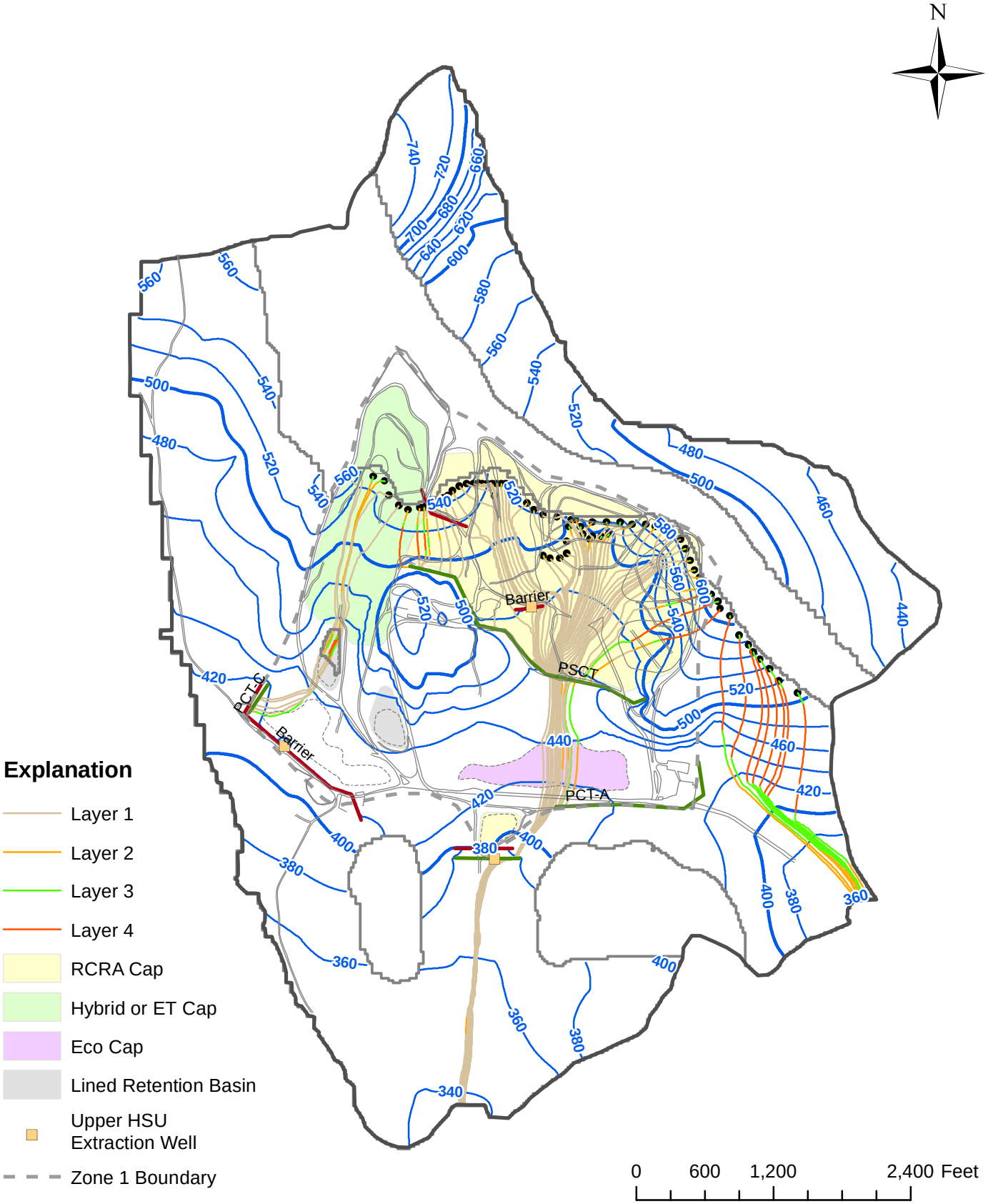
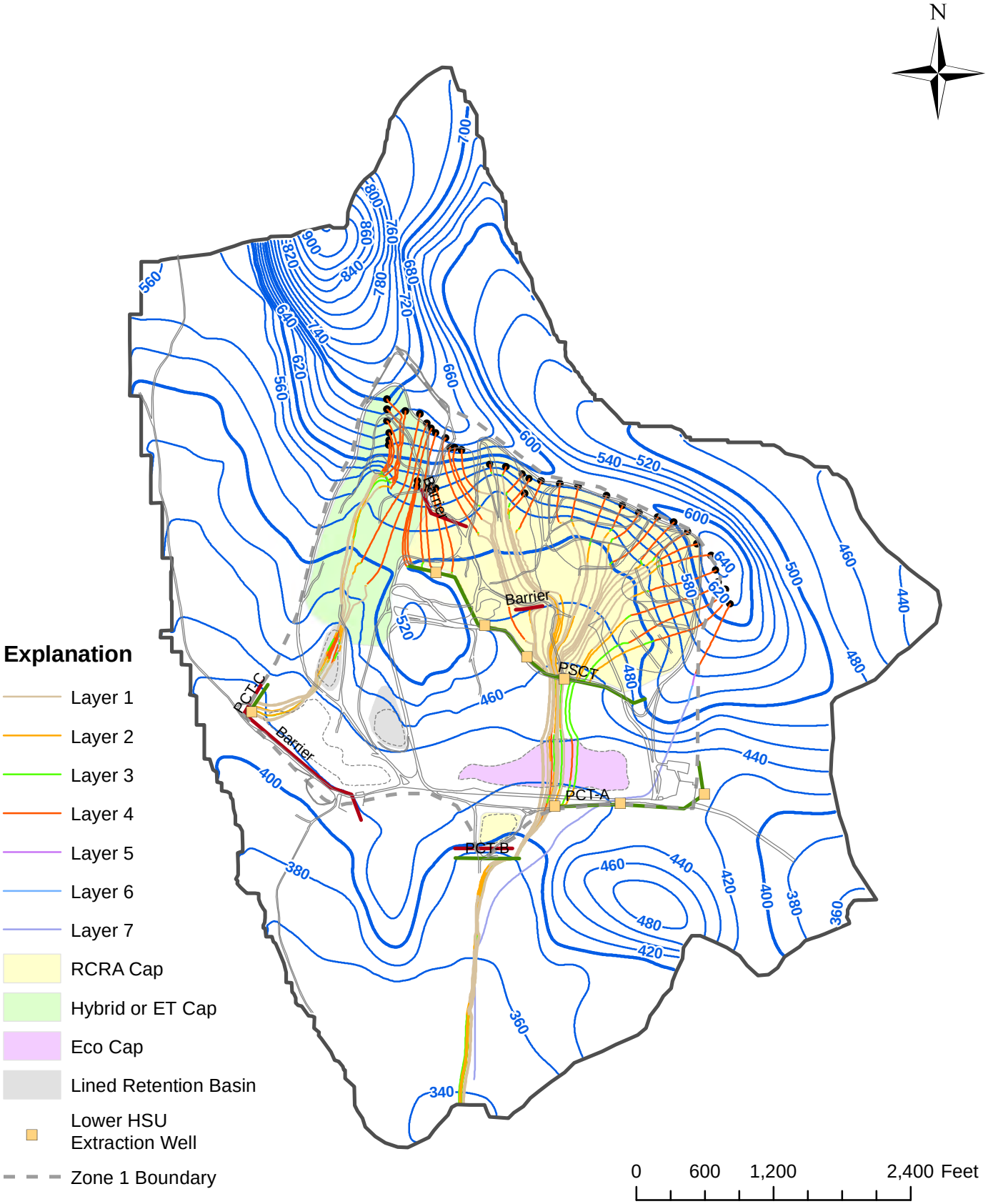


FigureD1-87.mxd

Alternative 4
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-87

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

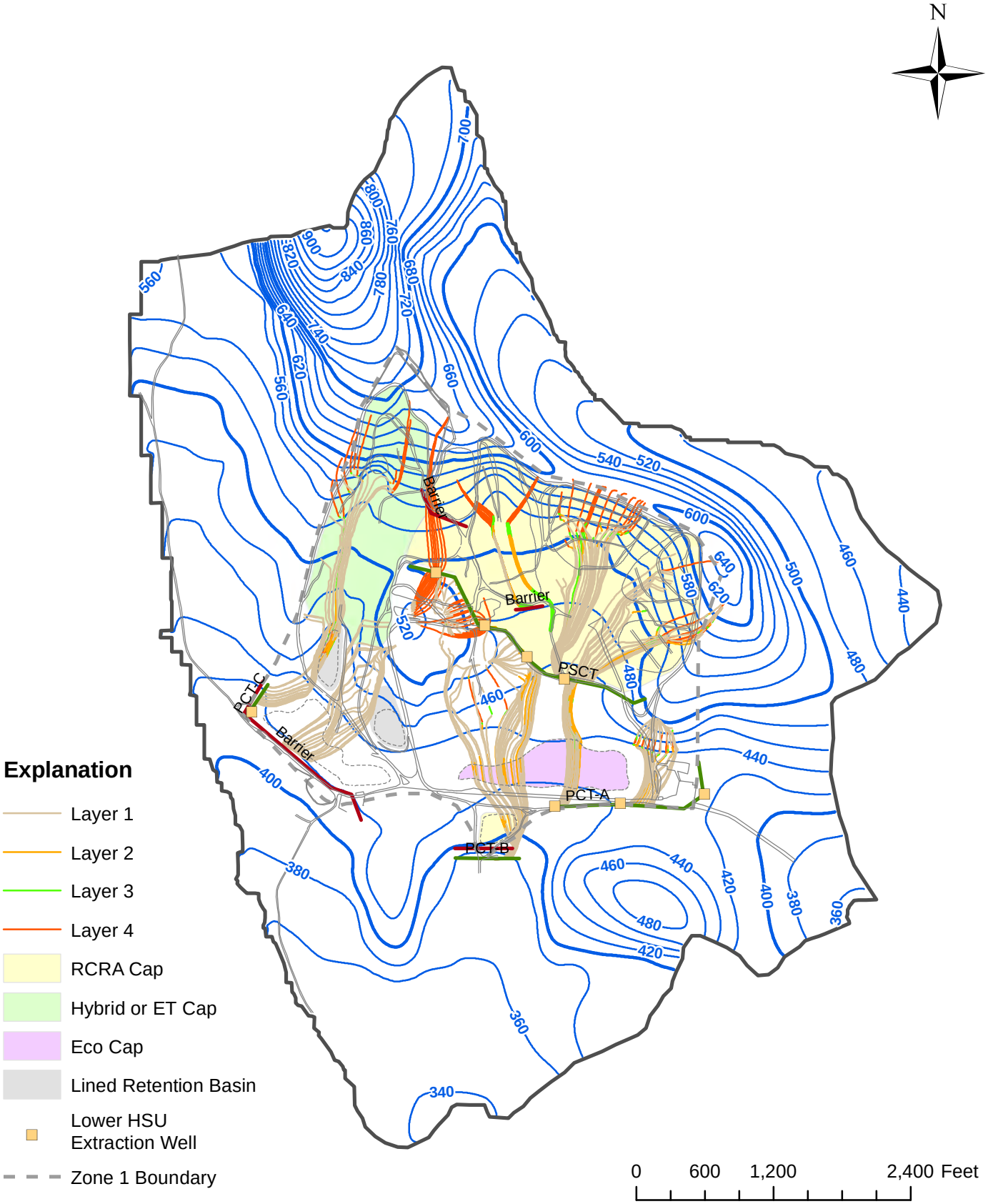


FigureD1-88.mxd

Alternative 4
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-88

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

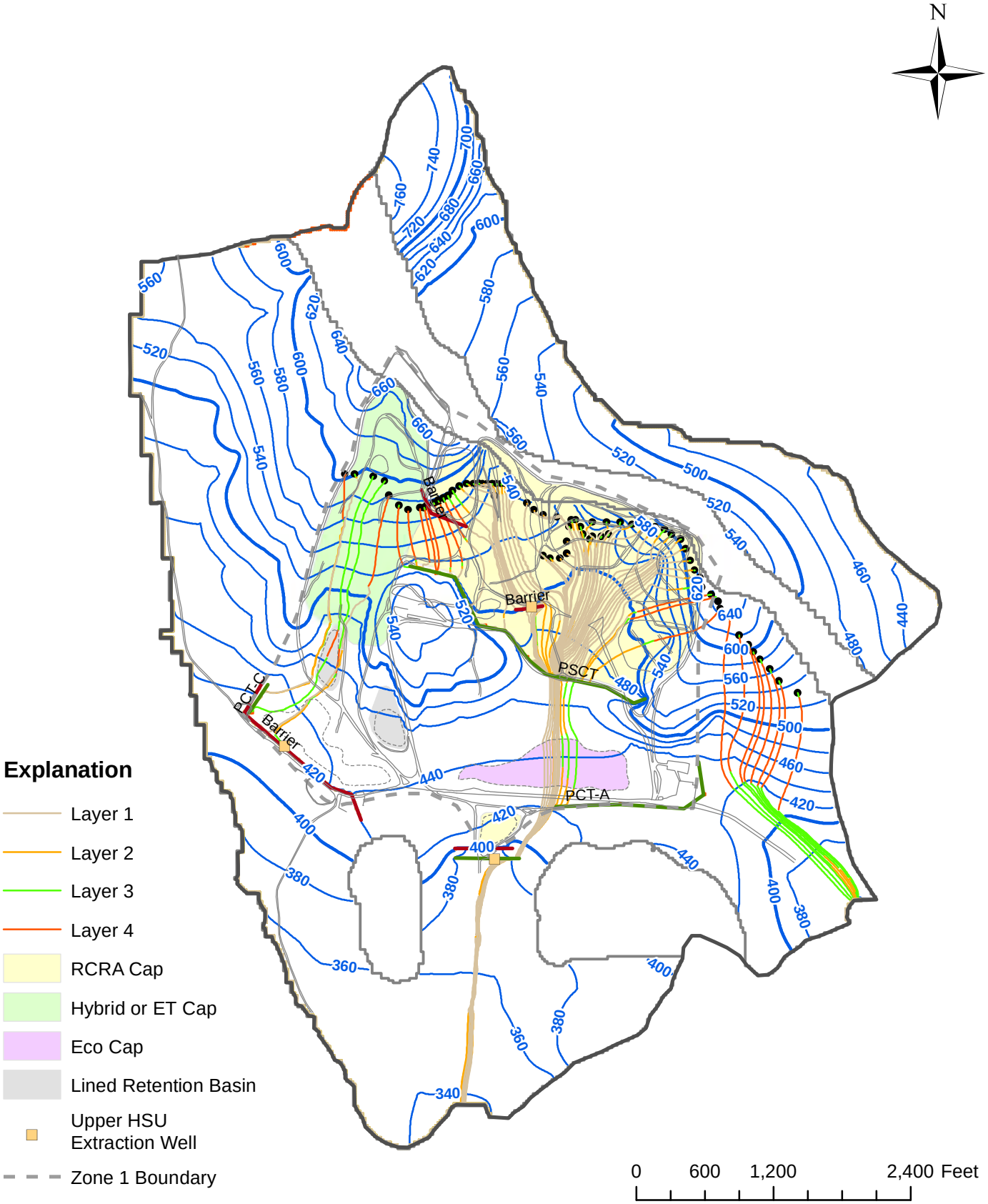


FigureD1-89.mxd

Alternative 4
Simulated Reverse Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-89

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

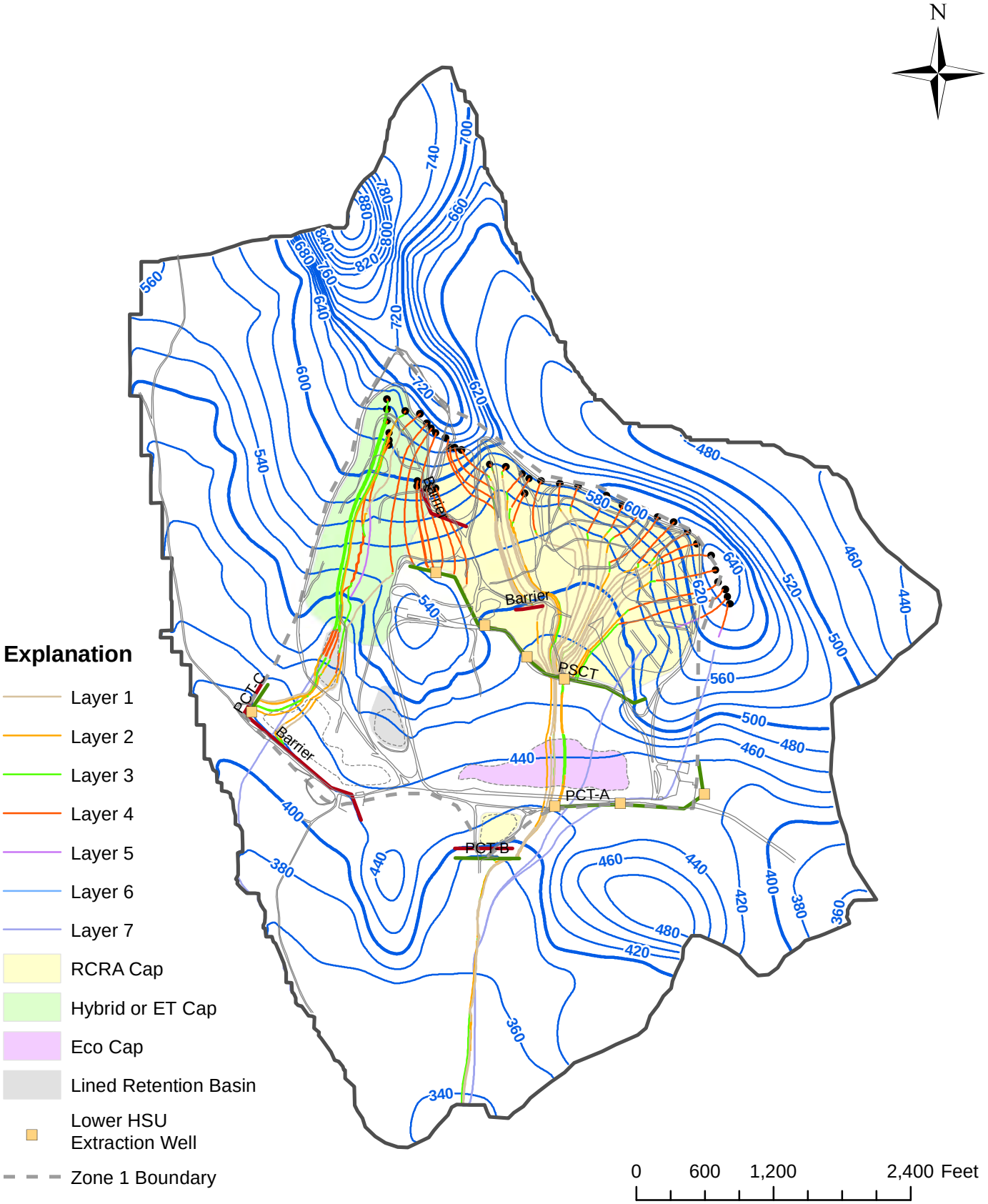


FigureD1-90.mxd

Alternative 4
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-90

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

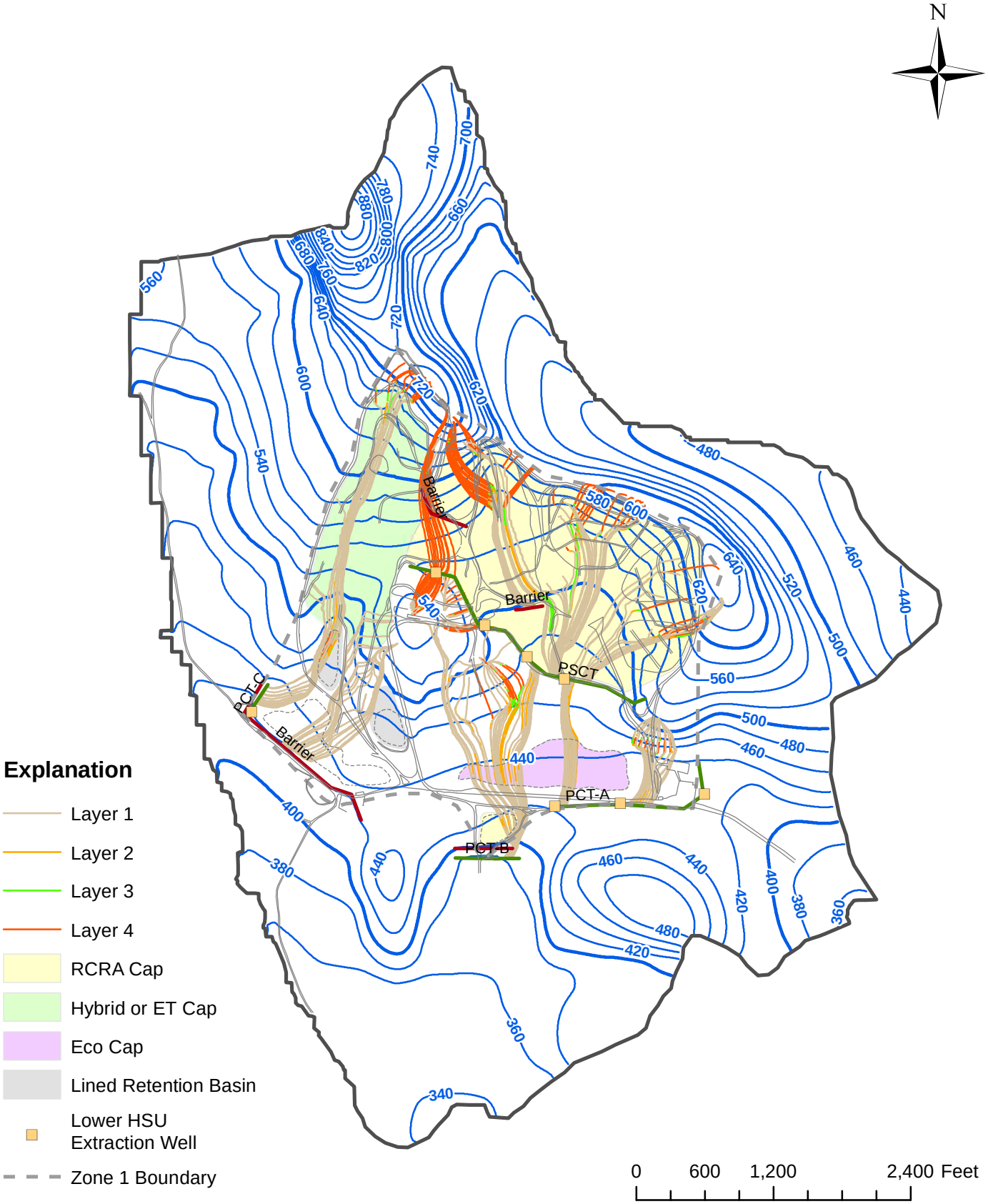


FigureD1-91.mxd

Alternative 4
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-91

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

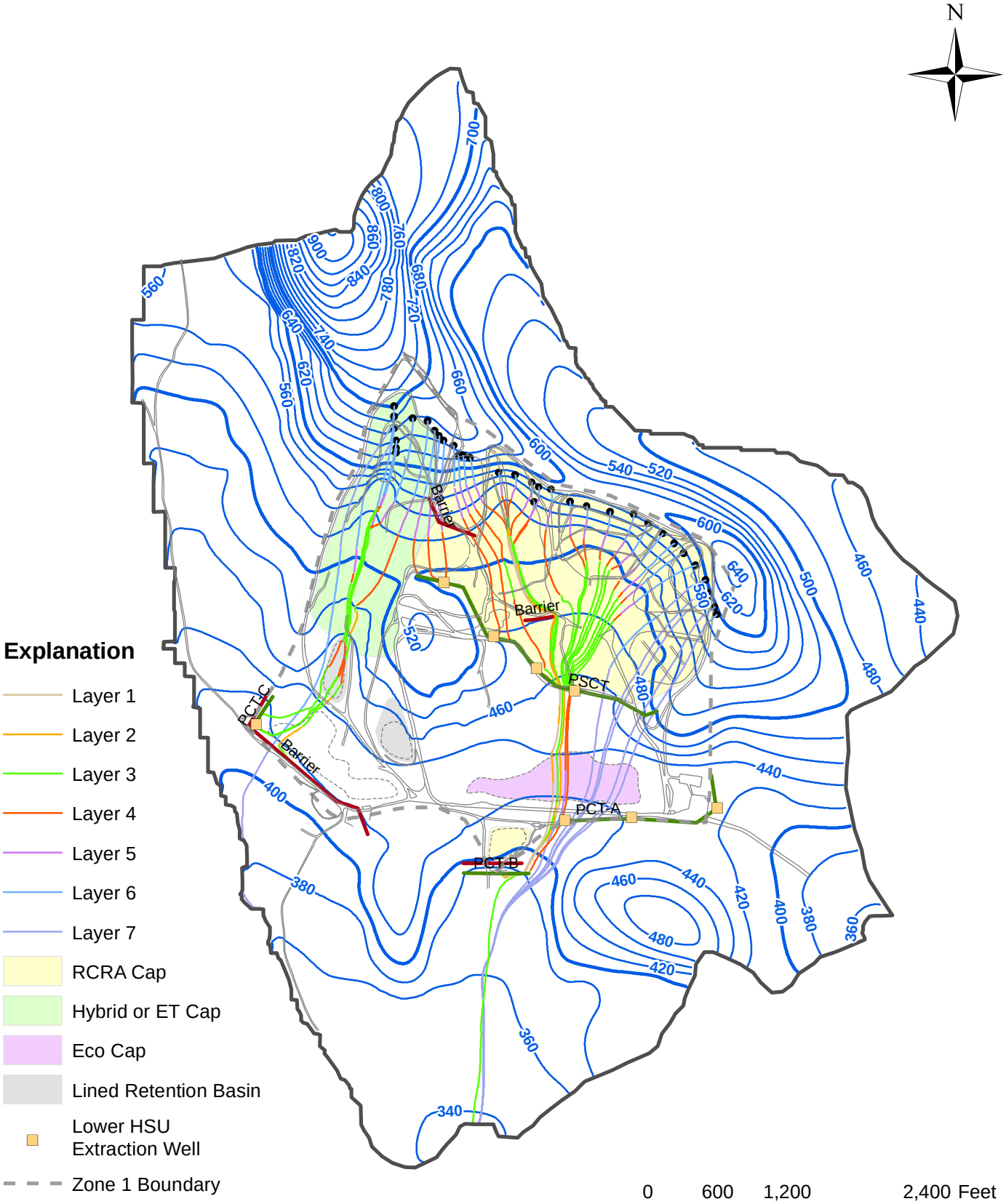


FigureD1-92.mxd

Alternative 4
Simulated Reverse Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-92

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Alternative 4
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-93

FigureD1-93.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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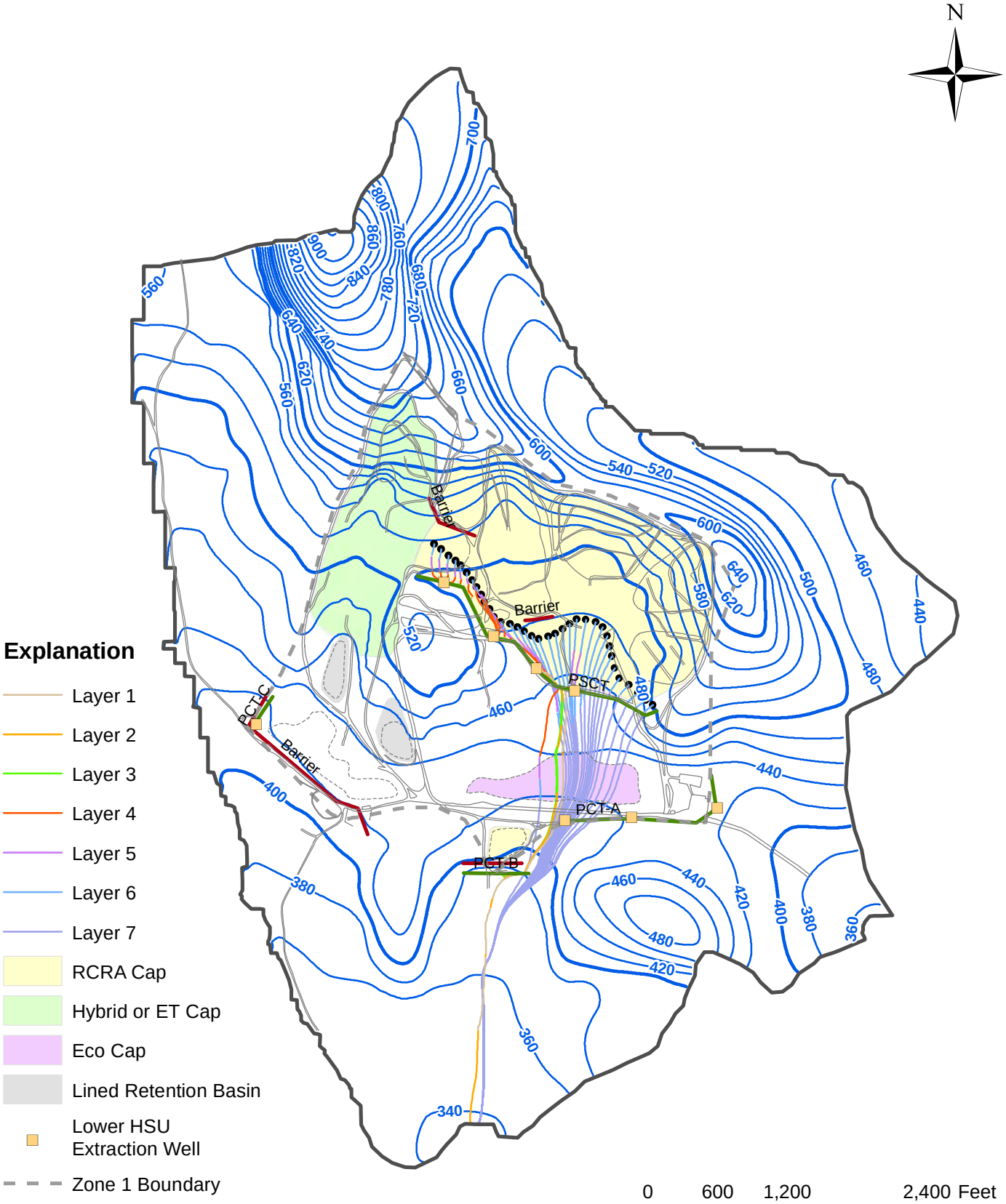

Alternative 4
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-94

FigureD1-94.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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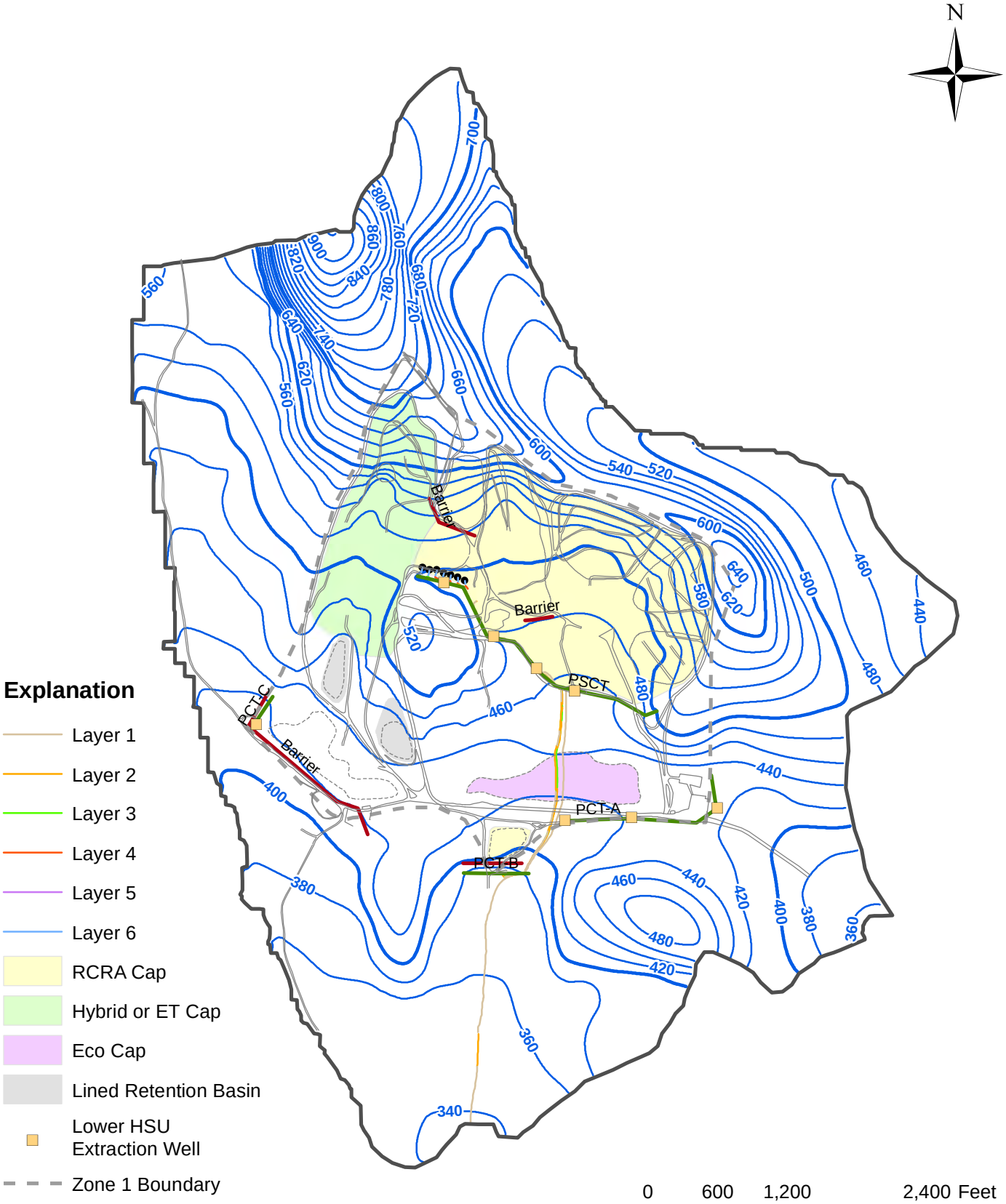

Alternative 4
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and and PSCT-4
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-95

FigureD1-95.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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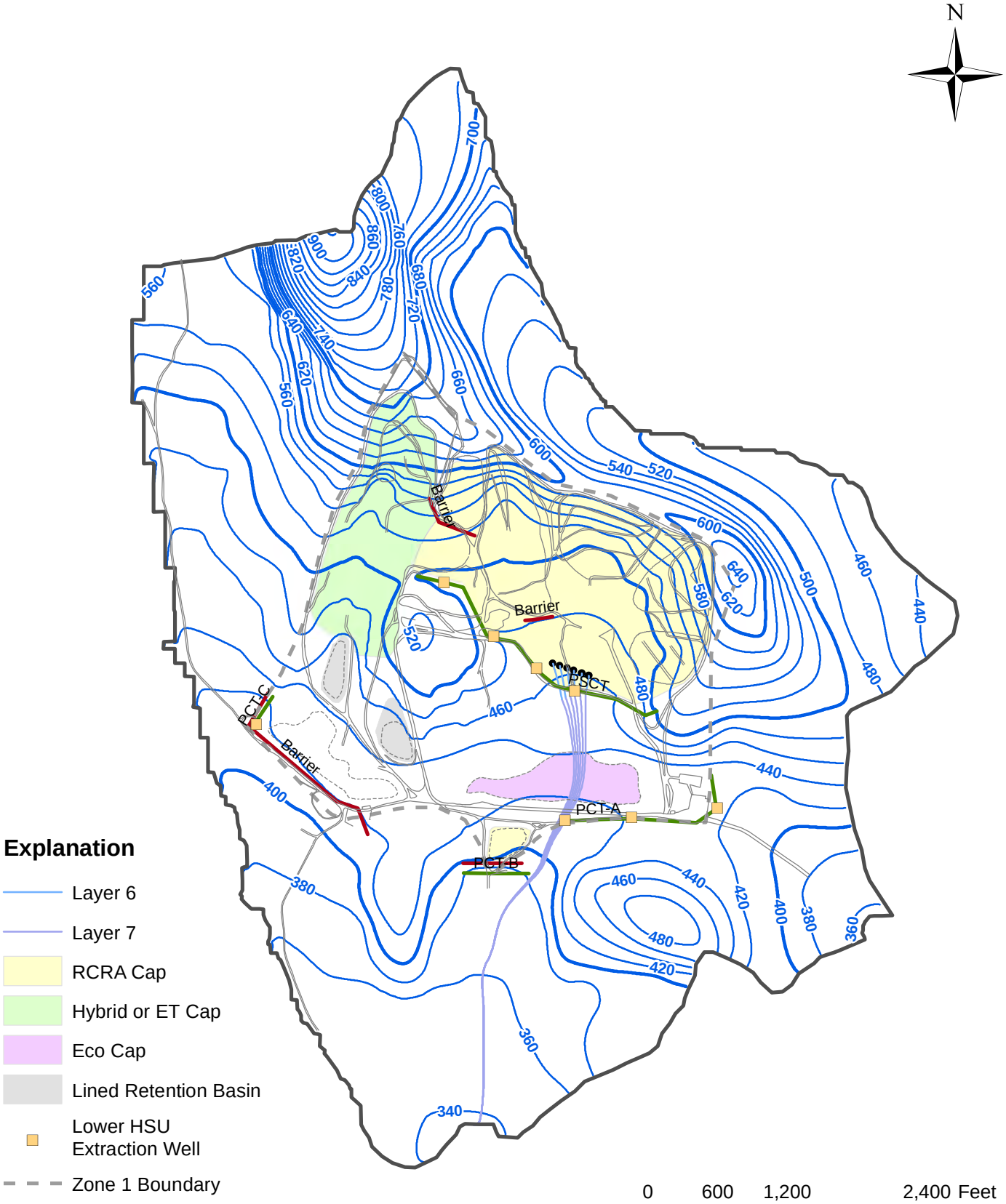

Alternative 4
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-96

FigureD1-96.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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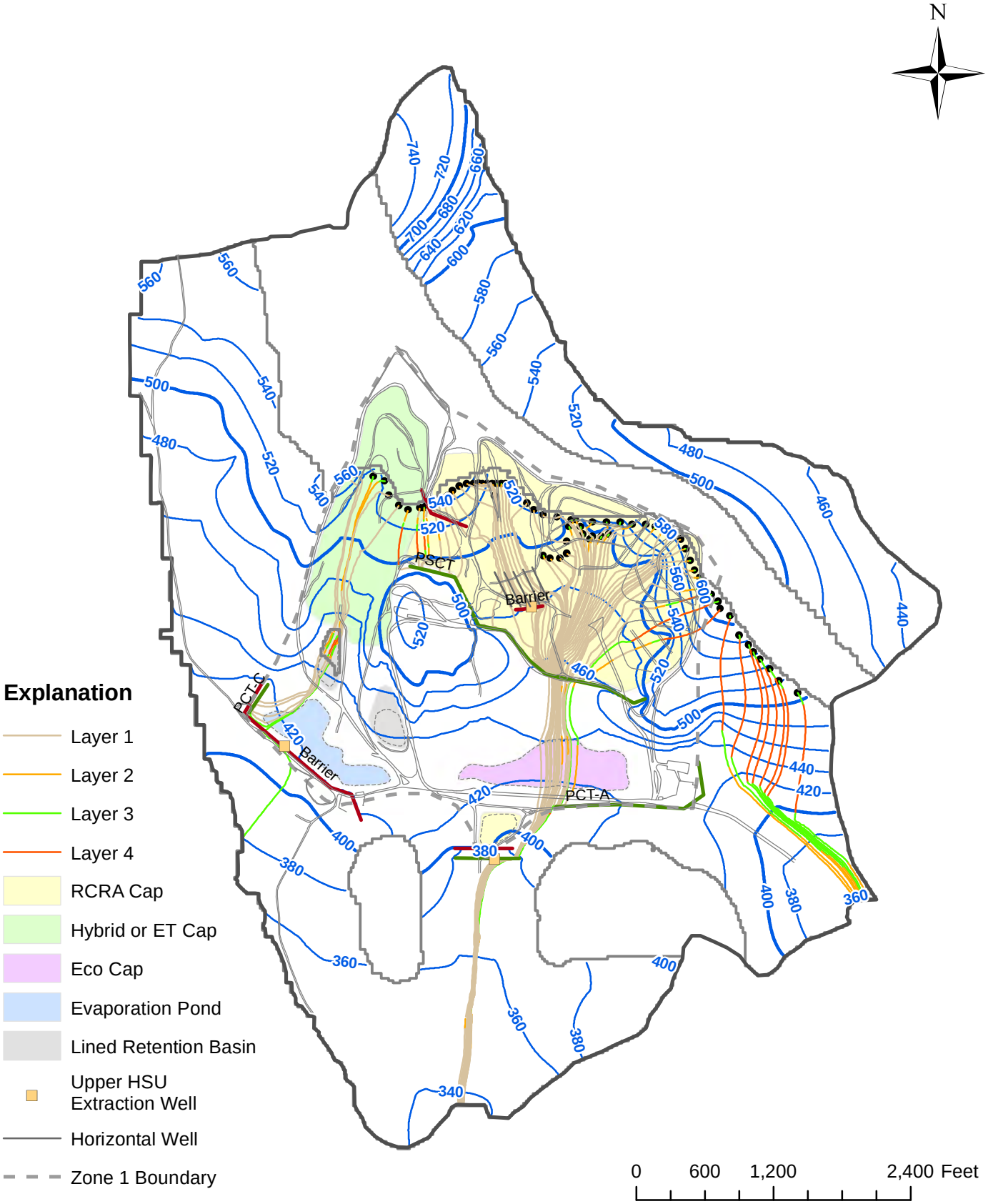

FigureD1-97.mxd

Alternative 5
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-97

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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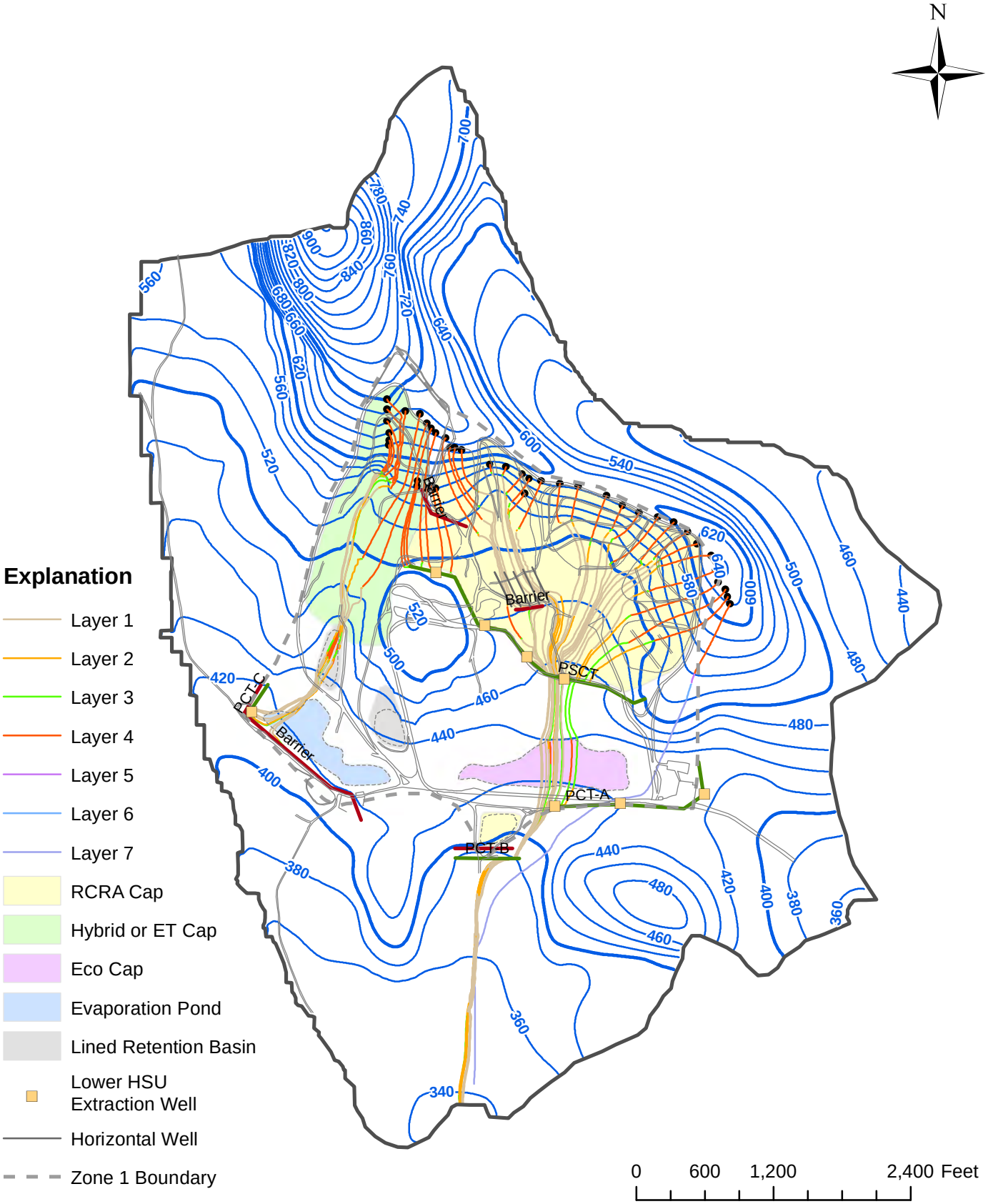
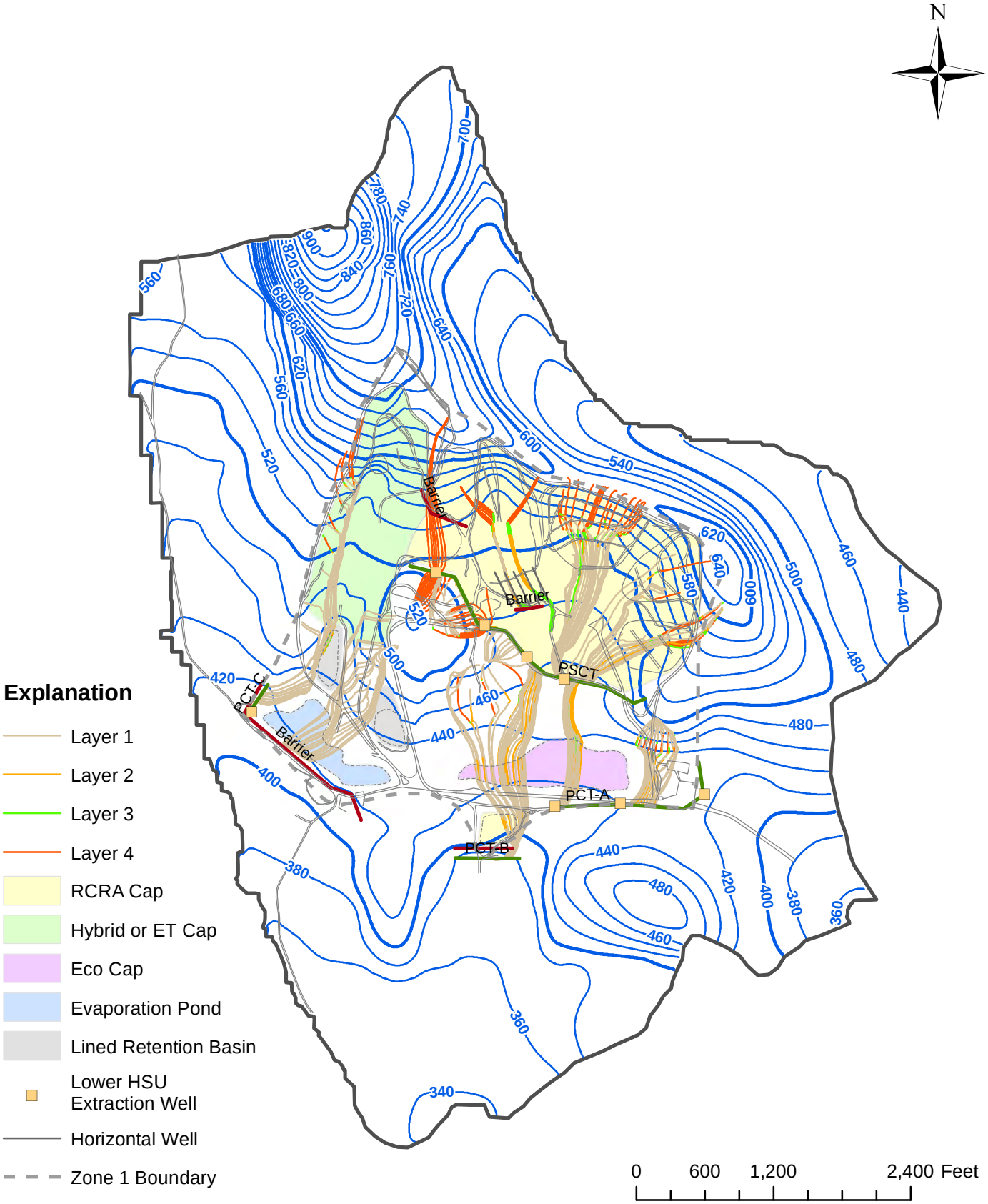


FigureD1-98.mxd

Alternative 5
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-98

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

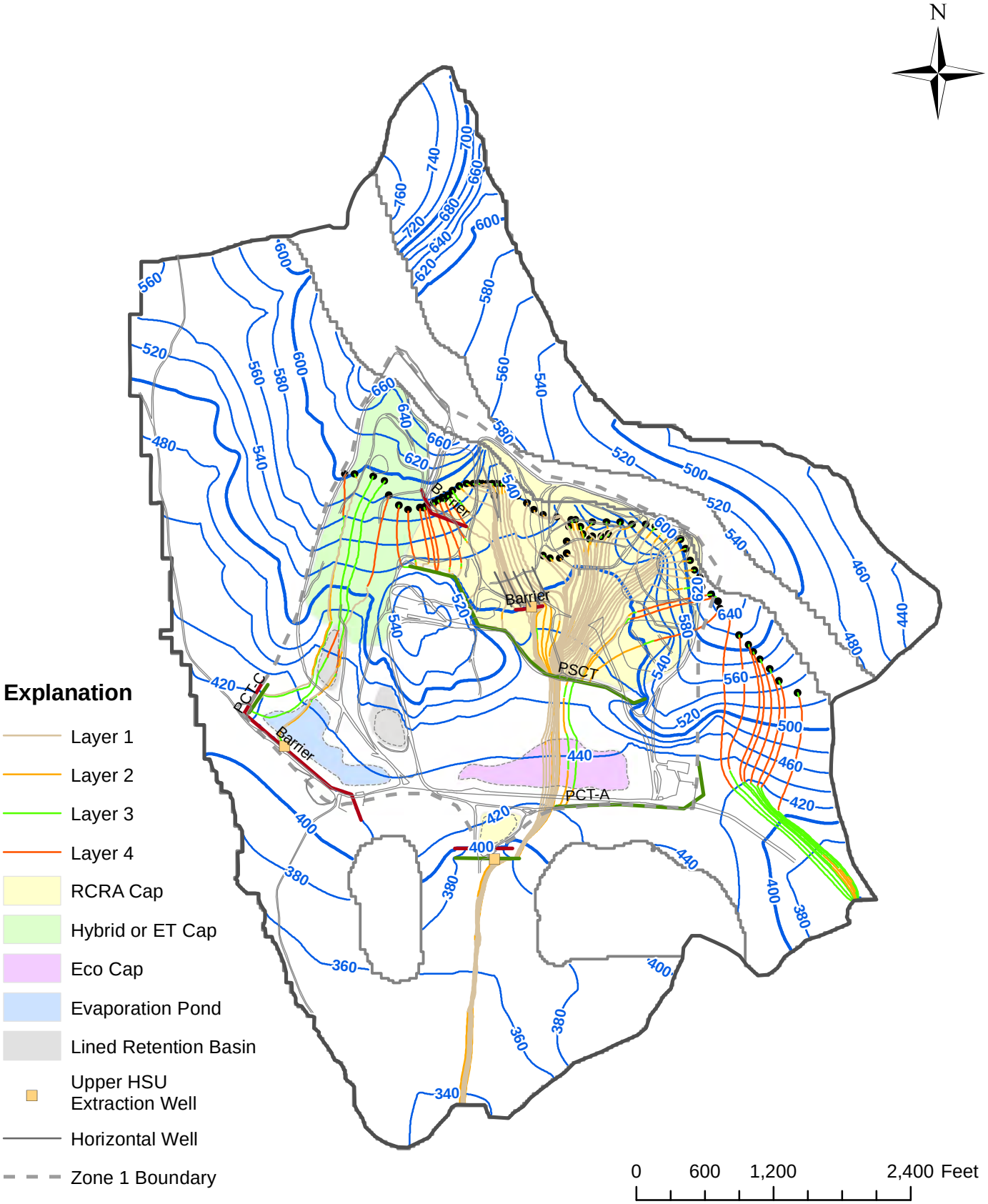


FigureD1-99.mxd

Alternative 5
Simulated Reverse Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-99

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

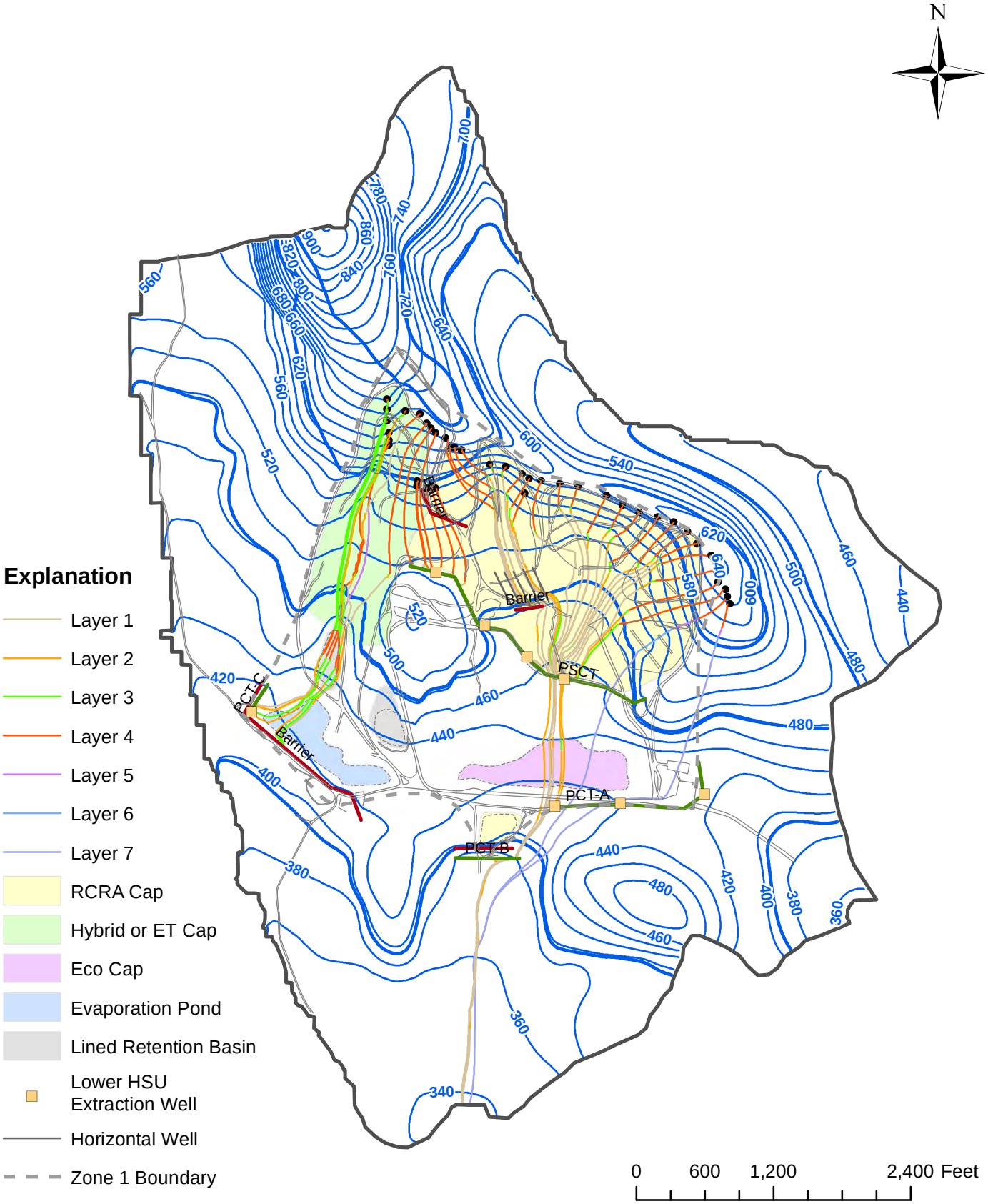


FigureD1-100.mxd

Alternative 5
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-100

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

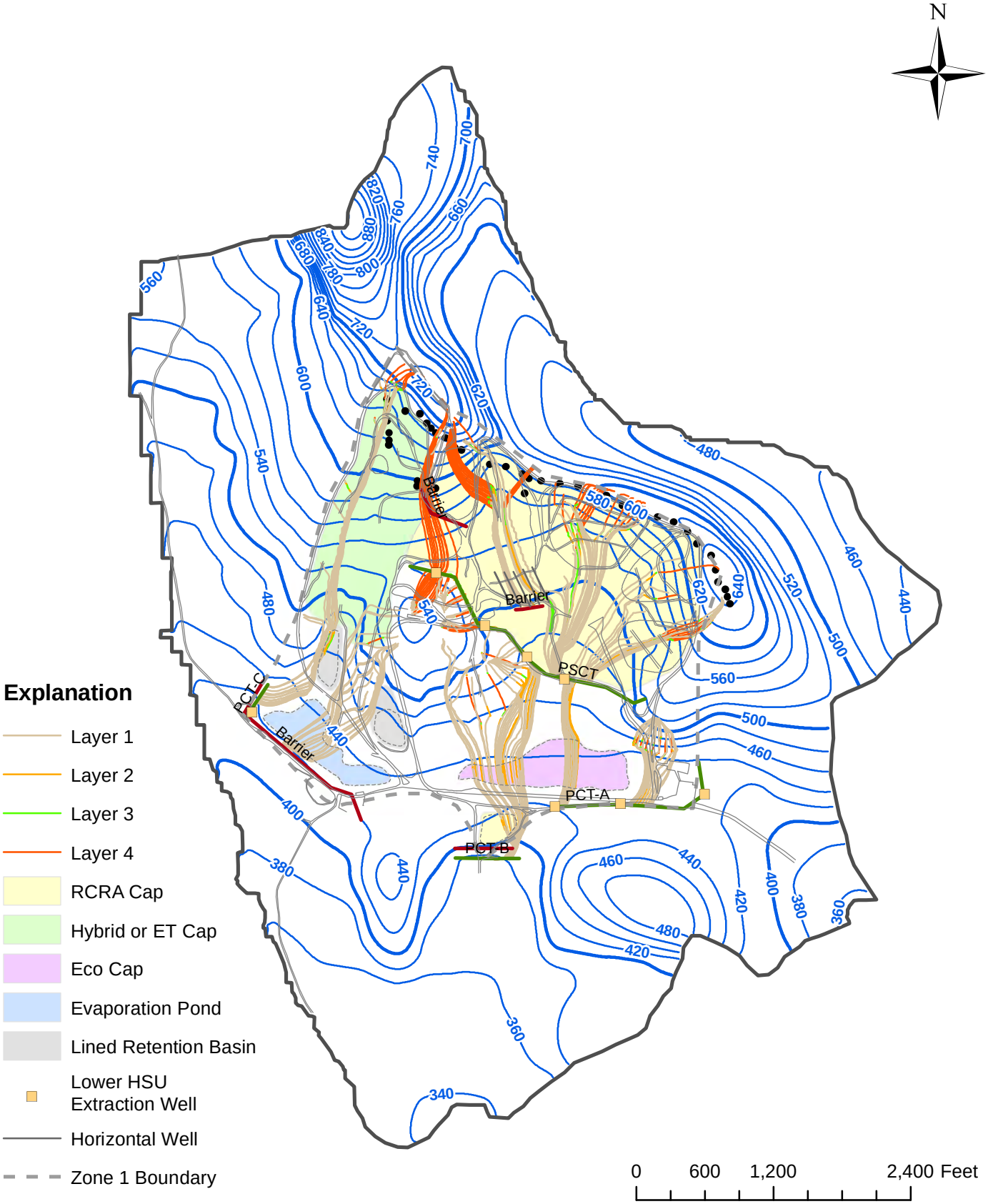


FigureD1-101.mxd

Alternative 5
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-101

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

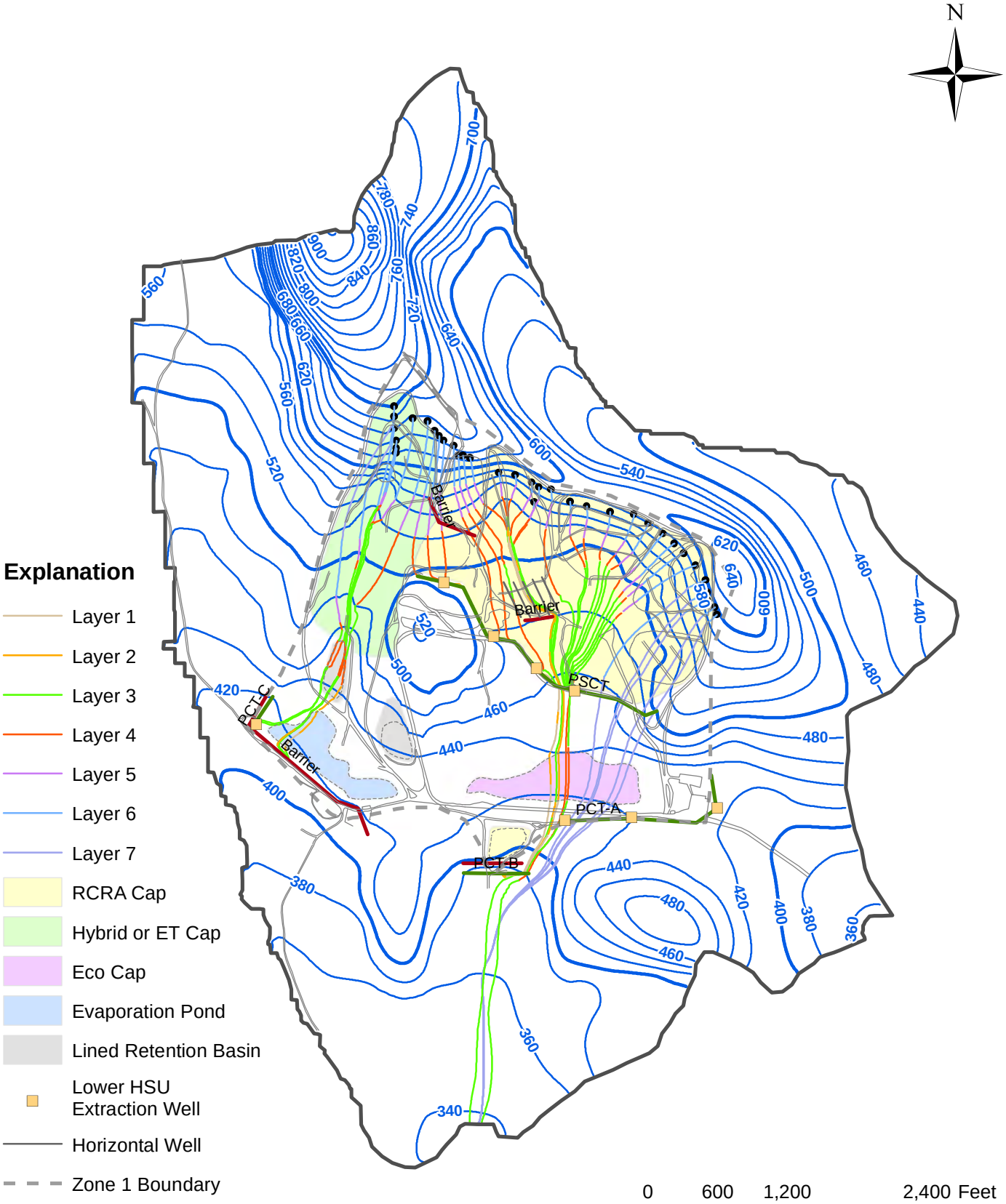


FigureD1-102.mxd

Alternative 5
Simulated Reverse Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-102

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Alternative 5
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-103

FigureD1-103.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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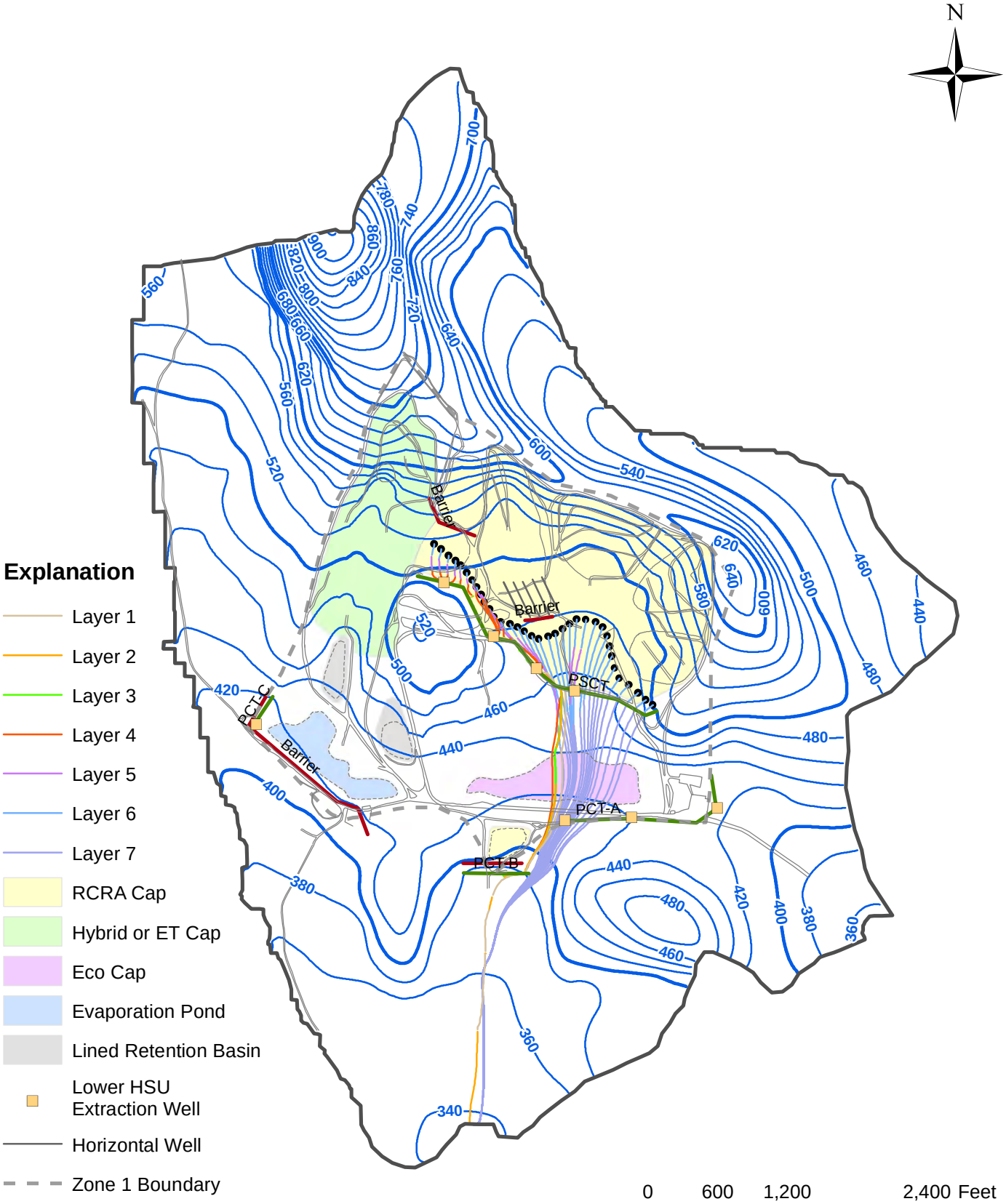

Alternative 5
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-104

FigureD1-104.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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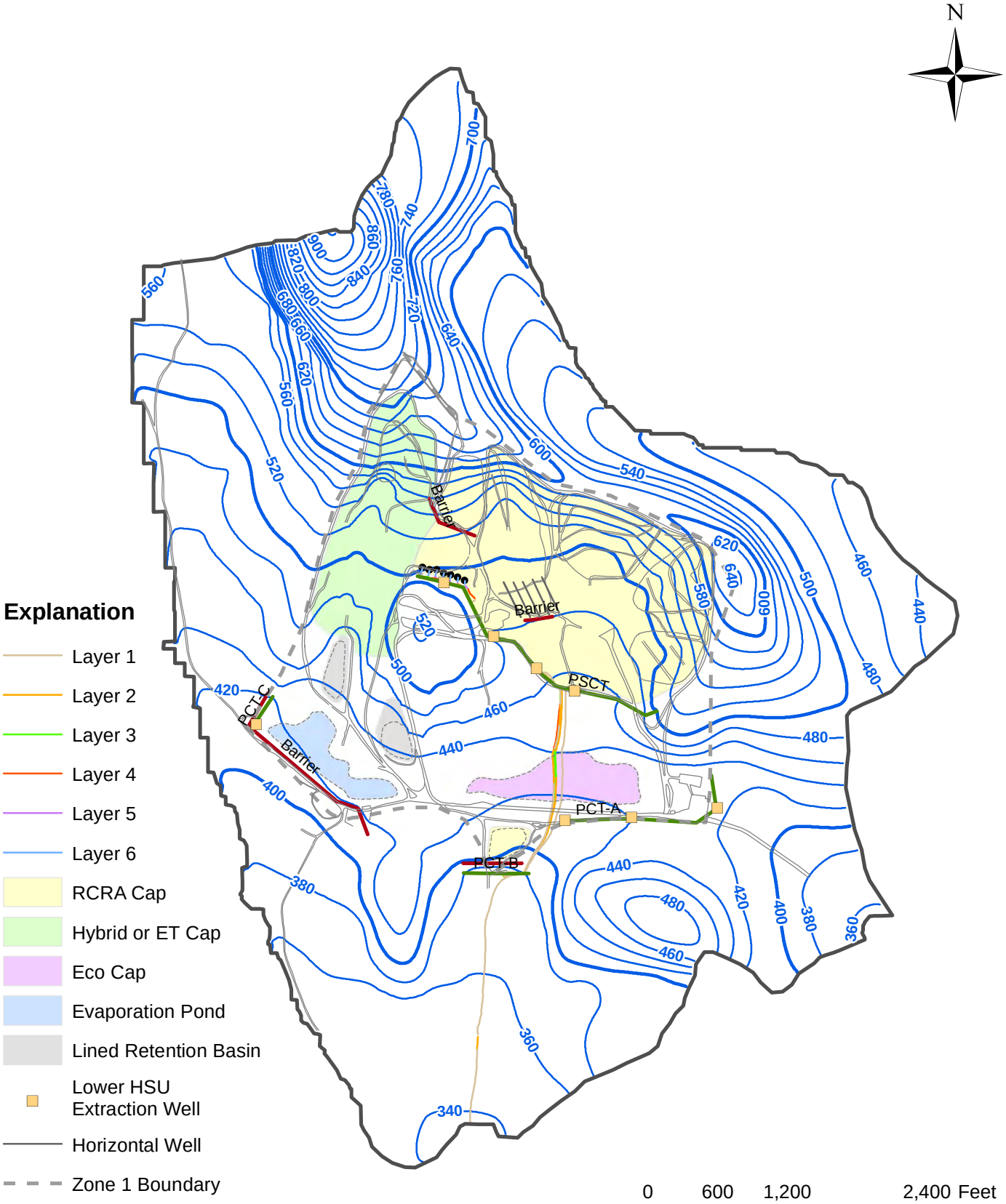

Alternative 5
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and and PSCT-4
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-105

FigureD1-105.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
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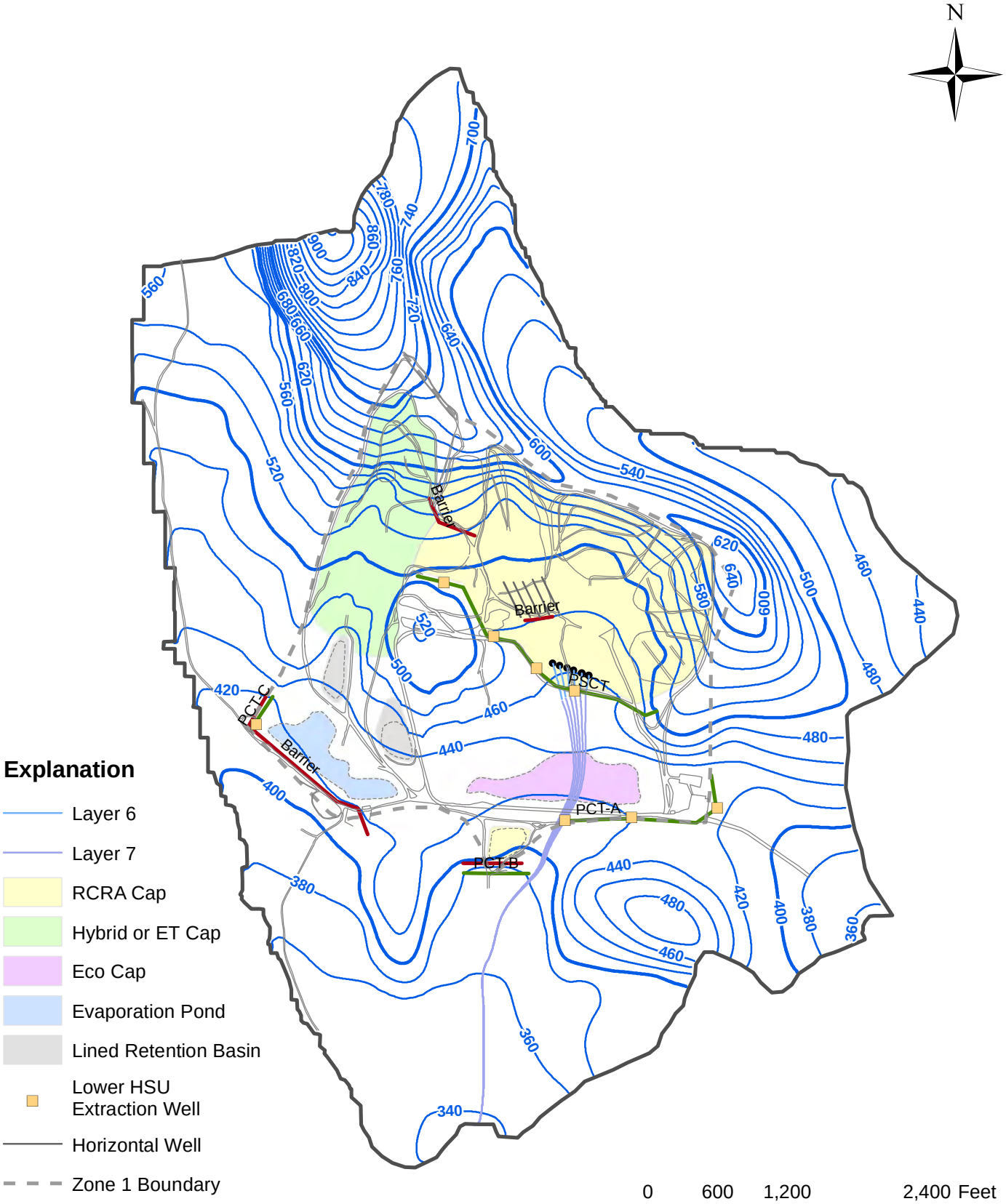


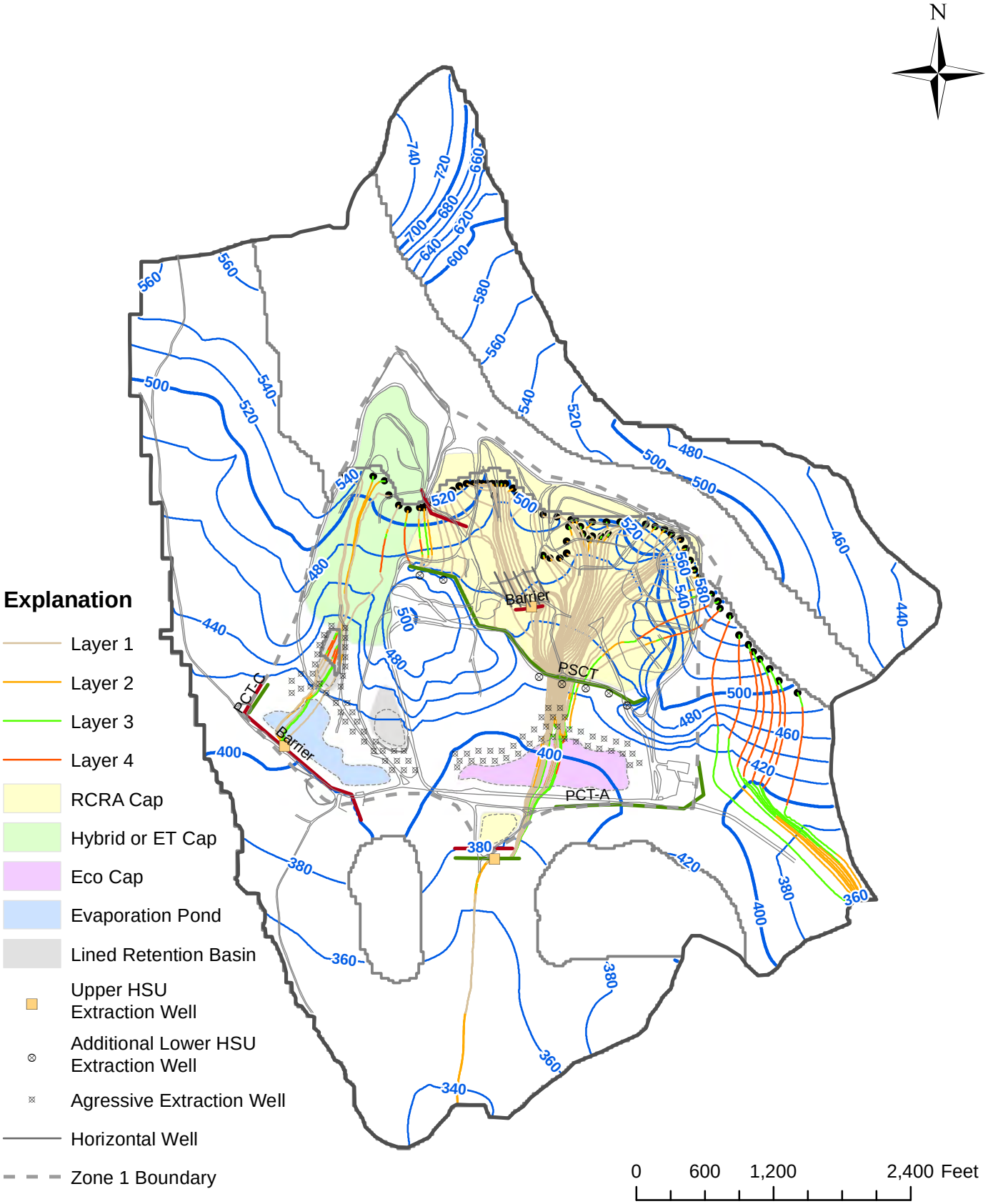
Alternative 5
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-106

FigureD1-106.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

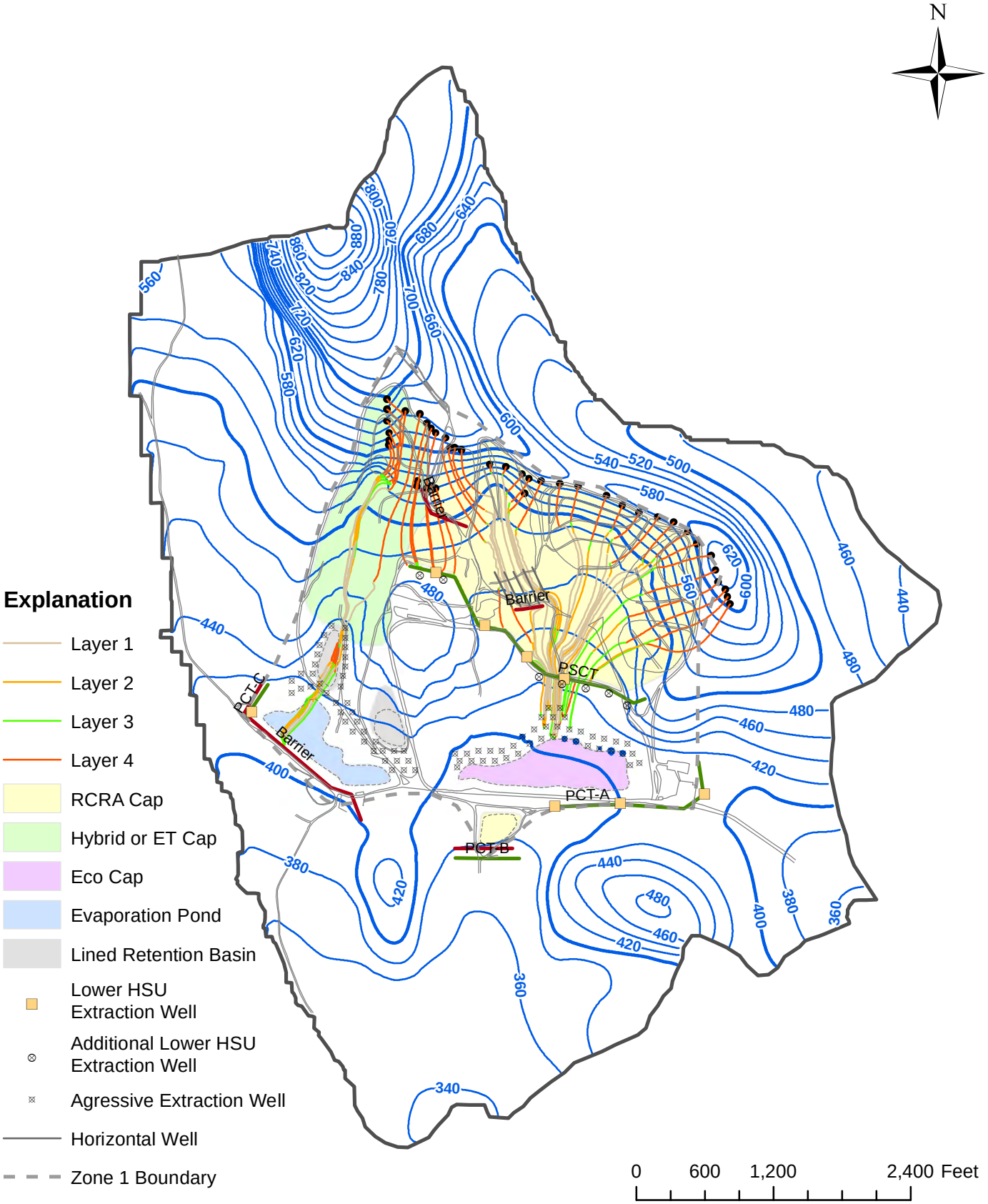


FigureD1-107.mxd

Alternative 6
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-107

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

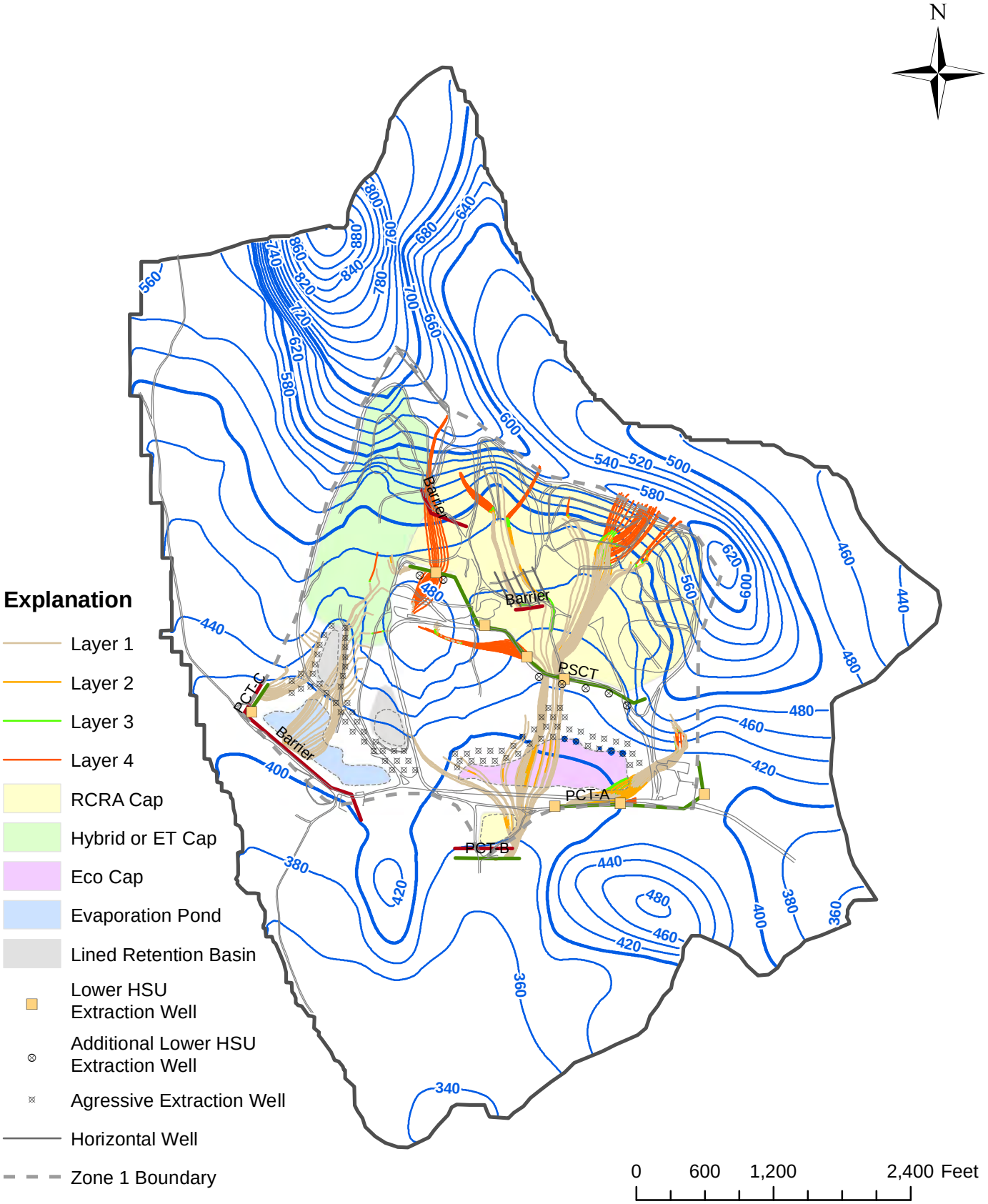


FigureD1-108.mxd

Alternative 6
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-108

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

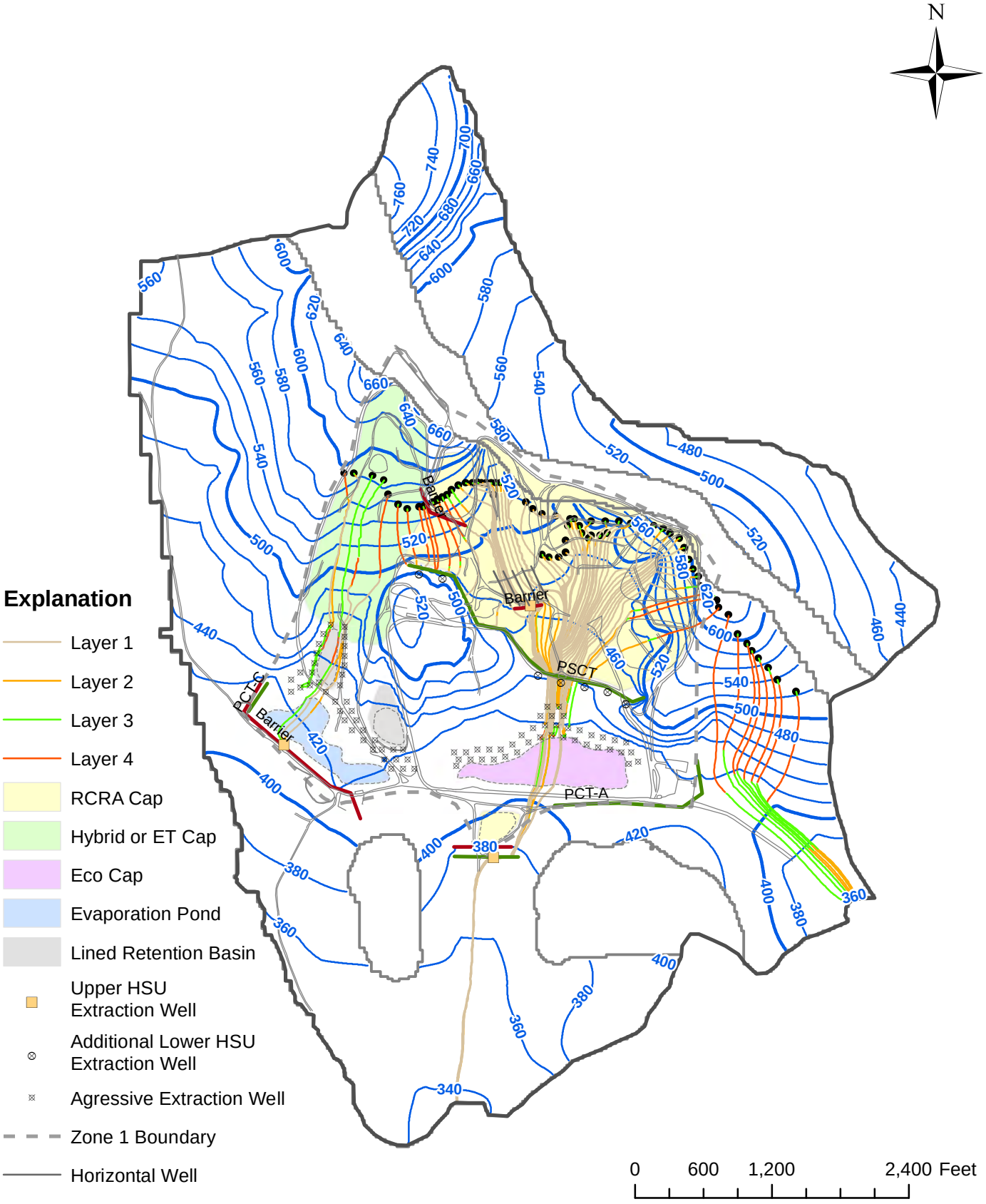


FigureD1-109.mxd

Alternative 6
Simulated Reverse Flow Paths
Feasibility Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-109

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

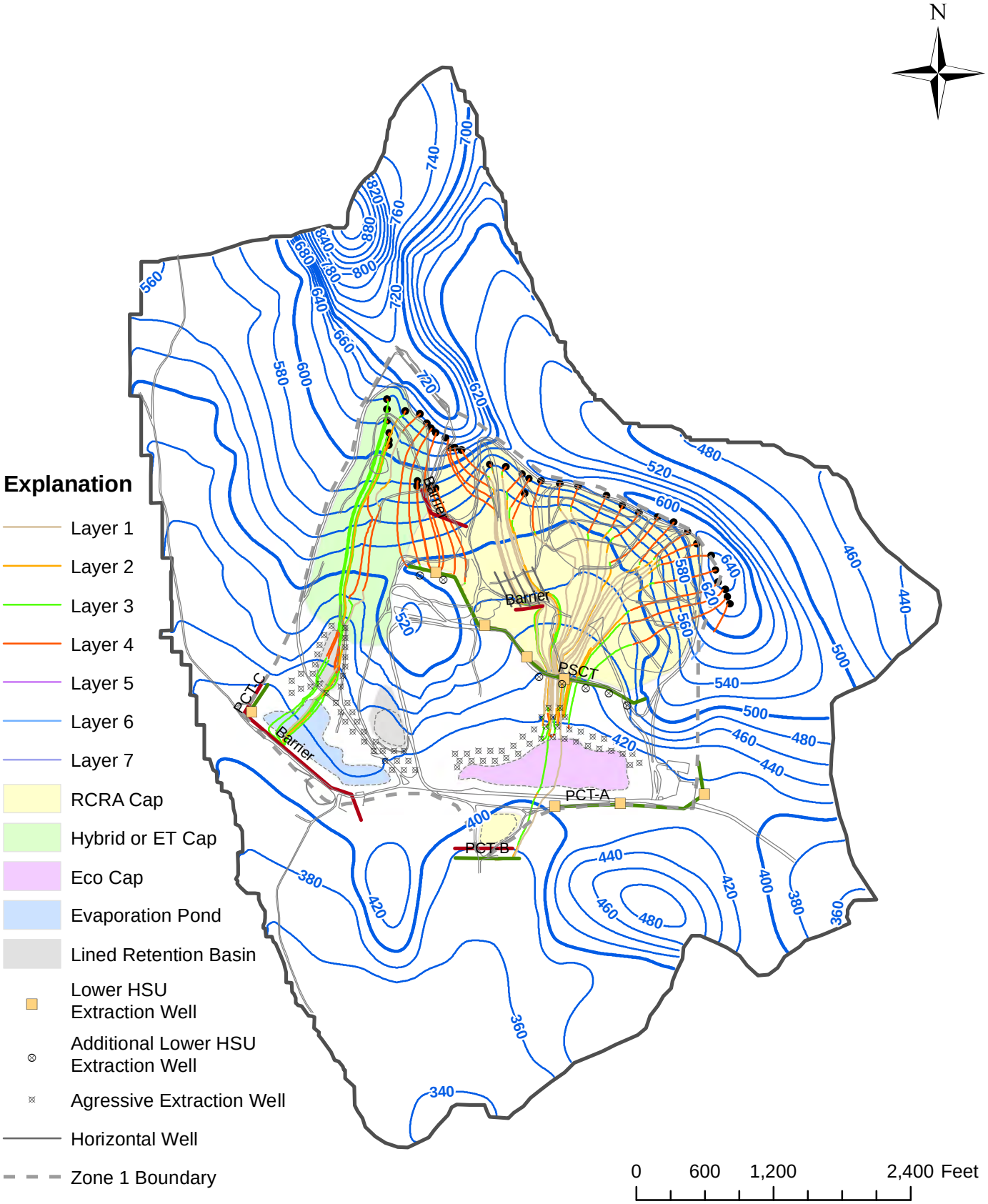


Alternative 6
Simulated Upper HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-110

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

FigureD1-110.mxd

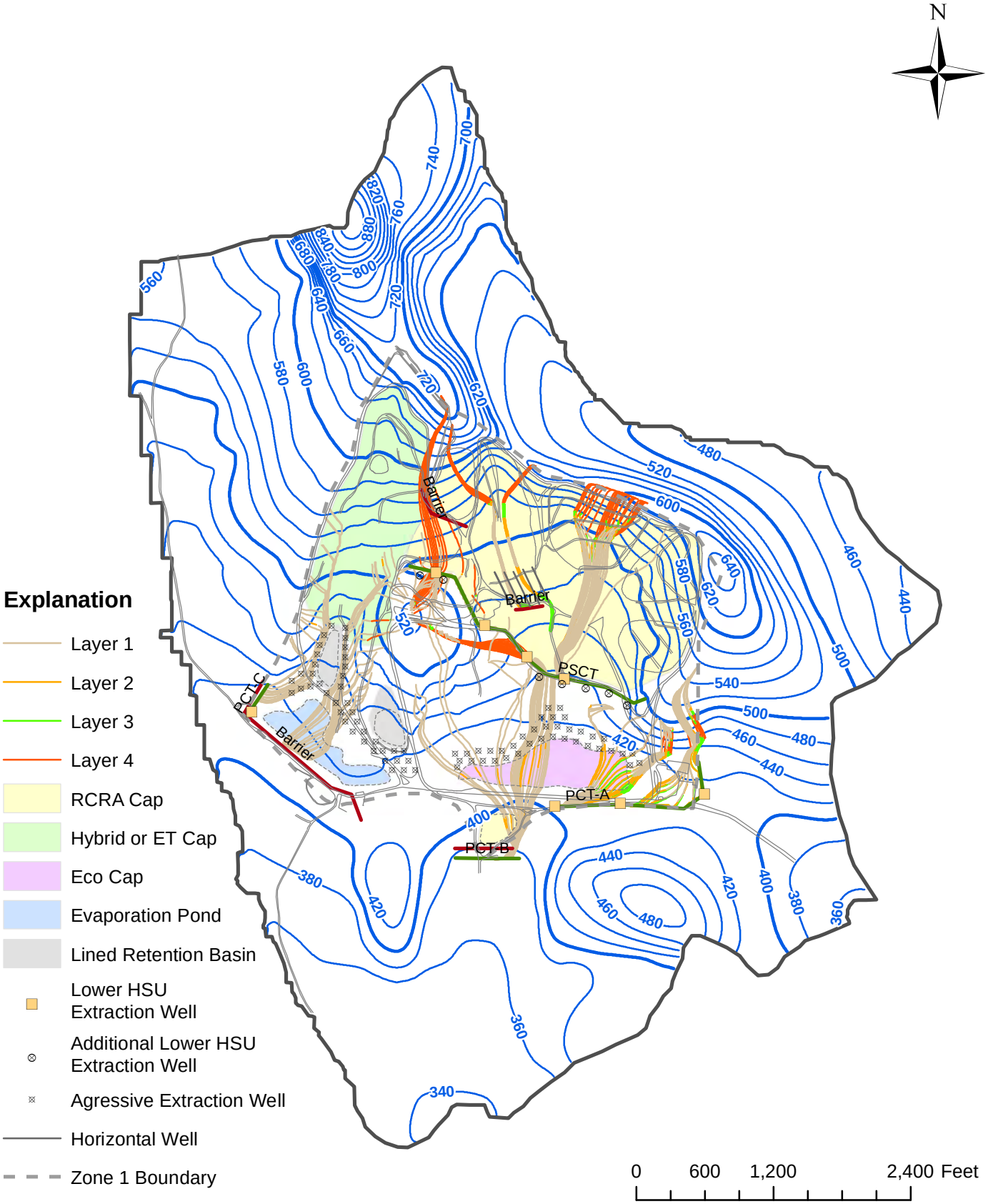


FigureD1-111.mxd

Alternative 6
Simulated Lower HSU Forward Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-111

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

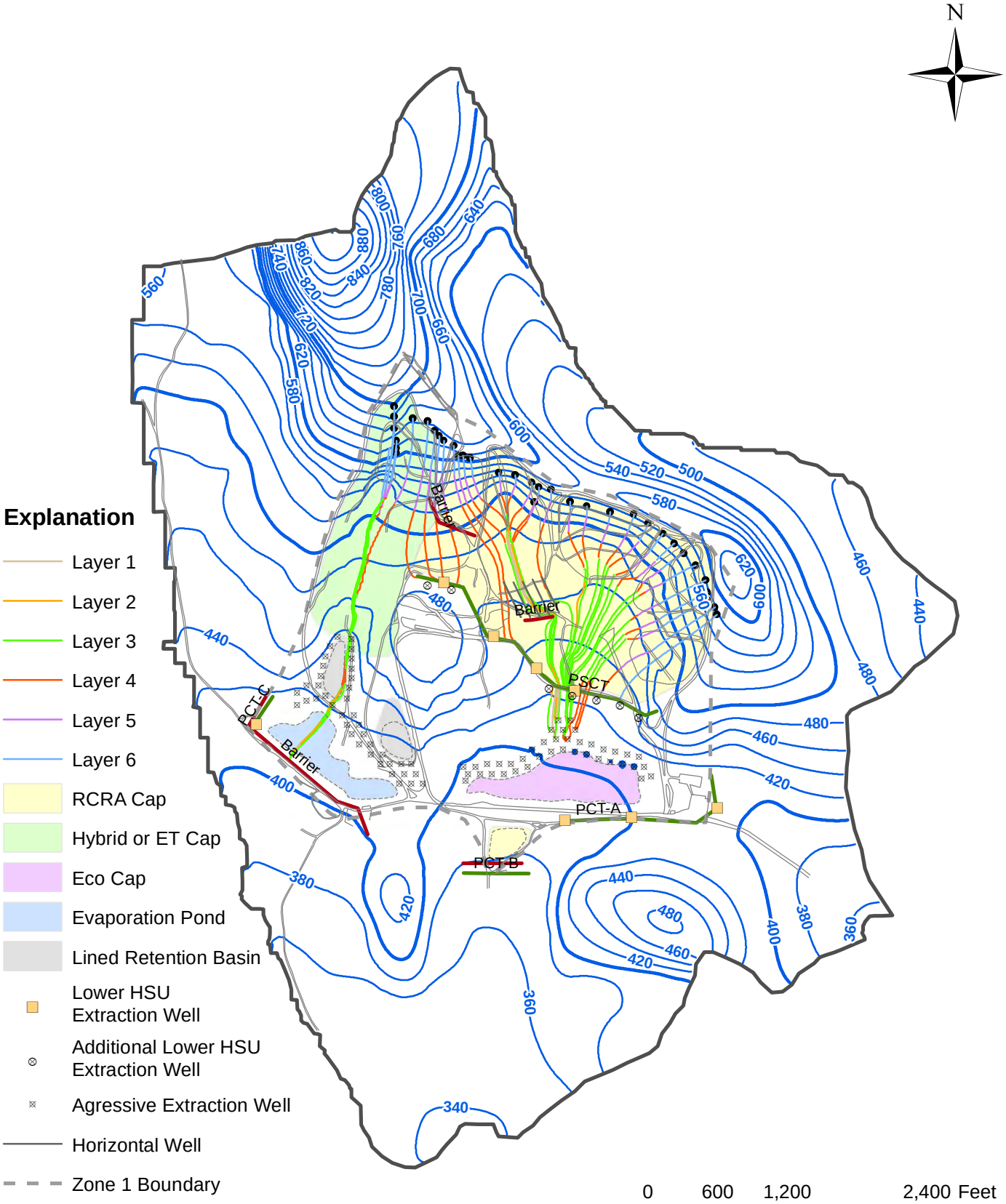


FigureD1-112.mxd

Alternative 6
Simulated Reverse Flow Paths
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-112

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



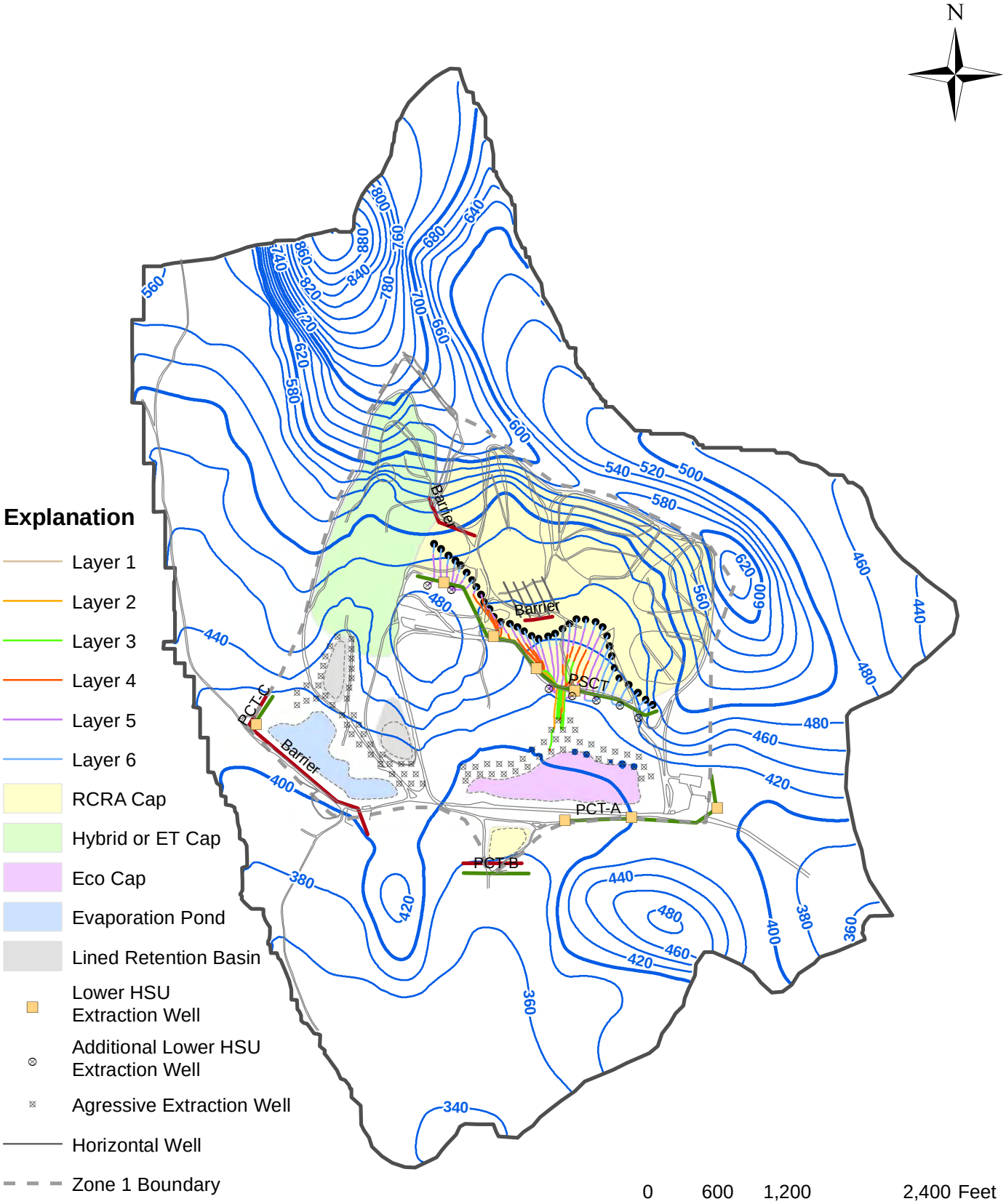
Alternative 6
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Along North Ridge
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-113

FigureD1-113.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



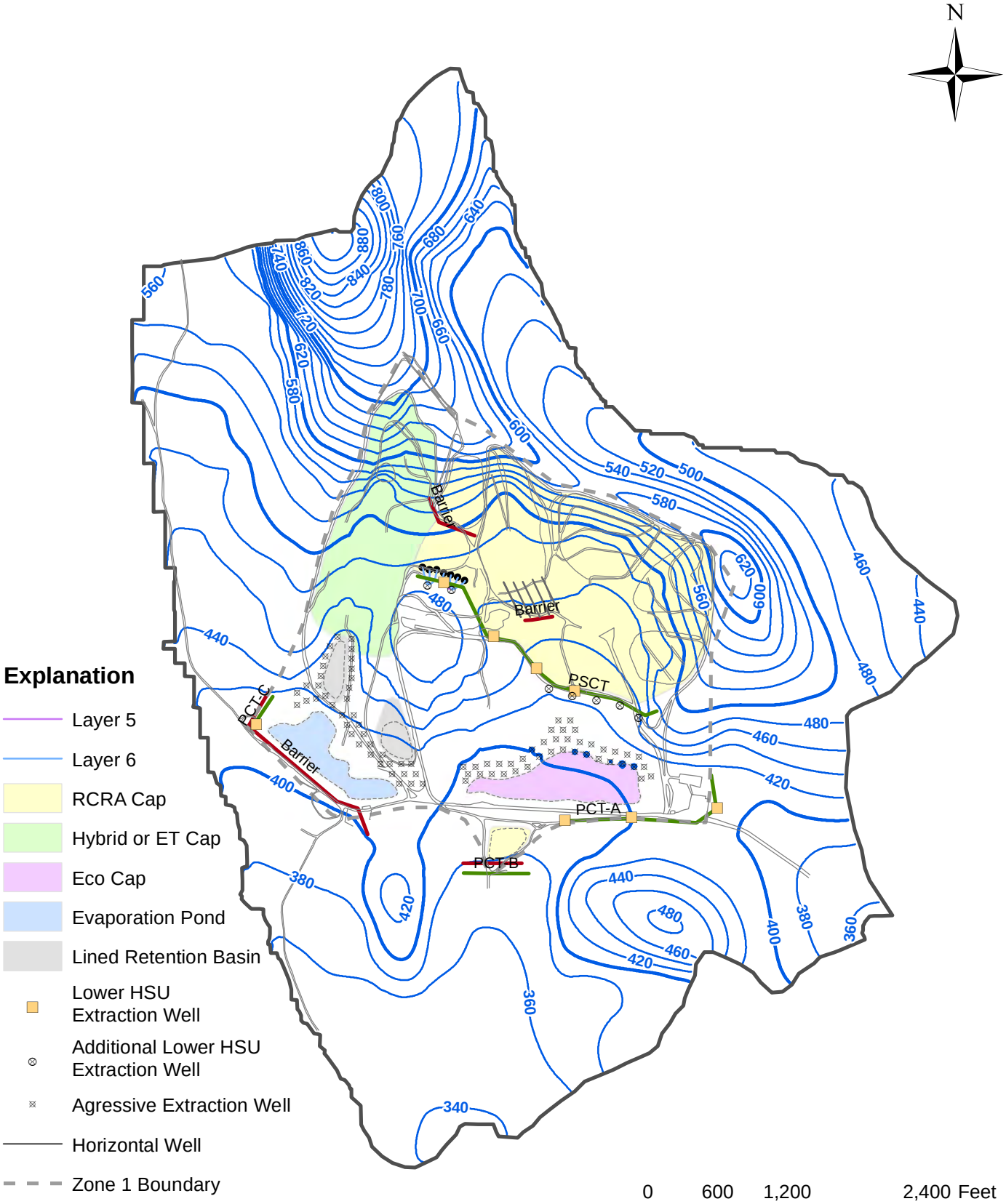
Alternative 6
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between Landfills and PSCT
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-114

FigureD1-114.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



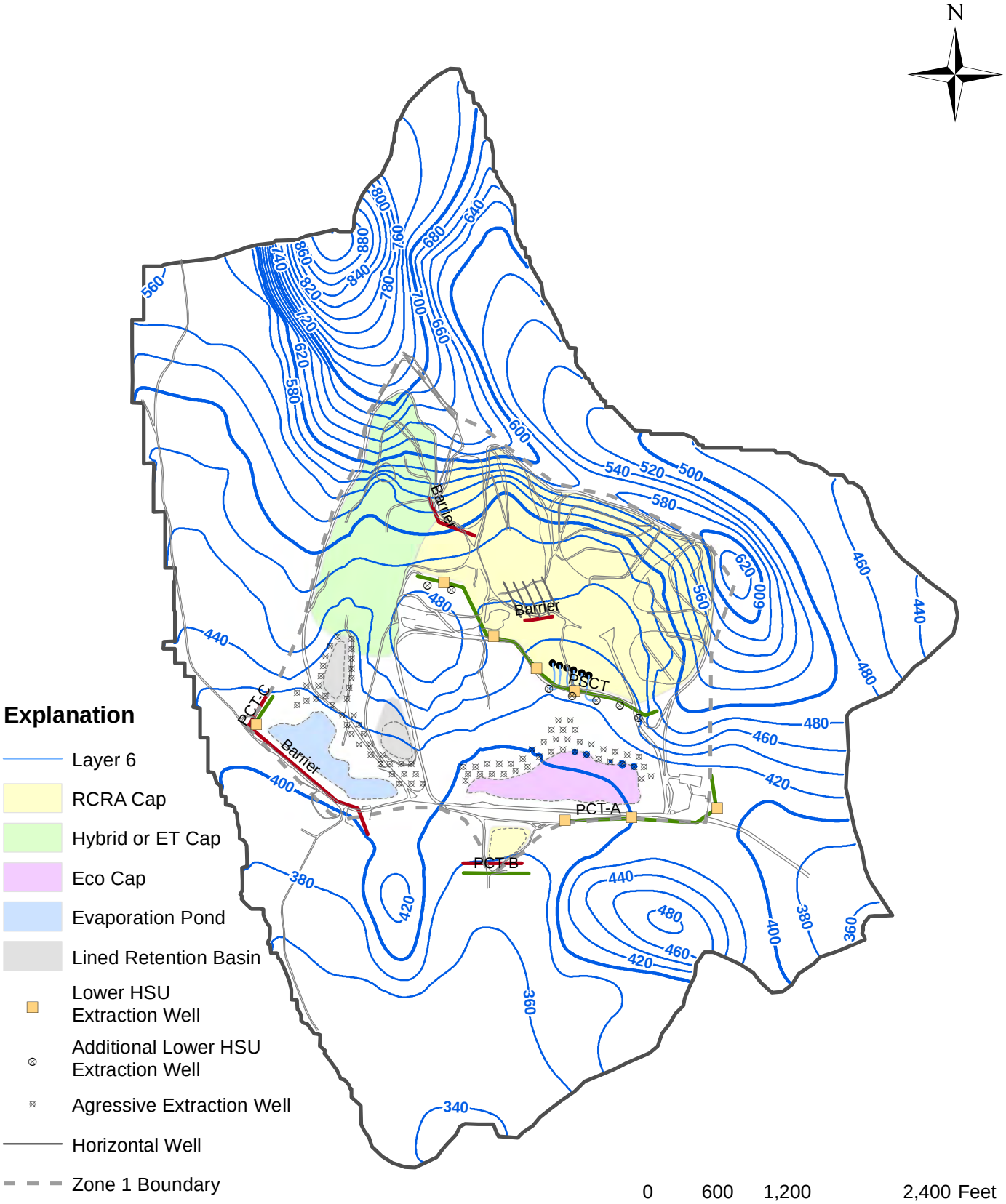
Alternative 6
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Between PCB Landfill and PSCT-4
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-115

FigureD1-115.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



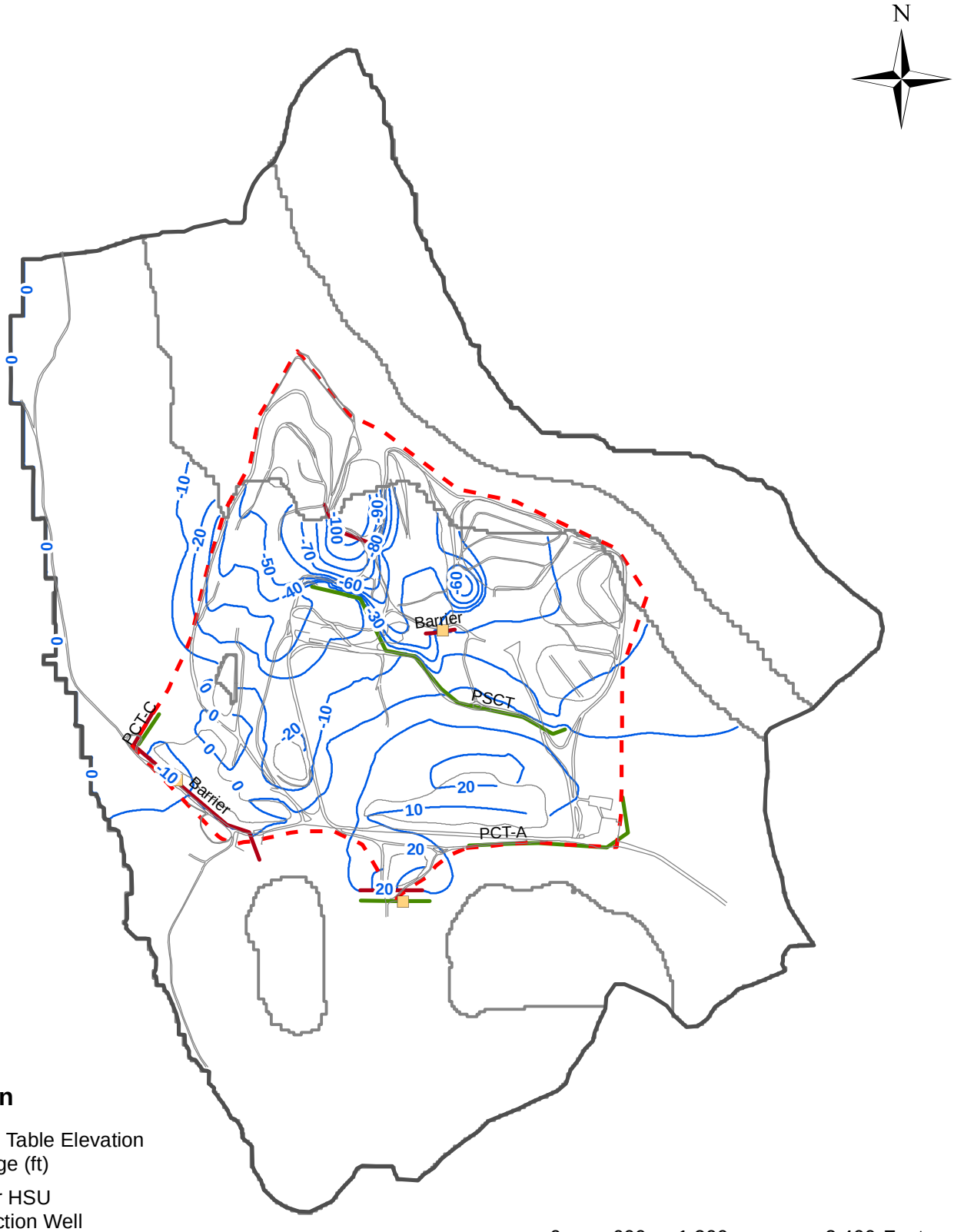
Alternative 6
Simulated Lower HSU Forward Flow Paths
Initial Location of Particles in Layer 6 Near RGPZ-6 and RGPZ-7
Feasibility Study 2004 (Dry Season) Model

Final Feasibility Study
Casmalia Site Remediation
Casmalia, California

FIGURE
D1-116

FigureD1-116.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

Zone 1 Boundary

0 600 1,200 2,400 Feet

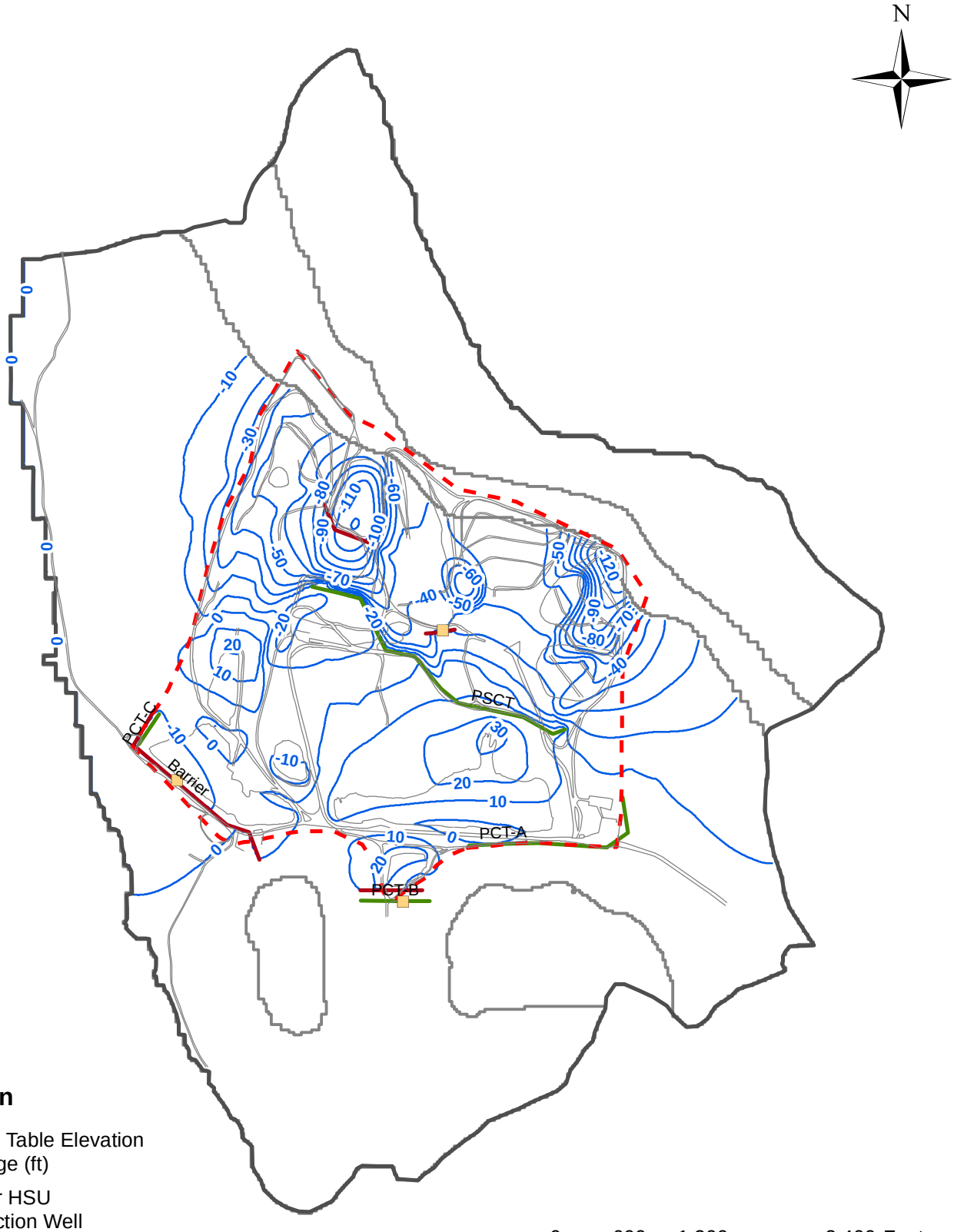
FigureD1-117.mxd

Alternative 2
Simulated Water Table Elevation Change
Feasibillity Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-117

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

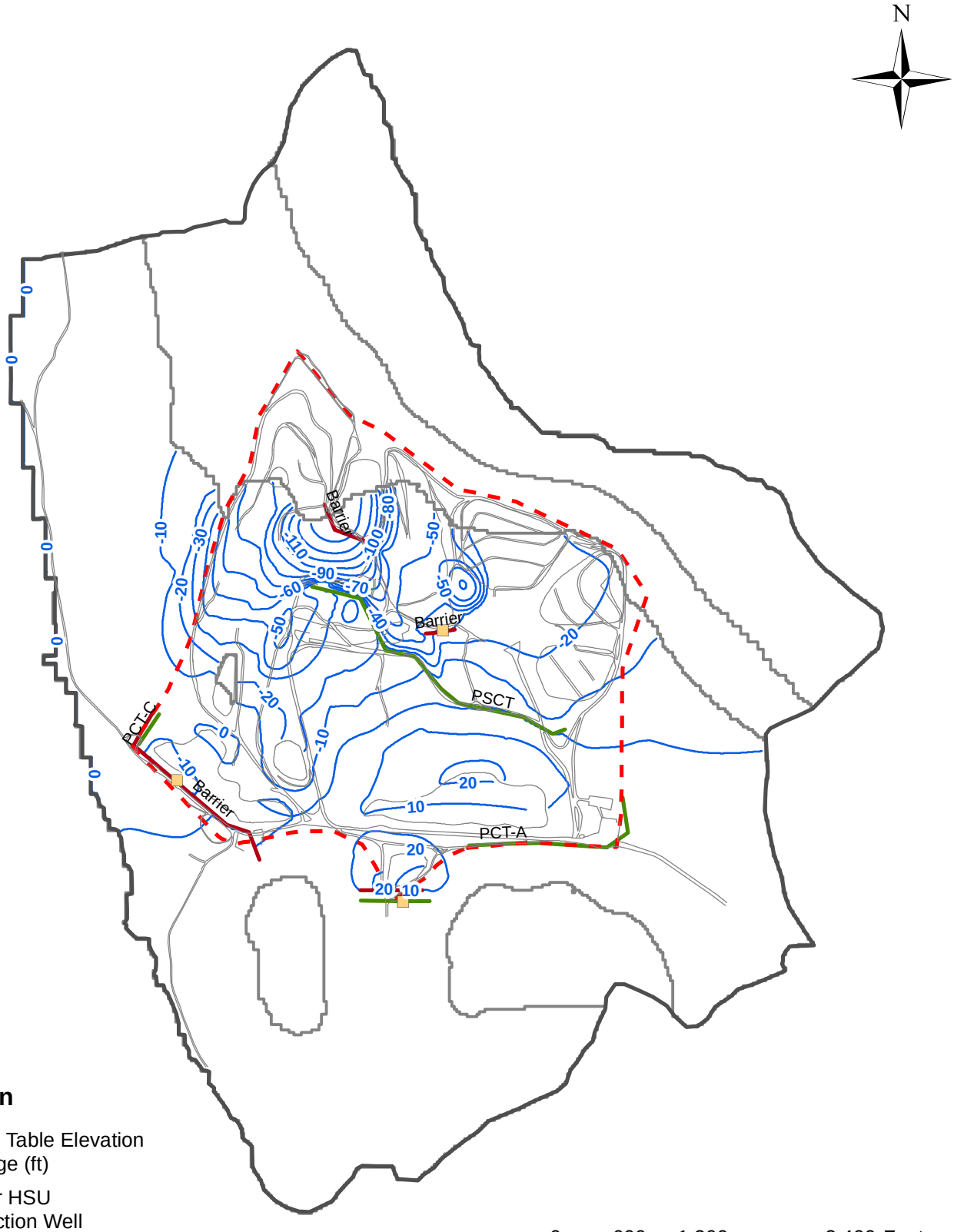
- Water Table Elevation Change (ft)
- Upper HSU Extraction Well
- Zone 1 Boundary

FigureD1-118.mxd

Alternative 2
Simulated Water Table Elevation Change
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-118

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

Zone 1 Boundary

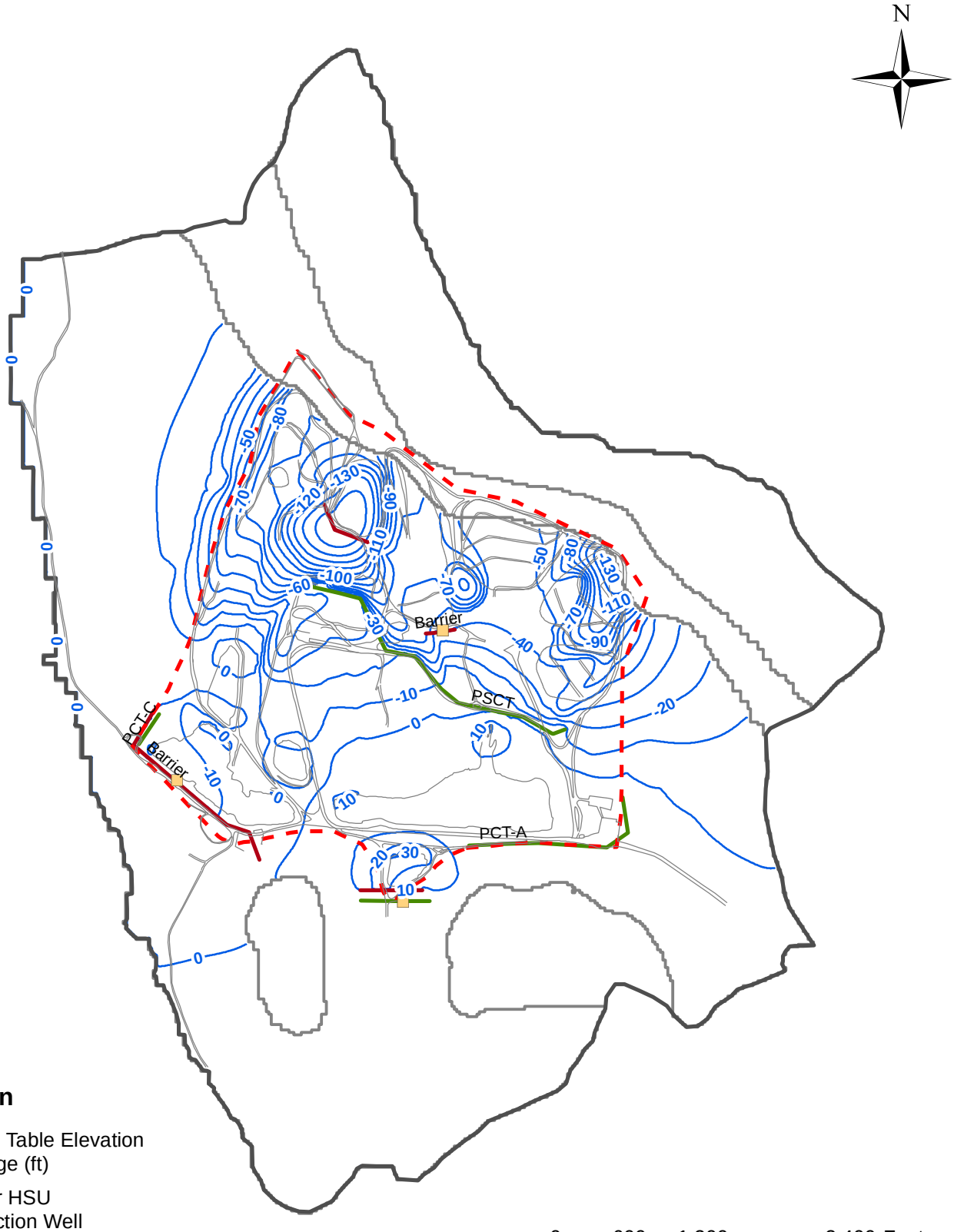
0 600 1,200 2,400 Feet

FigureD1-119.mxd

Alternative 3
Simulated Water Table Elevation Change
Feasibillity Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-119

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

- Water Table Elevation Change (ft)
- Upper HSU Extraction Well
- Zone 1 Boundary

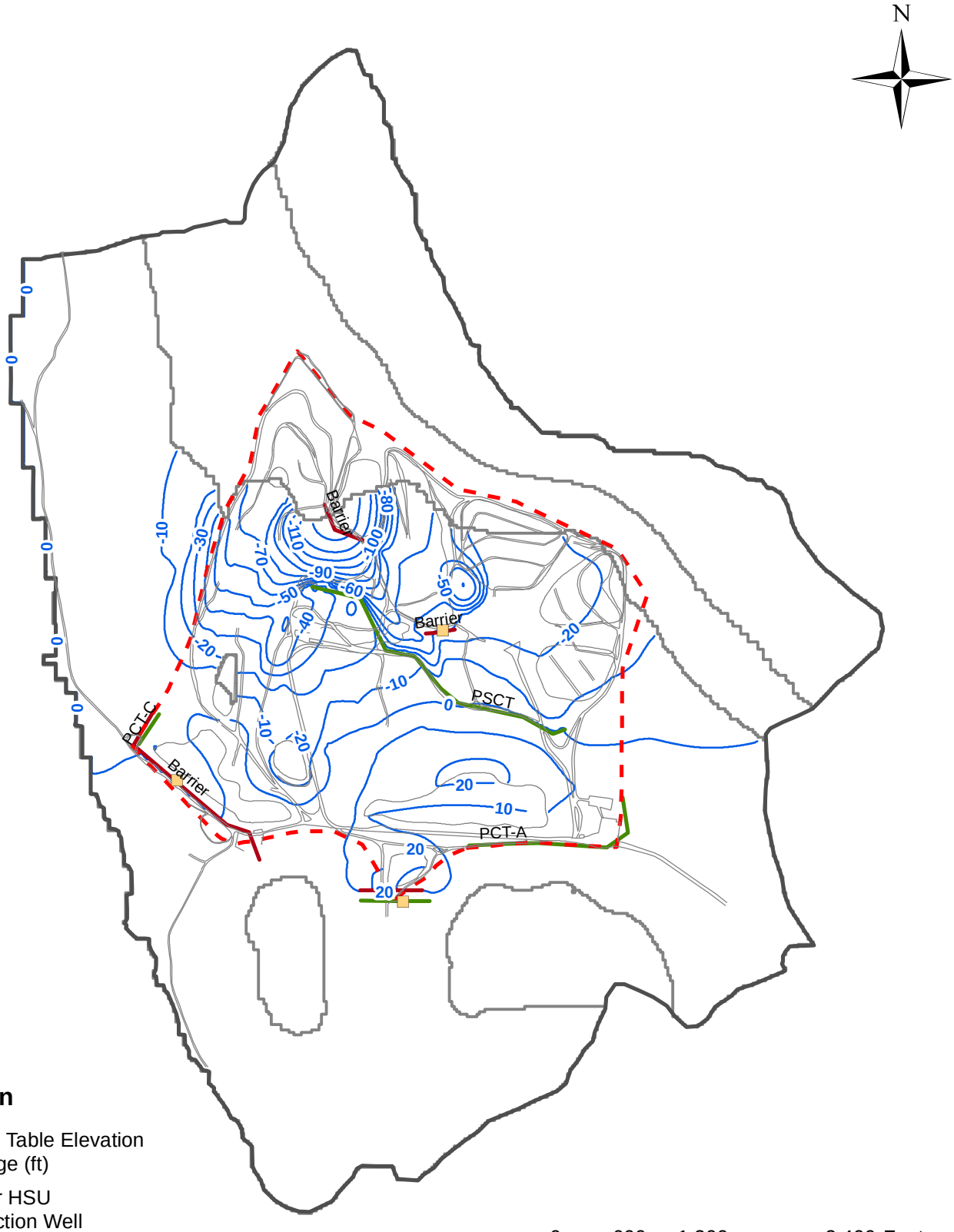
0 600 1,200 2,400 Feet

FigureD1-120.mxd

Alternative 3
Simulated Water Table Elevation Change
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-120

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

Zone 1 Boundary

0 600 1,200 2,400 Feet

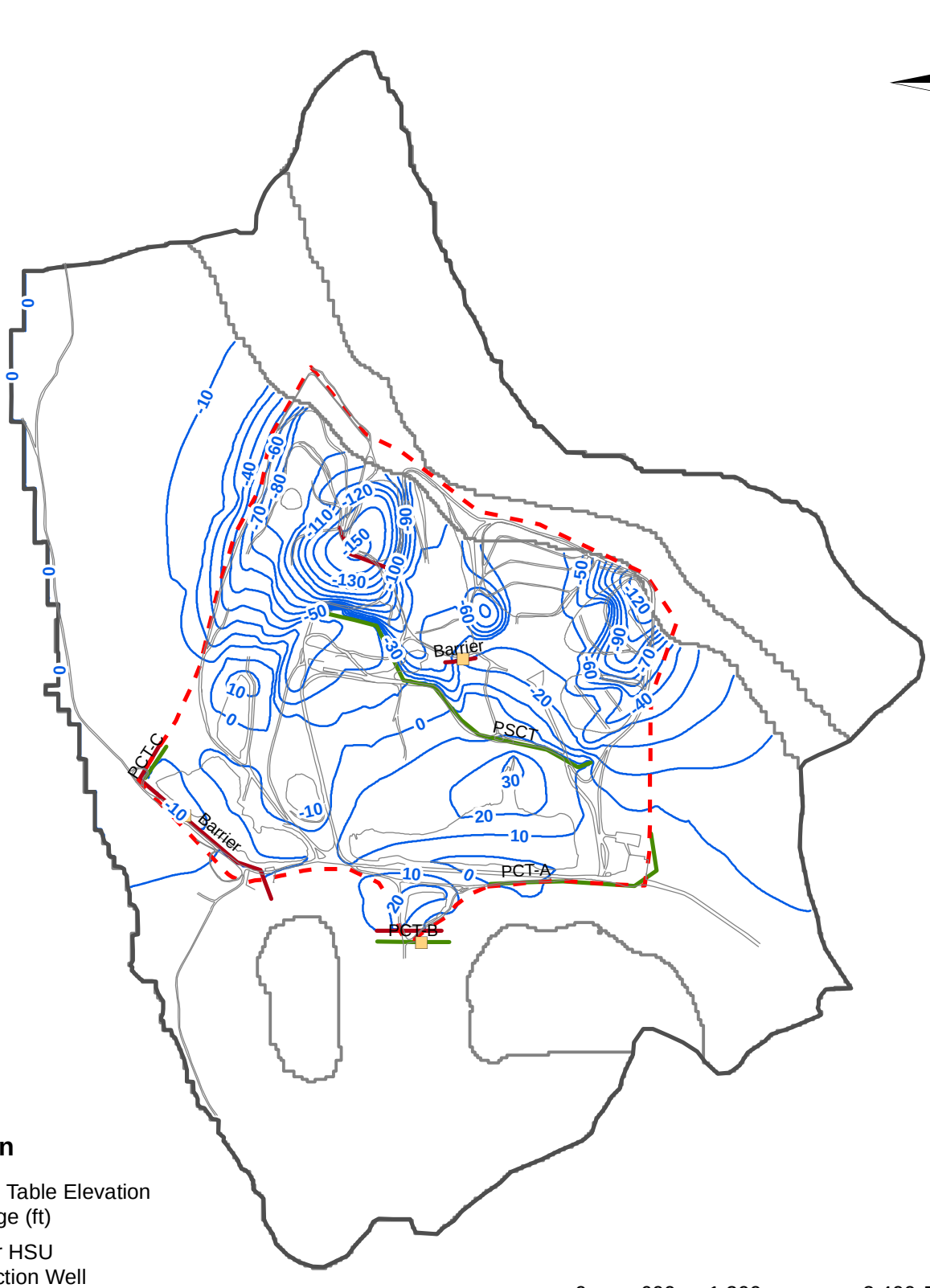
FigureD1-121.mxd

Alternative 4
Simulated Water Table Elevation Change
Feasibillity Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-121

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

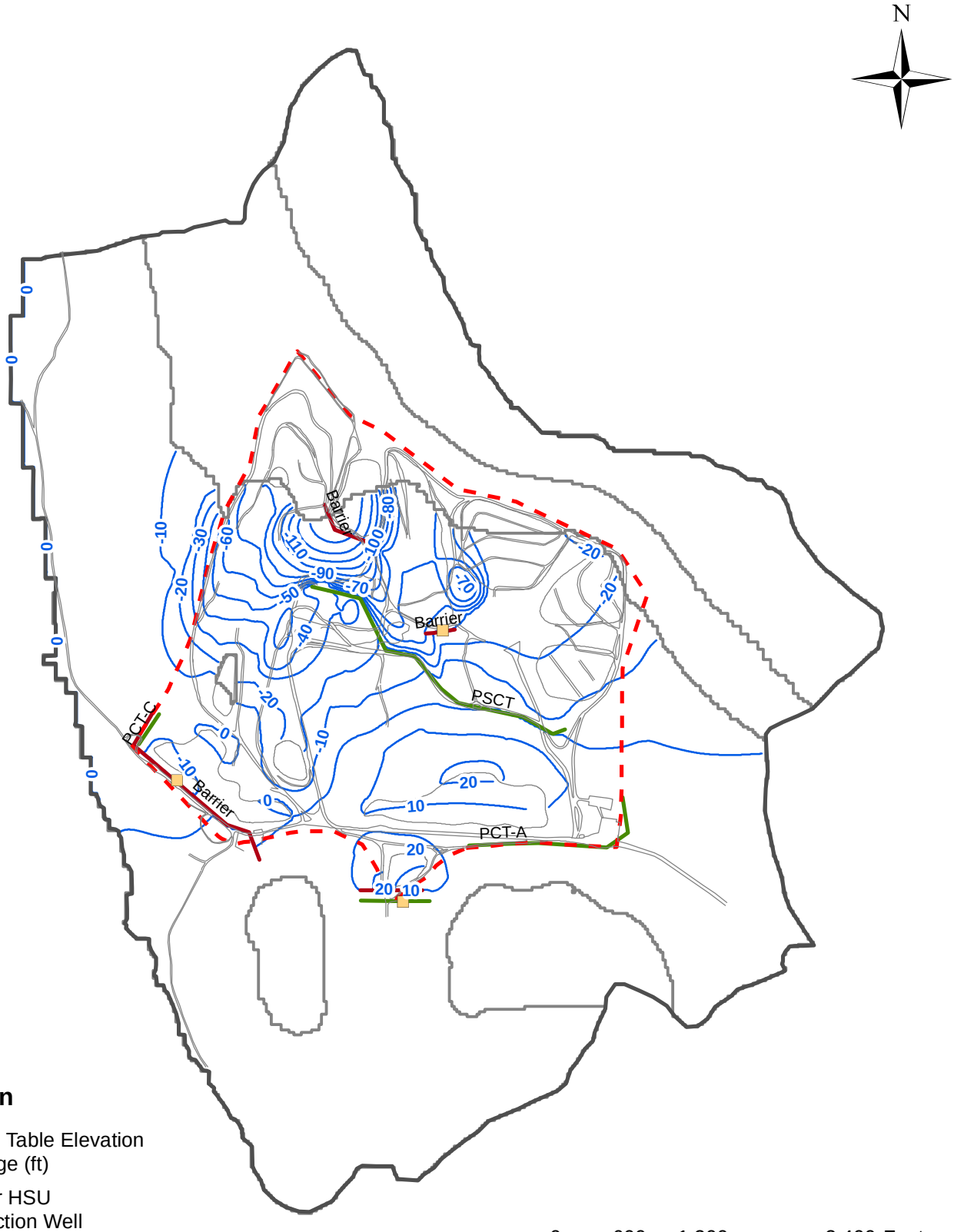
Zone 1 Boundary

Alternative 4
Simulated Water Table Elevation Change
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-122

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	

FigureD1-122.mxd



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

Zone 1 Boundary

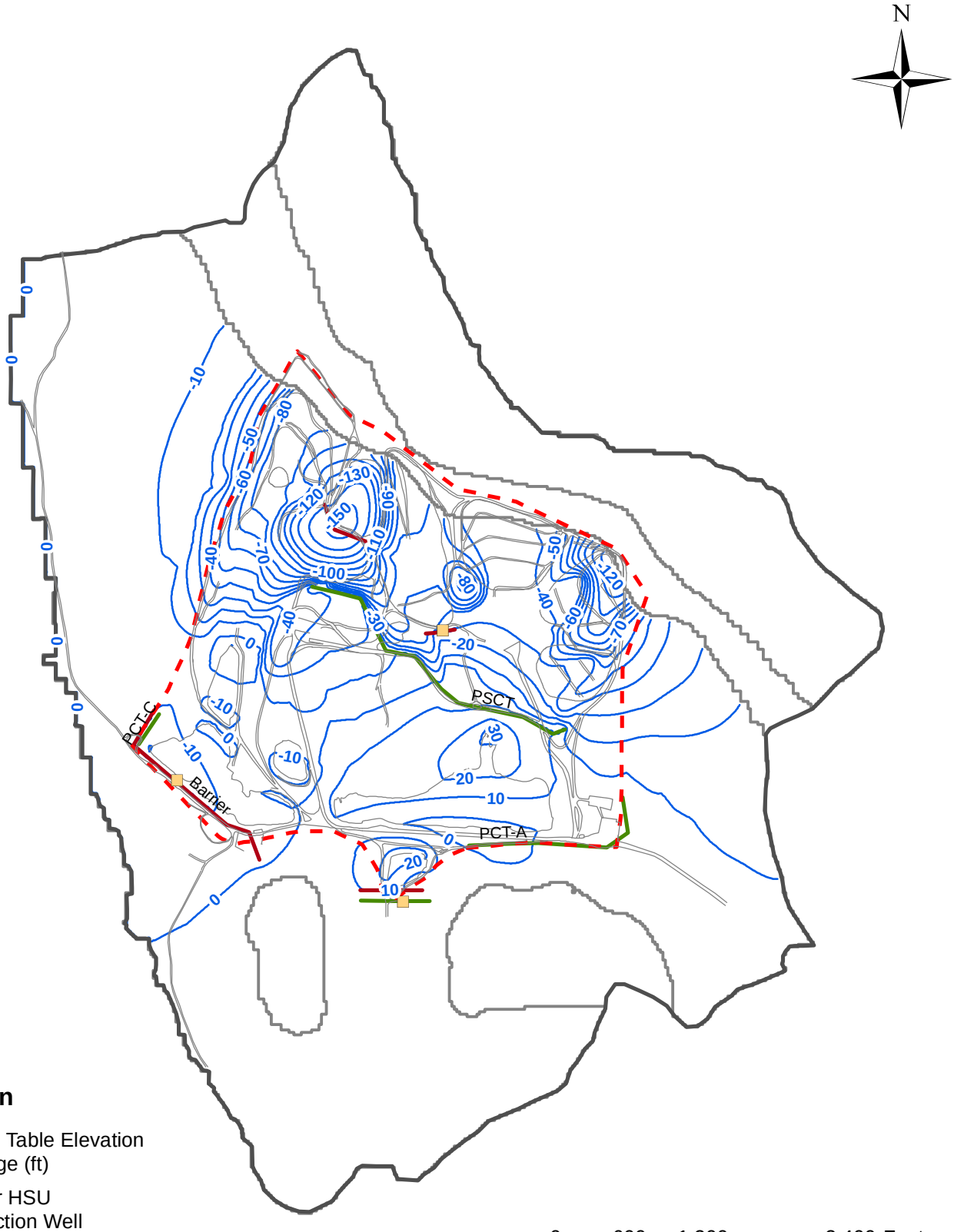
0 600 1,200 2,400 Feet

FigureD1-123.mxd

Alternative 5
Simulated Water Table Elevation Change
Feasibillity Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-123

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

Water Table Elevation Change (ft)

Upper HSU Extraction Well

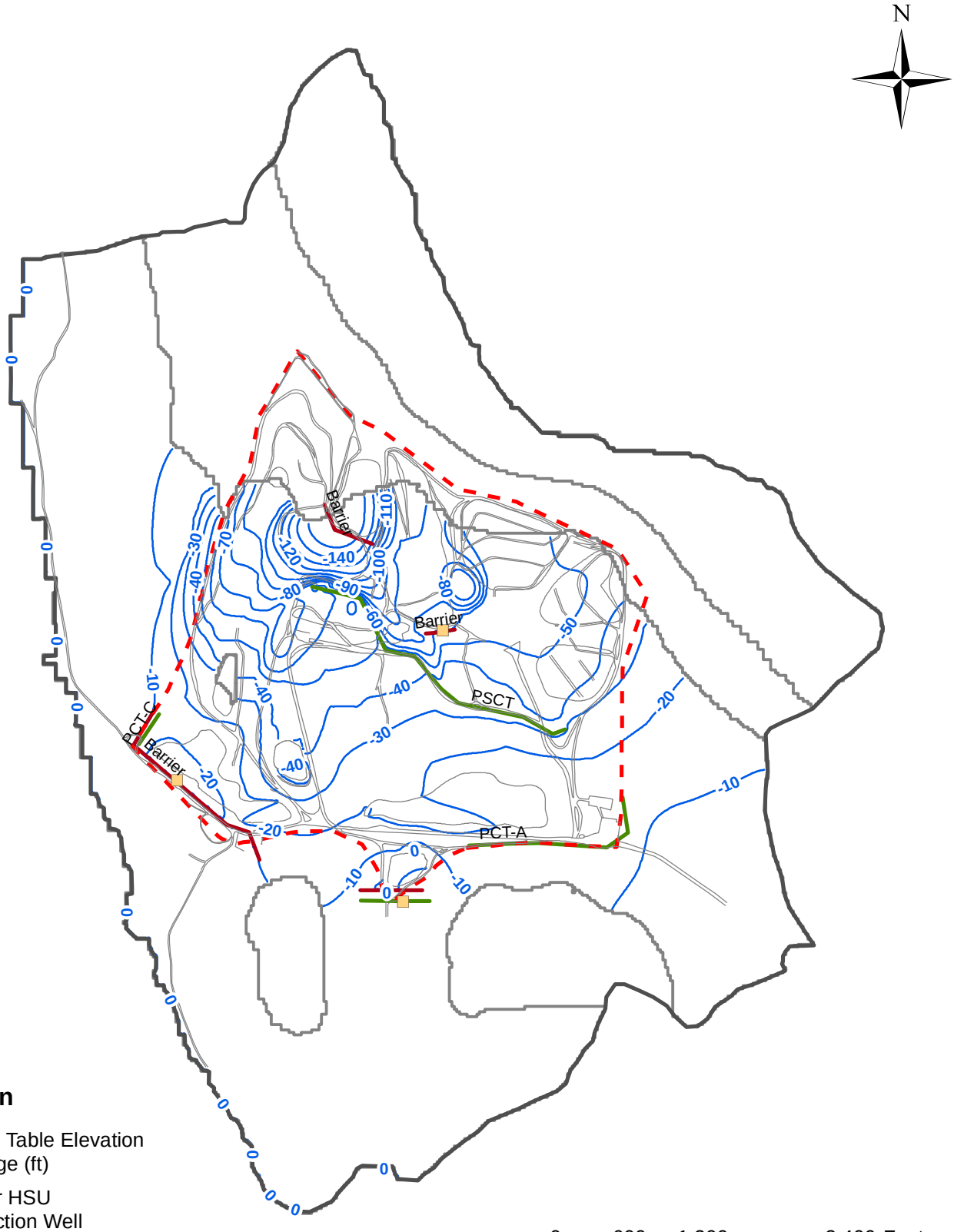
Zone 1 Boundary

Alternative 5
Simulated Water Table Elevation Change
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-124

FigureD1-124.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

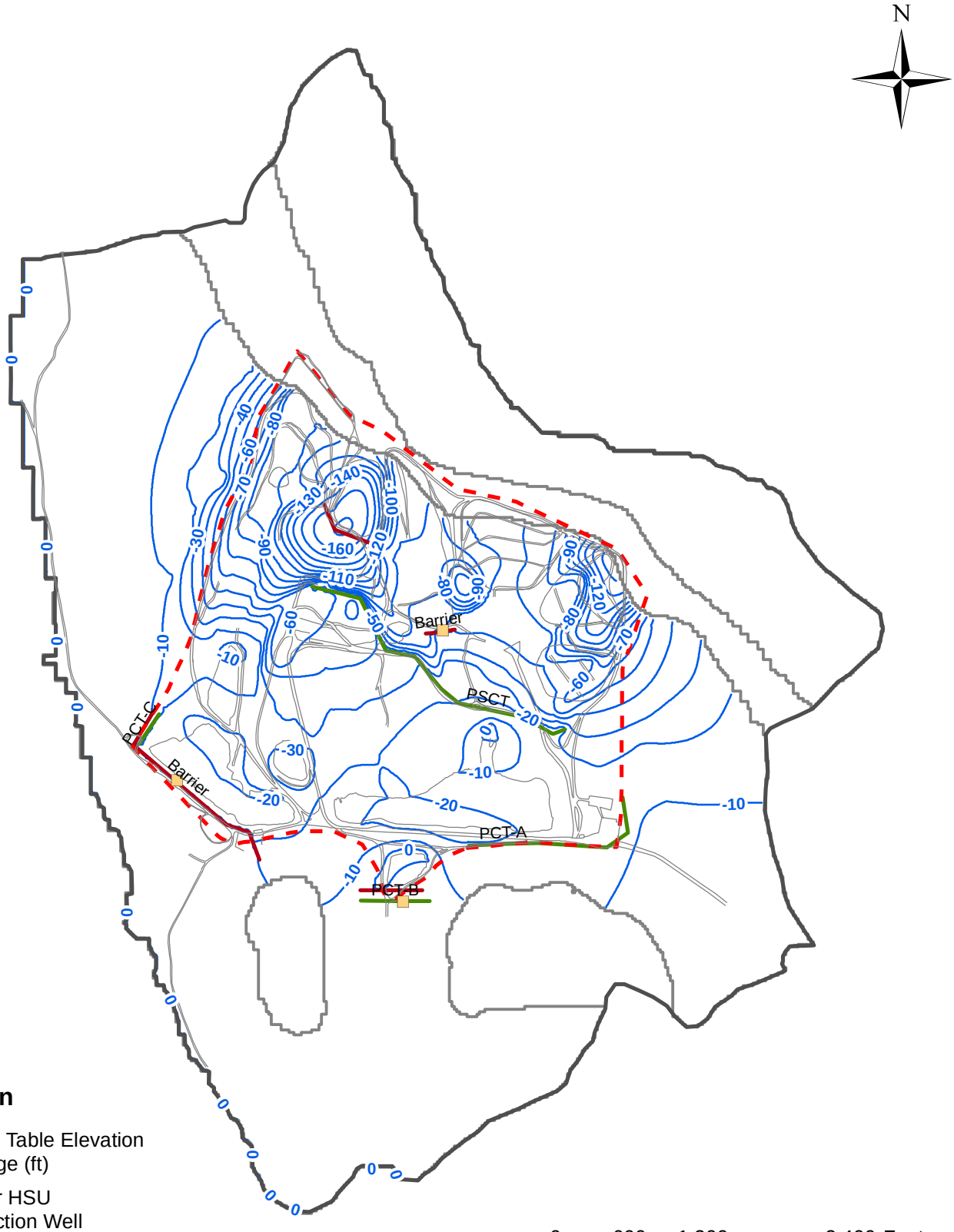
- Water Table Elevation Change (ft)
- Upper HSU Extraction Well
- Zone 1 Boundary

Alternative 6
Simulated Water Table Elevation Change
Feasibillity Study 2004 (Dry Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-125

FigureD1-125.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Explanation

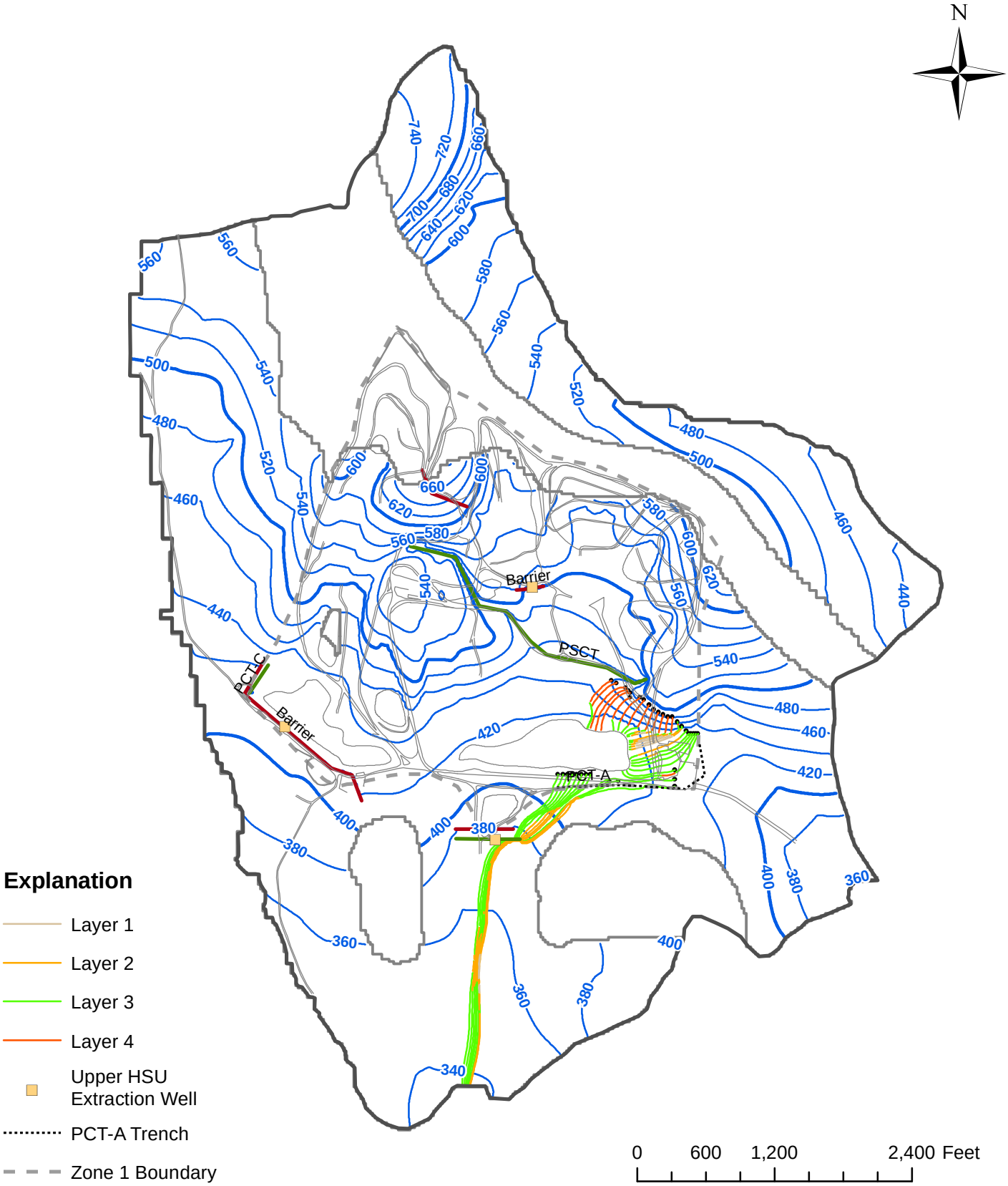
- Water Table Elevation Change (ft)
- Upper HSU Extraction Well
- Zone 1 Boundary

FigureD1-126.mxd

Alternative 6
Simulated Water Table Elevation Change
Feasibility Study 2001 (Wet Season) Model
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE
D1-126

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



Simulated Upper HSU Forward Flowpaths Without PCT-A Extraction Trench Modified March 2004 (Dry Season) Model

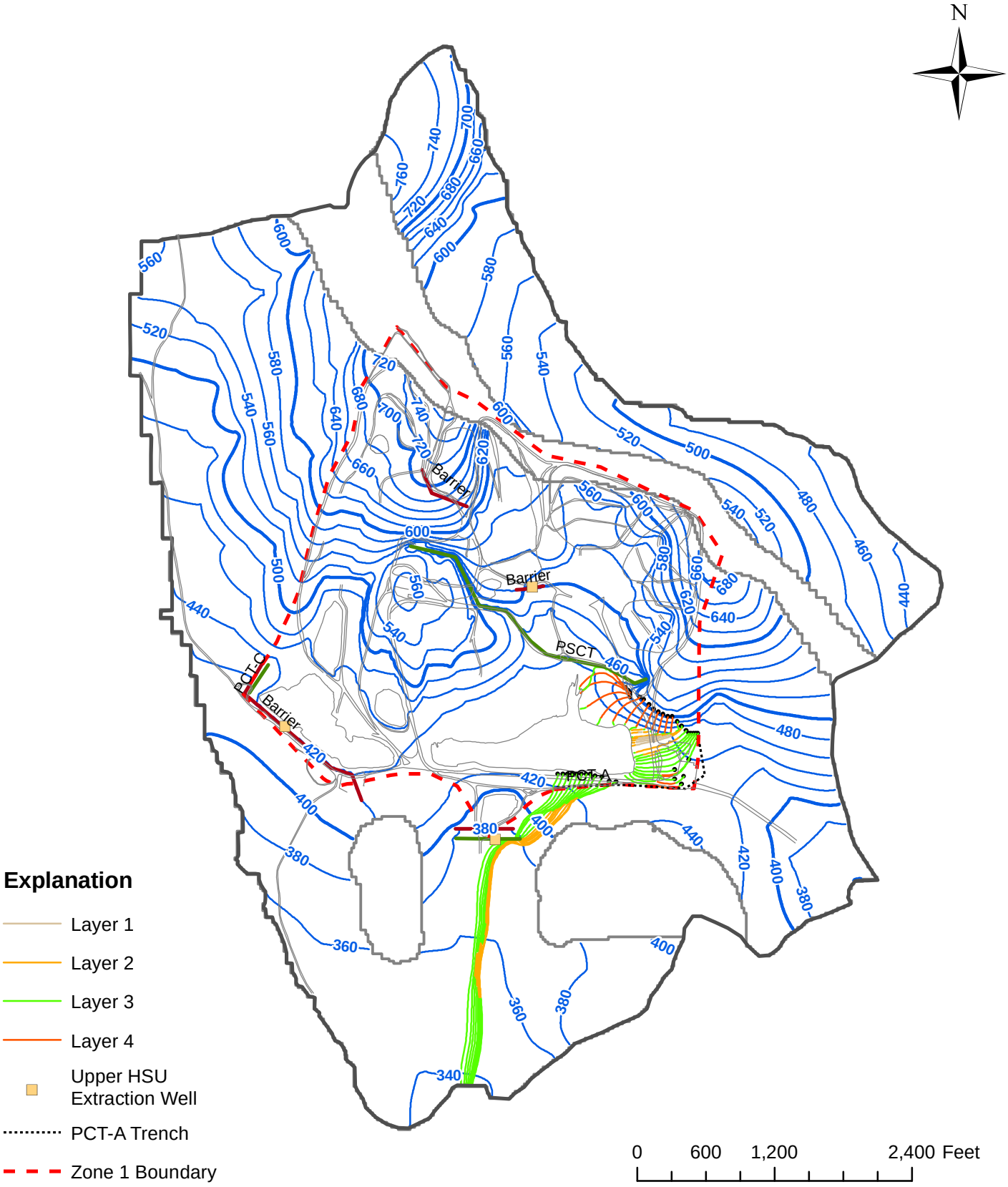
Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-127

FigureD1-127.mxd

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	



FigureD1-128.mxd

Simulated Upper HSU Forward Flowpaths
Without PCT-A Extraction Trench
Modified March 2001 (Wet Season) Model

Final Feasibility Study
Casmalia Resources Superfund Site
Casmalia, California

FIGURE

D1-128

DRAWN	JOB NUMBER	APPROVED	CHECKED	DATE	REVISED DATE
TFC	0020784 00.01	BB		08/2014	