Bolsa Chica Full Tidal Area Contaminant Cleanup Plan

FIGURES

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July 8, 2004

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Figures 1 through 14

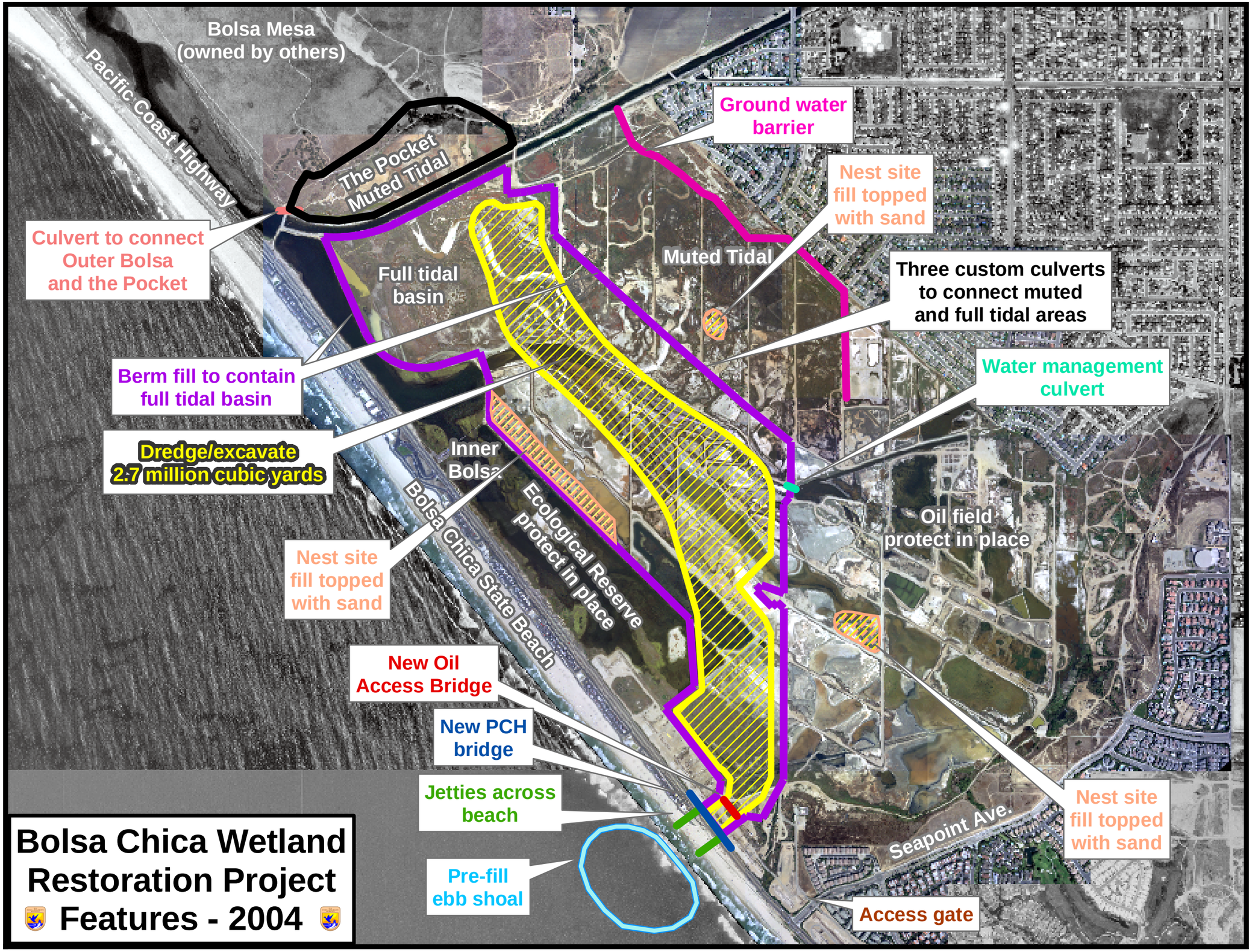
Bolsa Mesa
(owned by others)
Pacific Coast Highway
The Pocket
Muted Tidal
Ground water
barrier
Nest site
fill topped
with sand
Culvert to connect
Outer Bolsa
and the Pocket
Full tidal
basin
Muted Tidal
Three custom culverts
to connect muted
and full tidal areas
Berm fill to contain
full tidal basin
Water management
culvert
Dredge/excavate
2.7 million cubic yards
Inner
Bolsa
Bolsa Chica State Beach
Ecological Reserve
protect in place
Oil field
protect in place
Nest site
fill topped
with sand
New Oil
Access Bridge
New PCH
bridge
Jetties across
beach
Seapoint Ave.
Nest site
fill topped
with sand
Pre-fill
ebb shoal
Access gate
Bolsa Chica Wetland
Restoration Project
Features - 2004

Figure 1

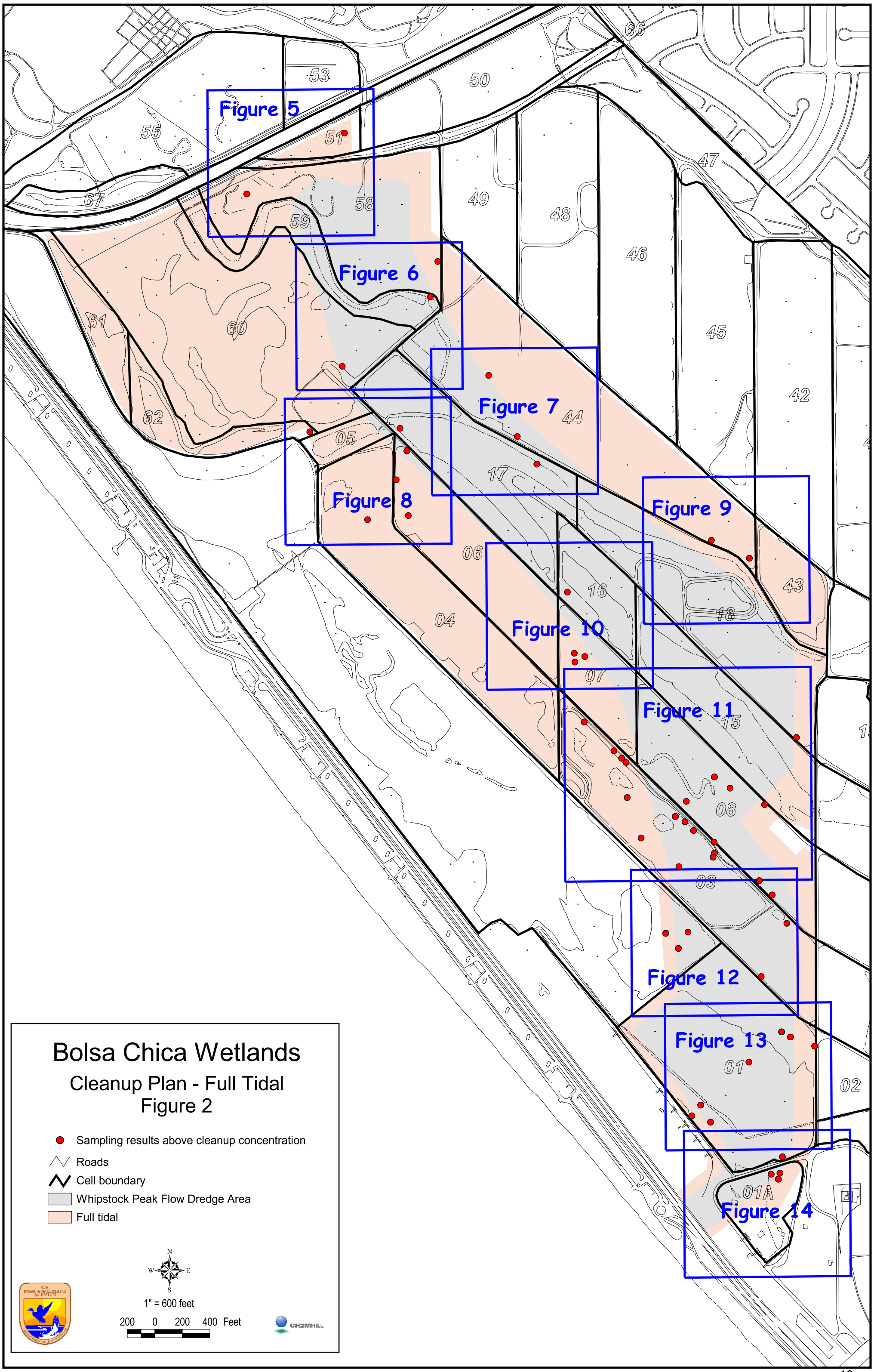
Figure 5
Figure 6
Figure 7
Figure 8
Figure 9
Figure 10
Figure 11
Figure 12
Figure 13
Figure 14
Bolsa Chica Wetlands
Cleanup Plan - Full Tidal
Figure 2
Sampling results above cleanup concentration
Roads
Cell boundary
Whipstock Peak Flow Dredge Area
Full tidal
N
W
E
S
1" = 600 feet
200 0 200 400 Feet
CH2MHILL

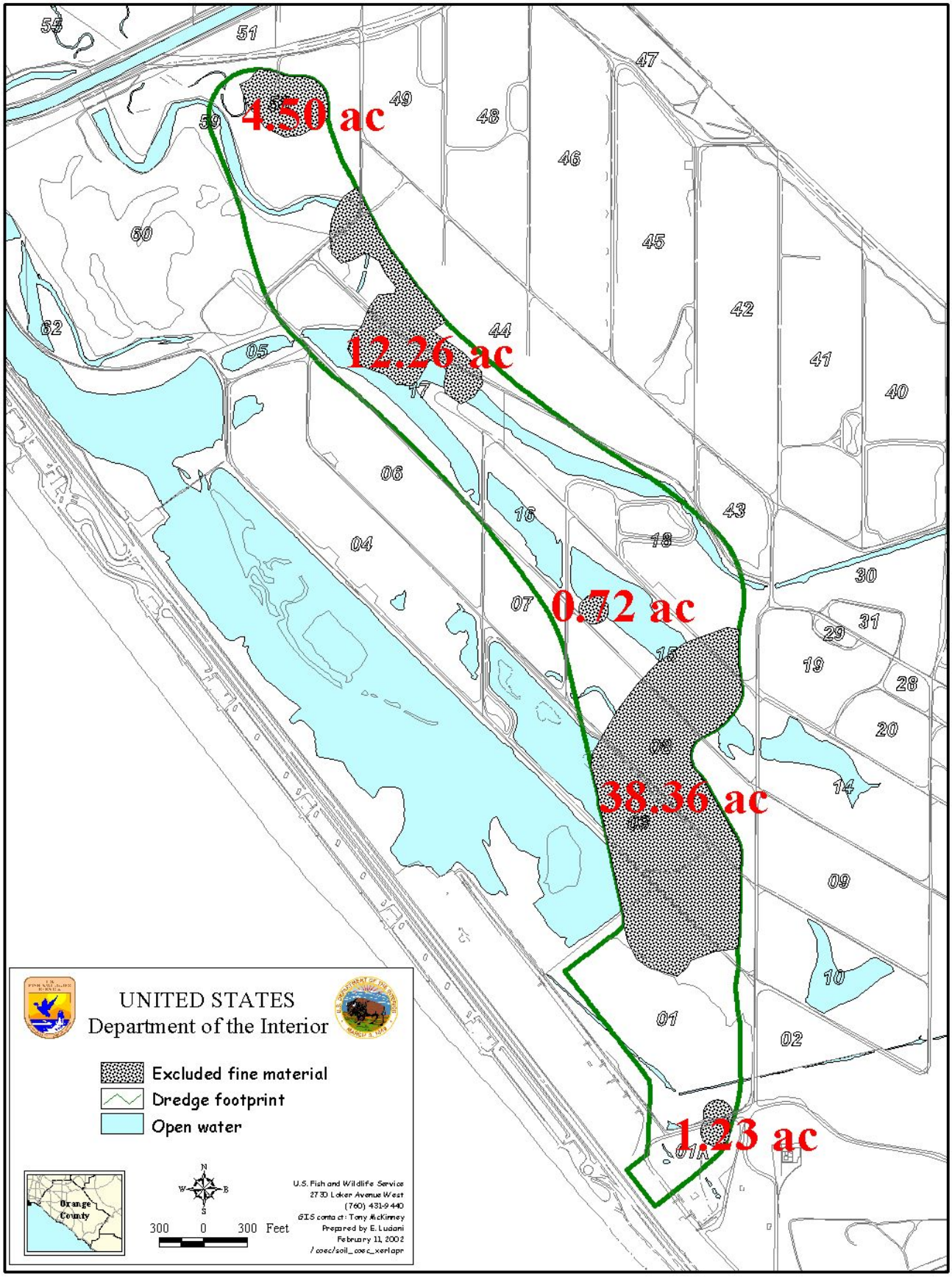

Figure 3. Areas excluded for placement in the Ebb Shoal because of fine material or contamination.

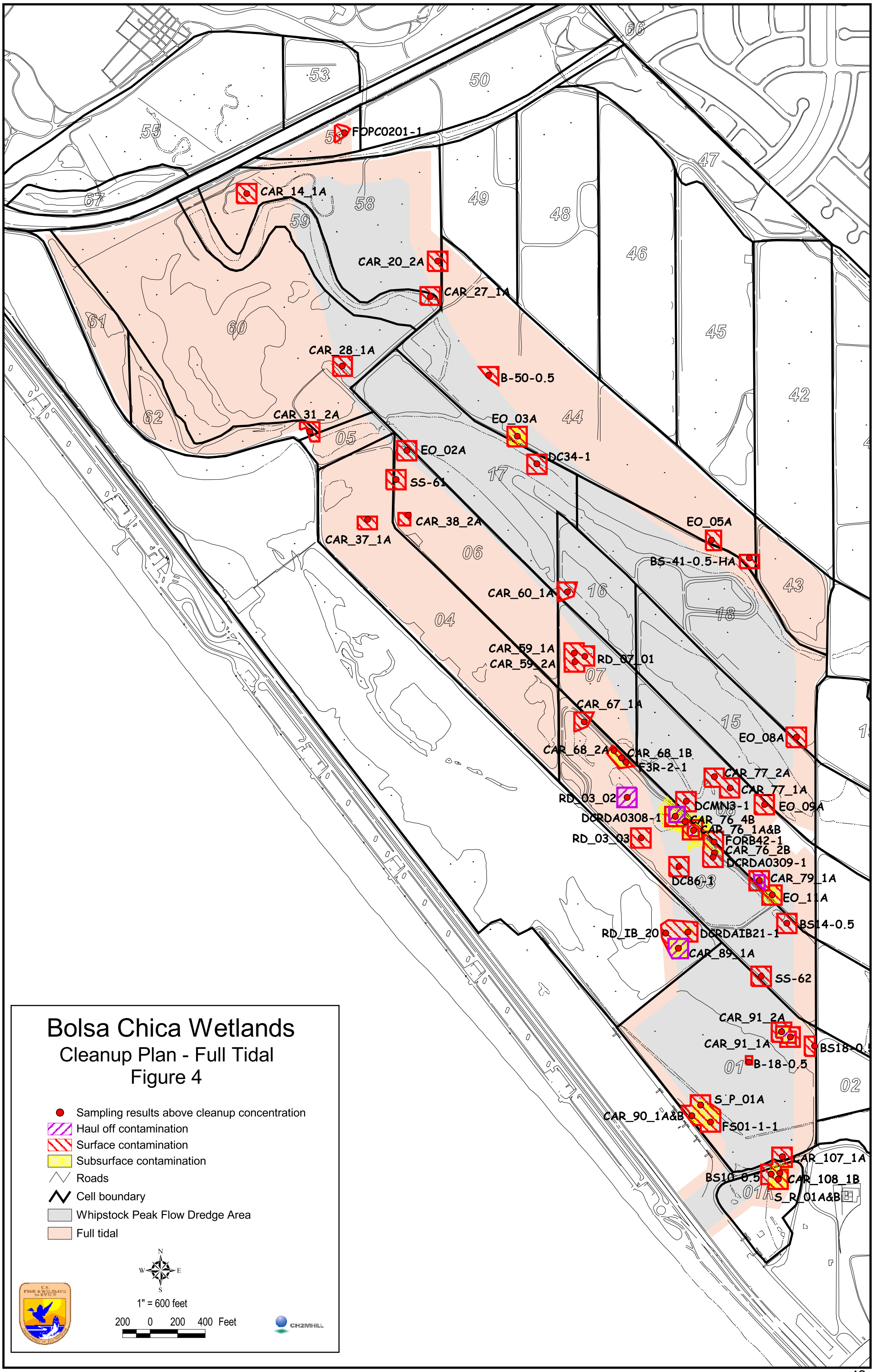
Bolsa Chica Wetlands
Cleanup Plan - Full Tidal
Figure 4
Sampling results above cleanup concentration
Haul off contamination
Surface contamination
Subsurface contamination
Roads
Cell boundary
Whipstock Peak Flow Dredge Area
Full tidal
N
W
E
S
1" = 600 feet
200 0 200 400 Feet
CH2MHILL
FOPC0201-1
CAR_14_1A
CAR_20_2A
CAR_27_1A
CAR_28_1A
B-50-0.5
CAR_31_2A
EO_03A
EO_02A
DC34-1
SS-61
CAR_38_2A
CAR_37_1A
EO_05A
BS-41-0.5-HA
CAR_60_1A
CAR_59_1A
CAR_59_2A
RD_07_01
CAR_67_1A
EO_08A
CAR_68_2A
CAR_68_1B
F3R-2-1
CAR_77_2A
CAR_77_1A
RD_03_02
DCMN3-1
EO_09A
DCRDA0308-1
CAR_76_4B
CAR_76_1A&B
RD_03_03
FORB42-1
CAR_76_2B
DCRDA0309-1
DC86-1
CAR_79_1A
EO_11A
BS14-0.5
RD_IB_20
DCRDAIB21-1
CAR_89_1A
SS-62
CAR_91_2A
CAR_91_1A
BS18-0.5
B-18-0.5
S_P_01A
CAR_90_1A&B
FS01-1-1
CAR_107_1A
BS10-0.5
CAR_108_1B
S_R_01A&B

Figure 5. Cleanup Plan for CAR_14_1A and FOPCO201-1

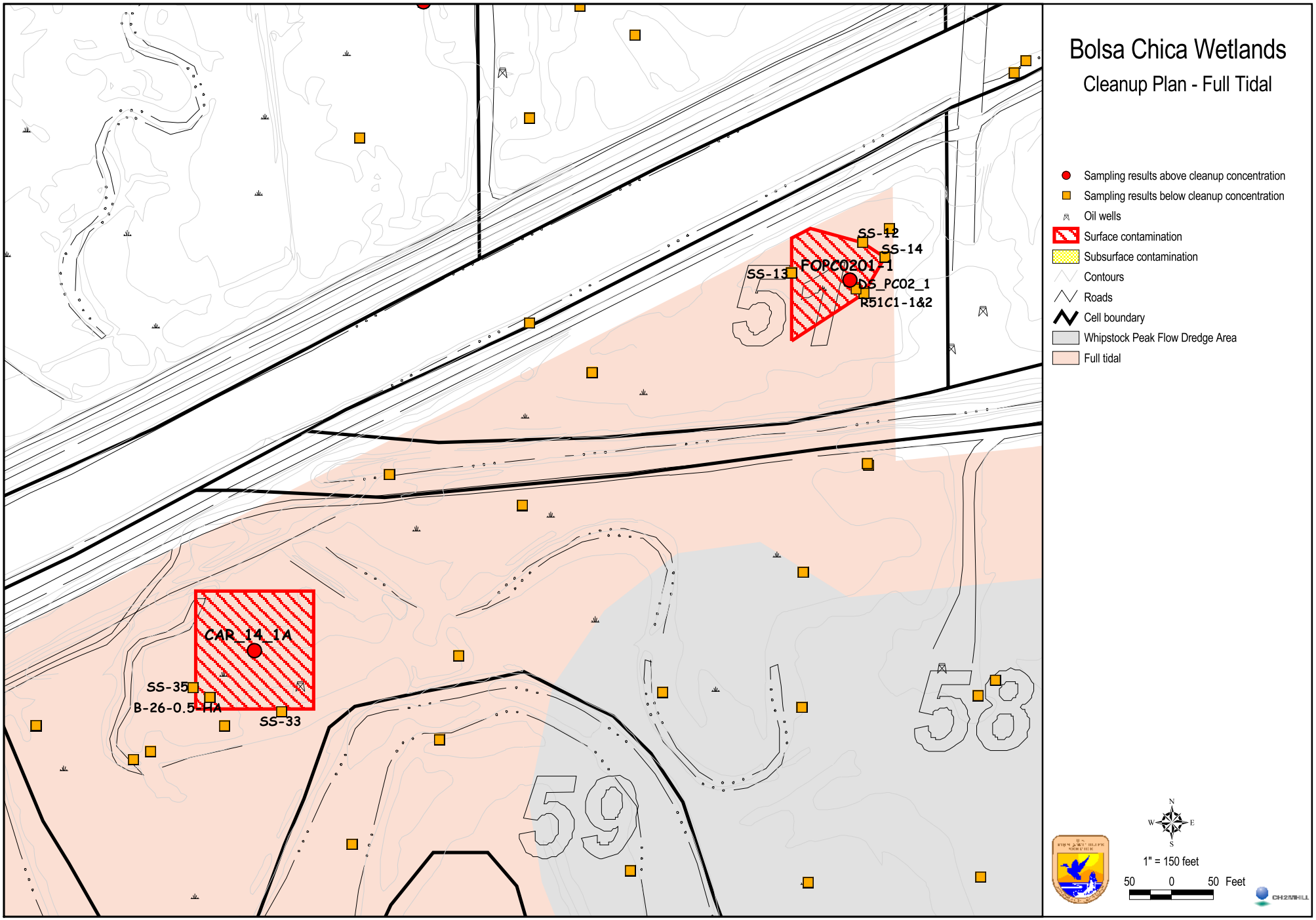

Figure 6. Cleanup Plan for CAR_20_2A, CAR_27_1A and CAR_28_1A

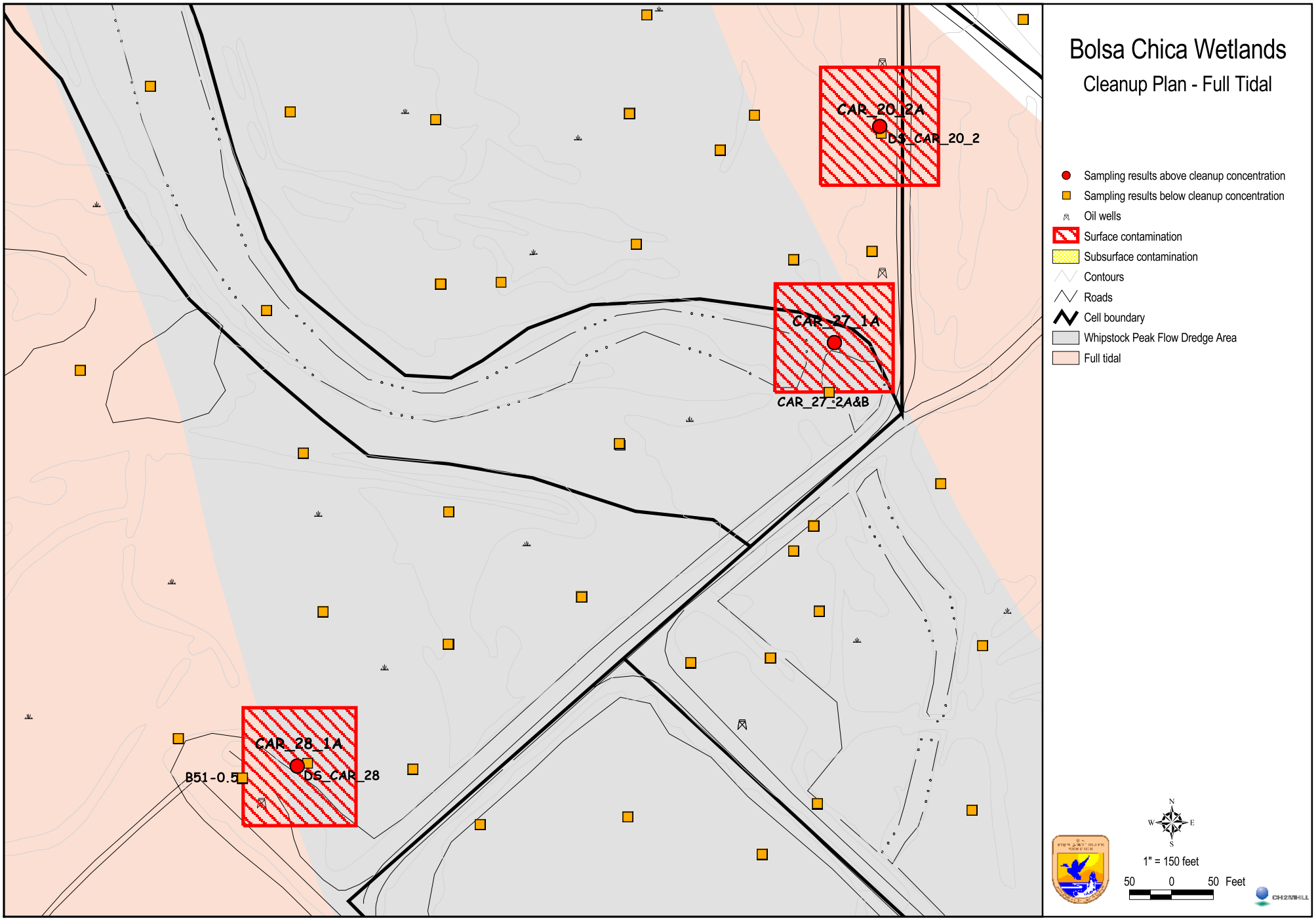

Figure 7. Cleanup Plan for B-50-0.5, EO-03A, and DC34-1

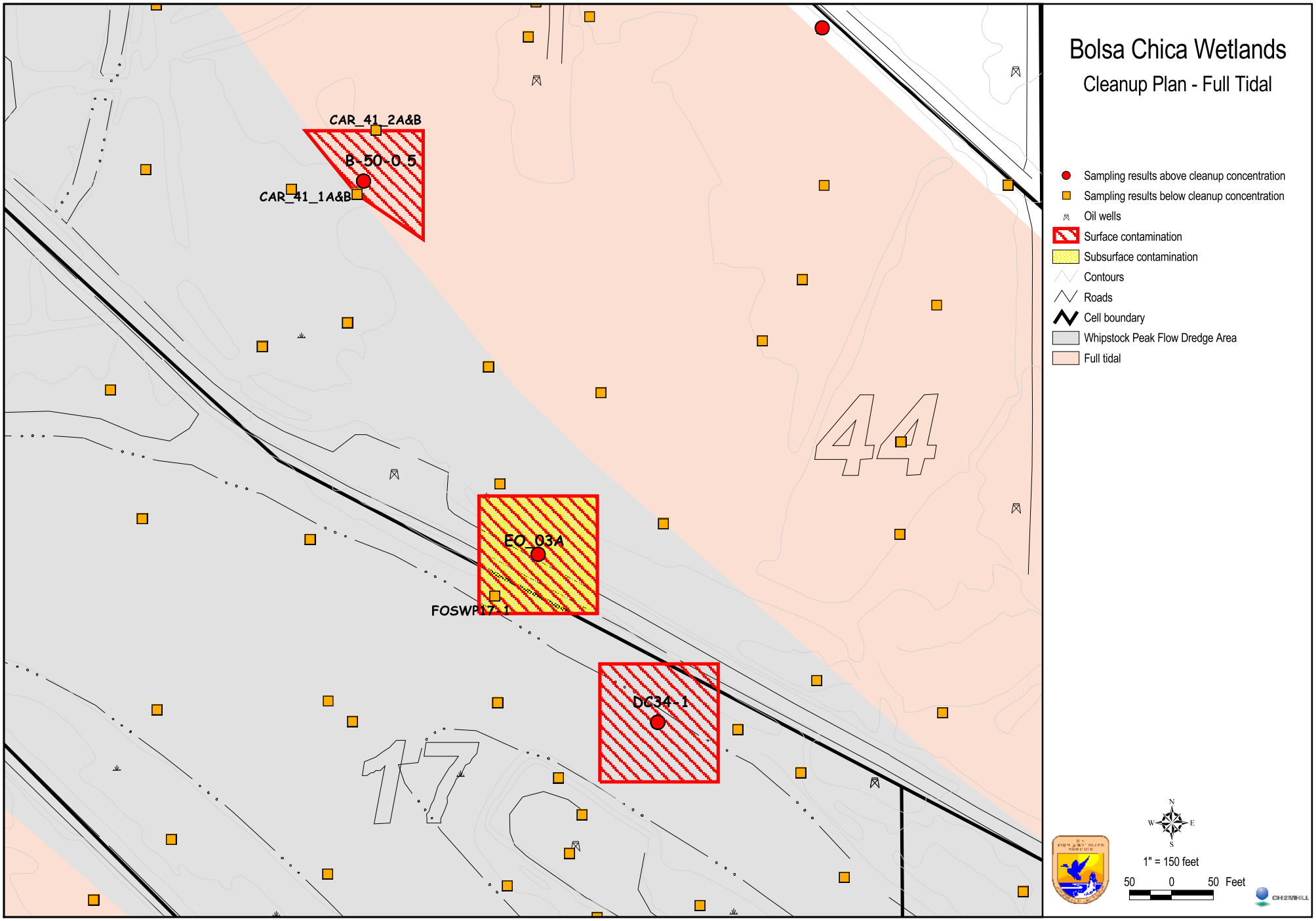

Figure 8. Cleanup Plan for CAR_31_2A, CAR_37_1A, CAR_38_2A, EO_02A, and SS_61

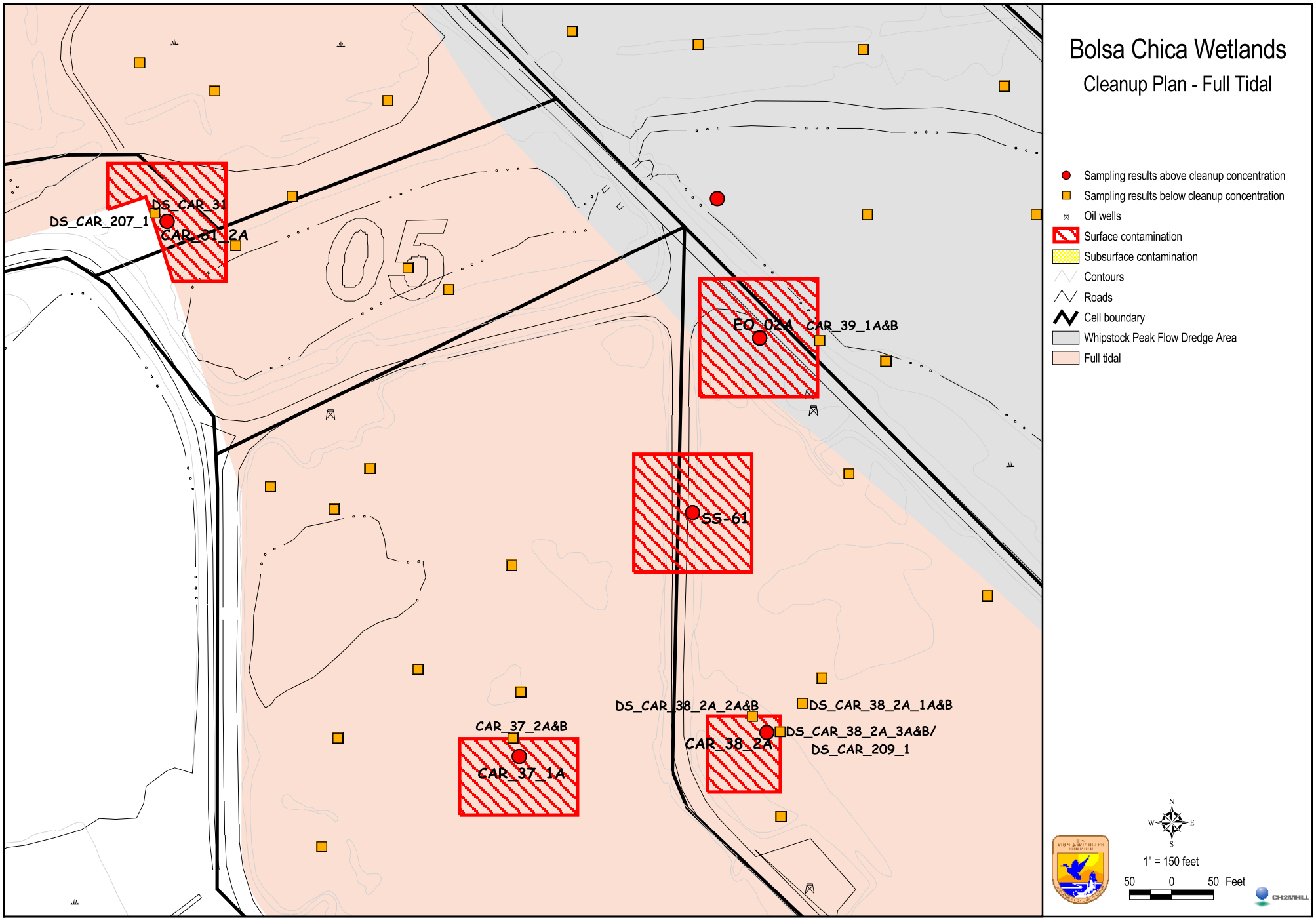

Figure 9. Cleanup Plan for BS-41-0.5-HA and EO_05A

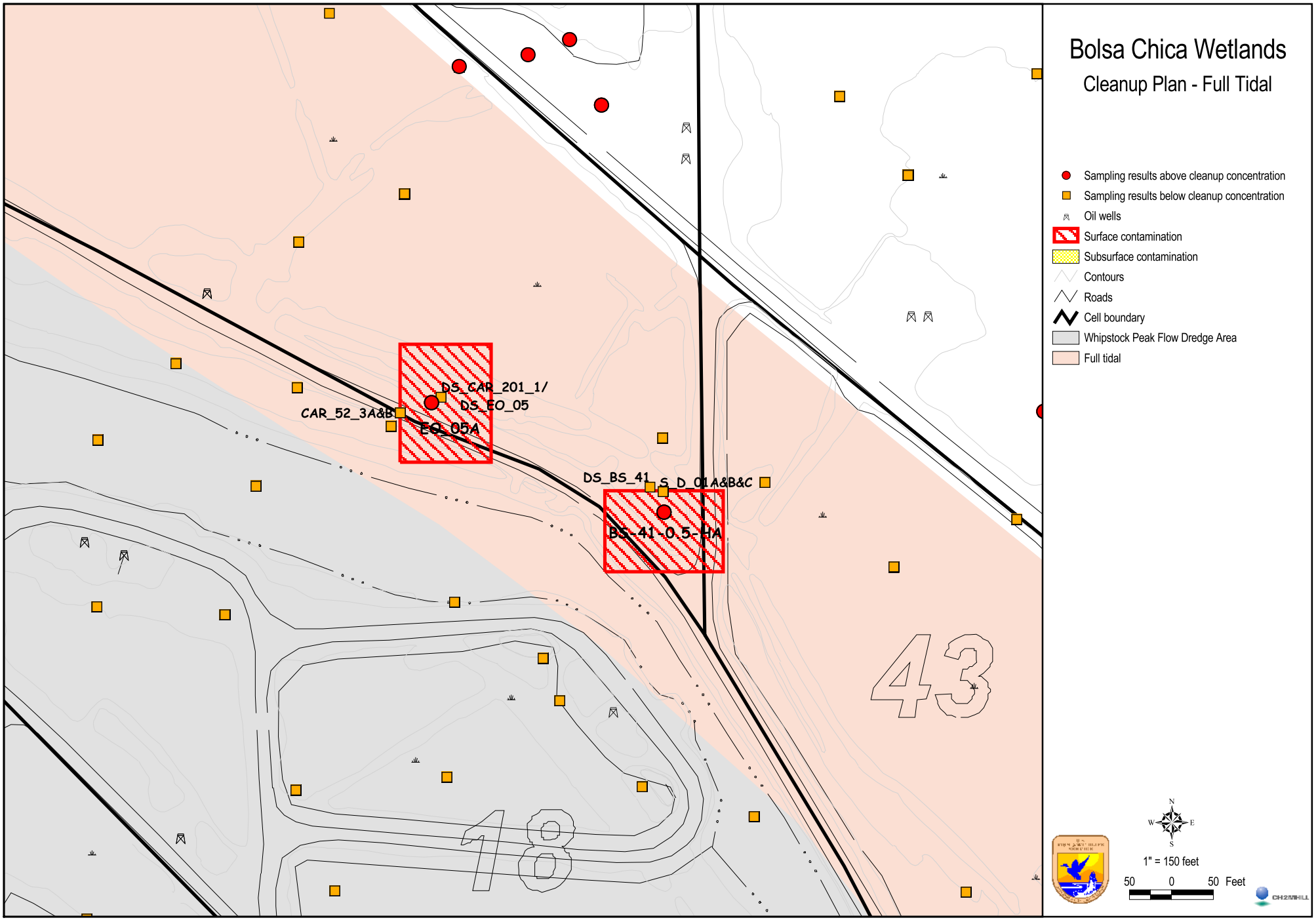

Figure 10. Cleanup Plan for CAR_59_1A, CAR_59_2A, CAR_60_1A and RD_07_01

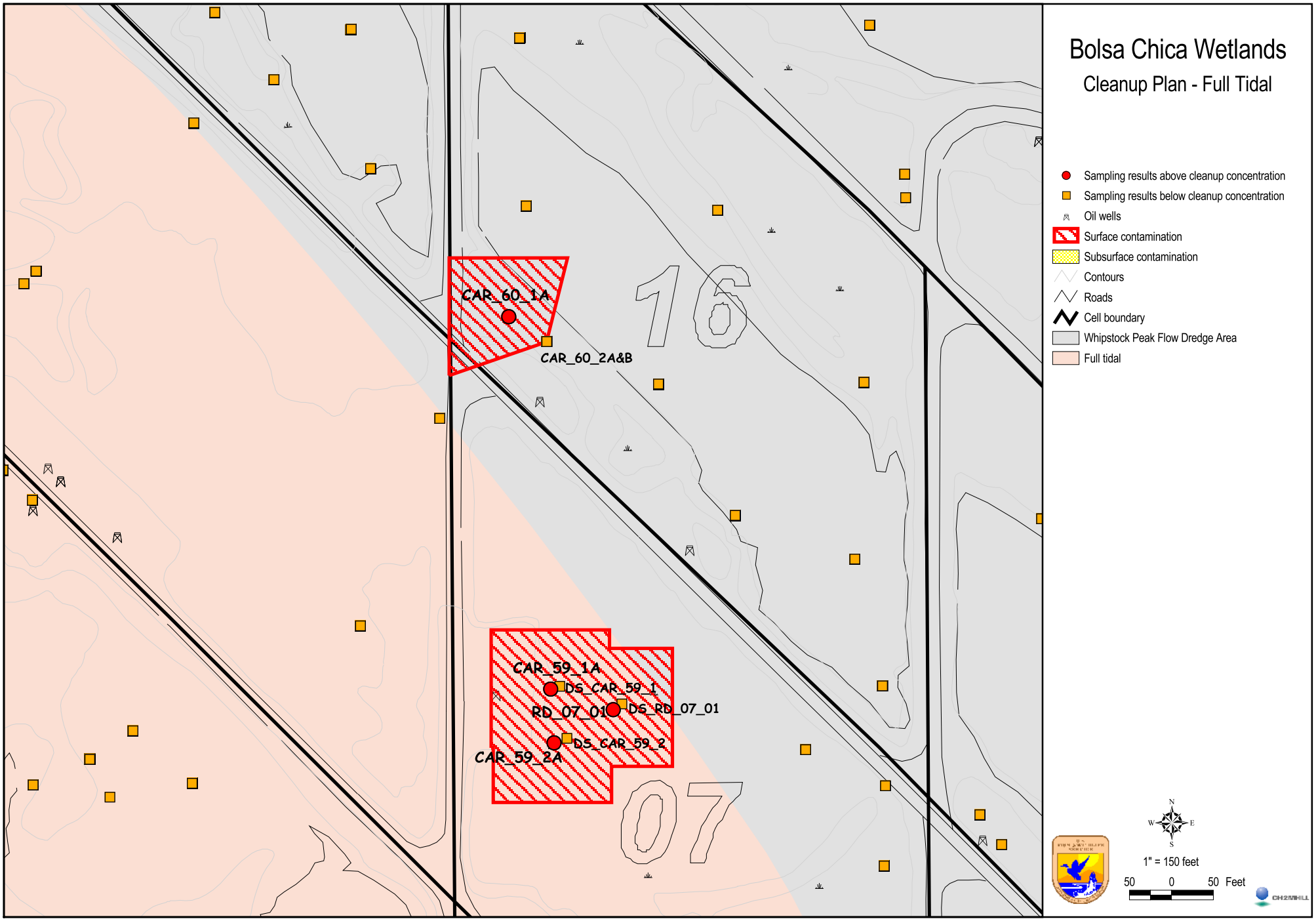

Figure 11. Cleanup Plan for CAR_67_1A, CAR_68_1B, CAR_68_2A, CAR_76_1A, CAR_76_1B, CAR_76_2B, CAR_76_4B, CAR_77_1A, CAR_77_2A, DC86-1, DCMN3-1, DCRDA0308-1, DCRDA0309-1, EO_08A, EO_09A, F3R-2-1, RD_03_02 and RD_03_03

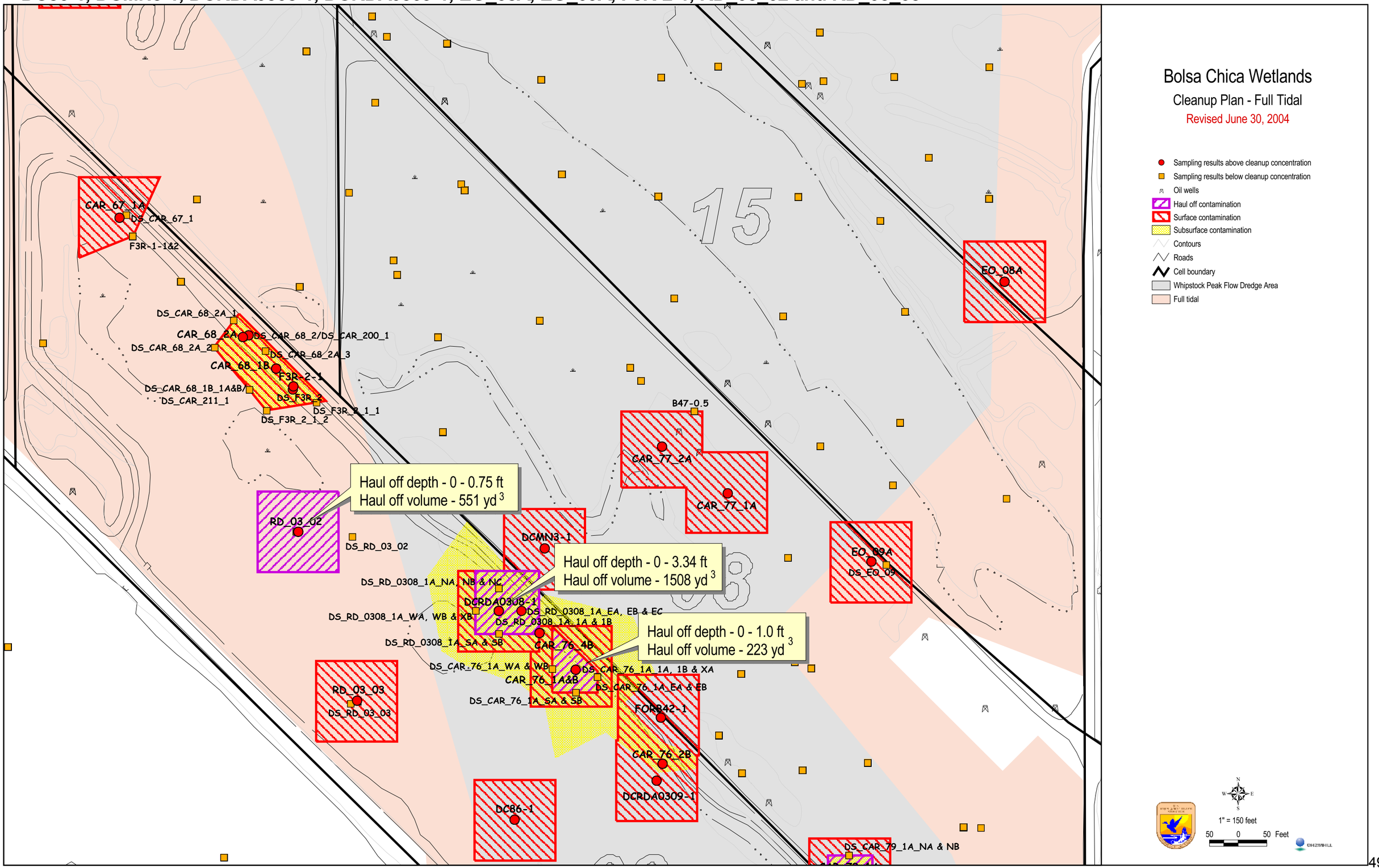

Figure 12. Cleanup Plan for BS14-0.5, CAR_79_1A, CAR_89_1A, DCRDAIB21-1, EO_11A, RD_IB_20 and SS-62

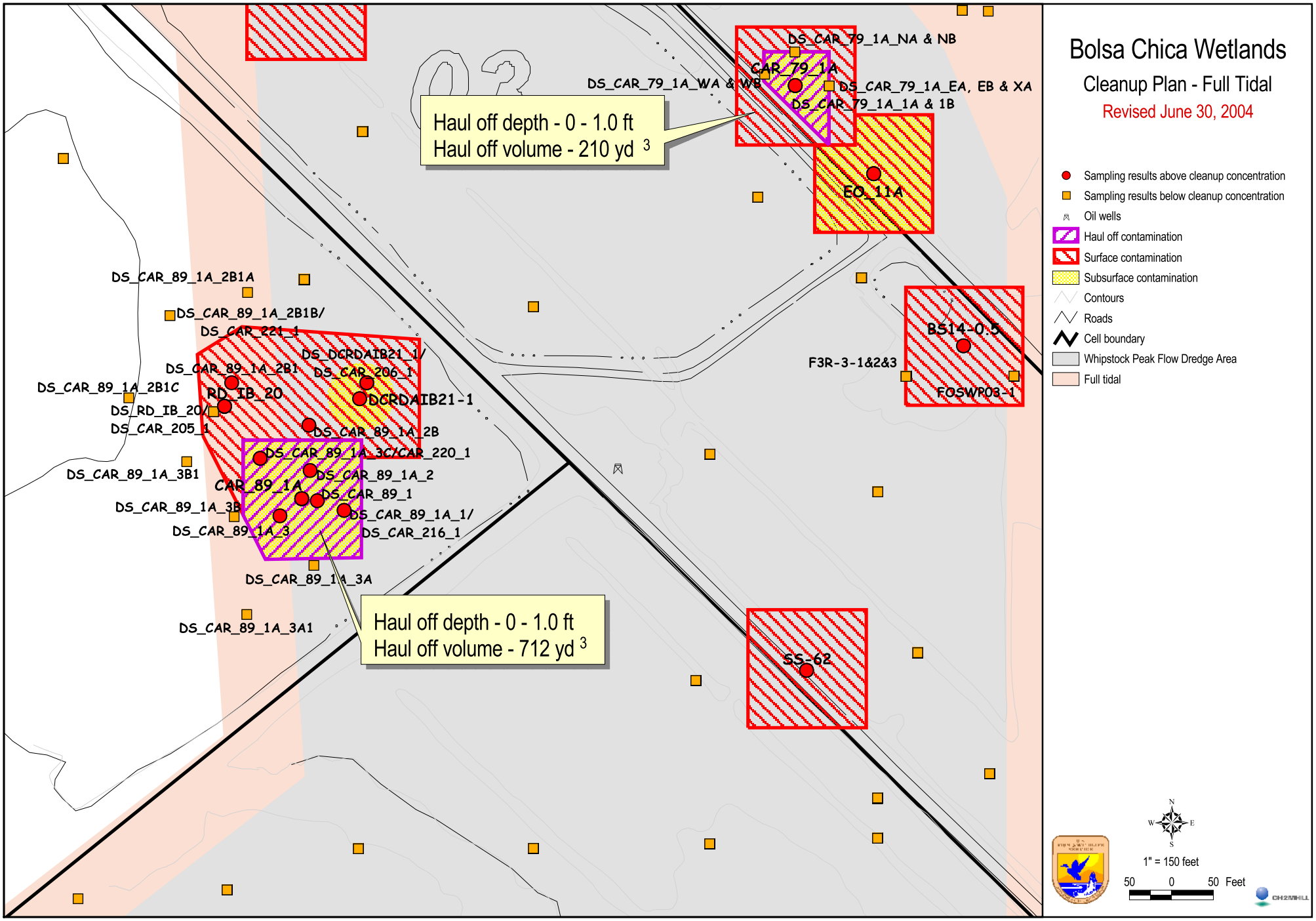

Figure 13. Cleanup Plan for B-18-0.5, BS18-0.5, CAR_90_1A, CAR_90_1B, CAR_91_1A, CAR_91_2A, FS01-1-1 and S_P_01A

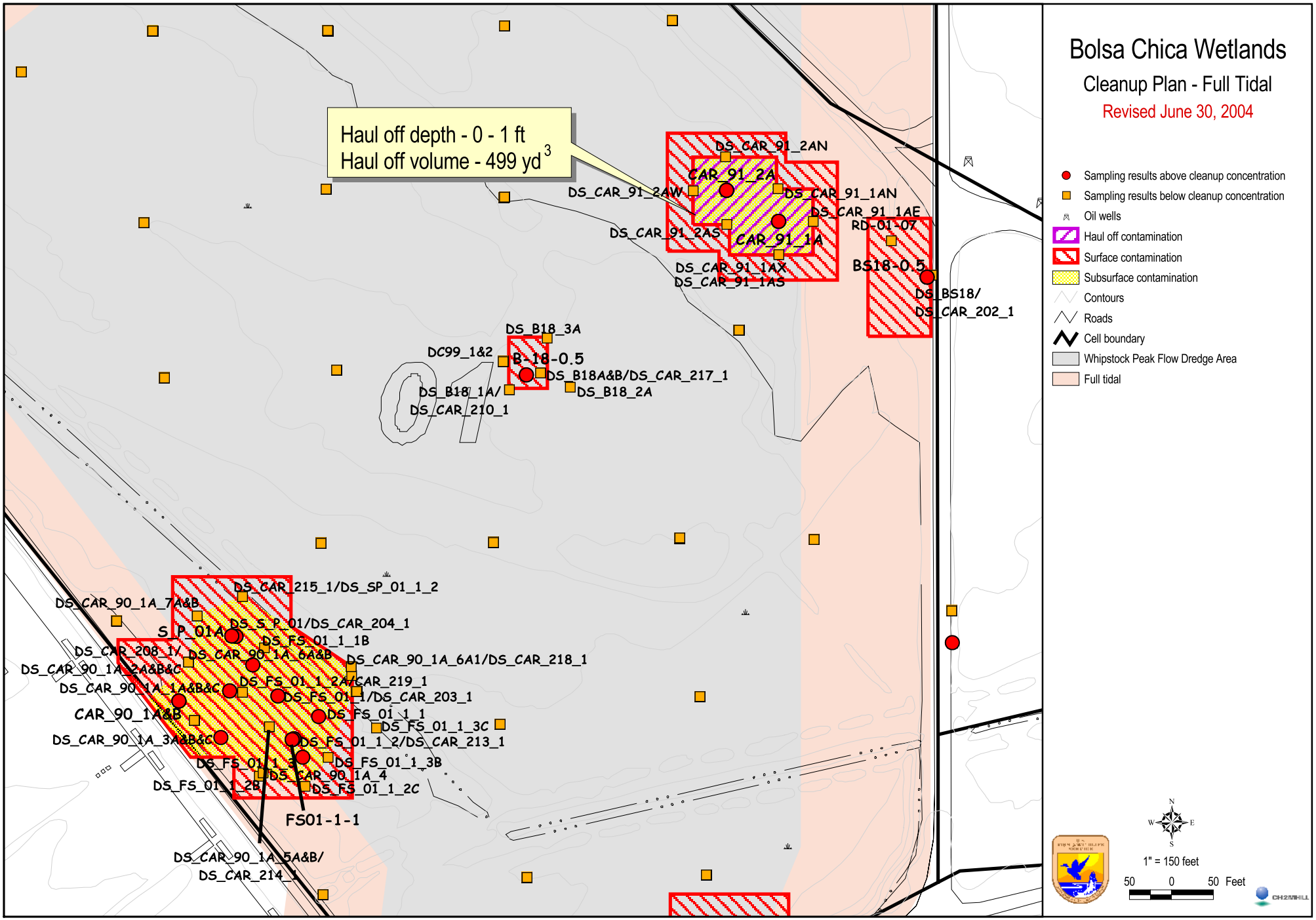
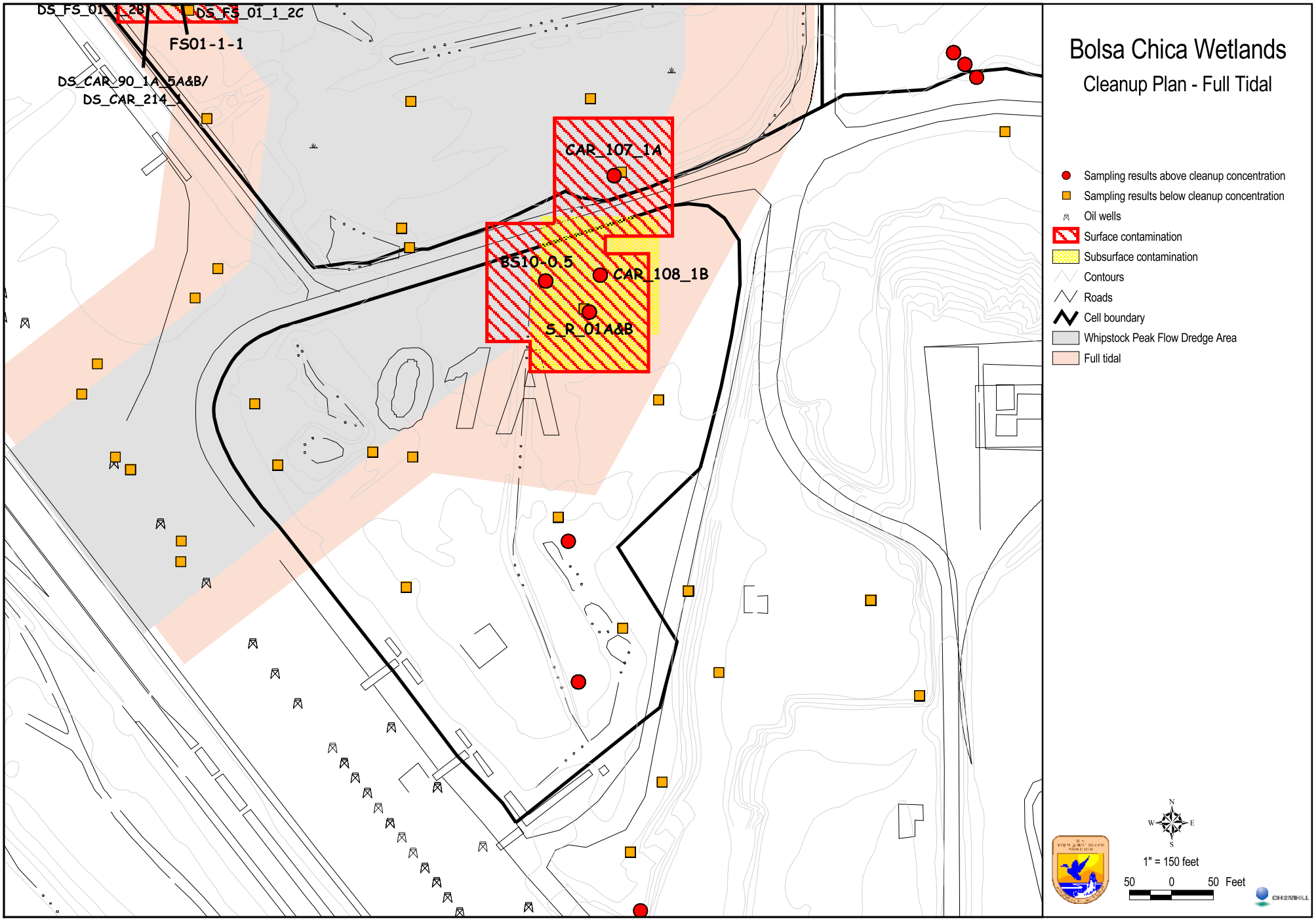
Figure 14. Cleanup Plan for BS10-0.5, CAR_107_1A, CAR_108_1B, S_R_01A and S_R_01B