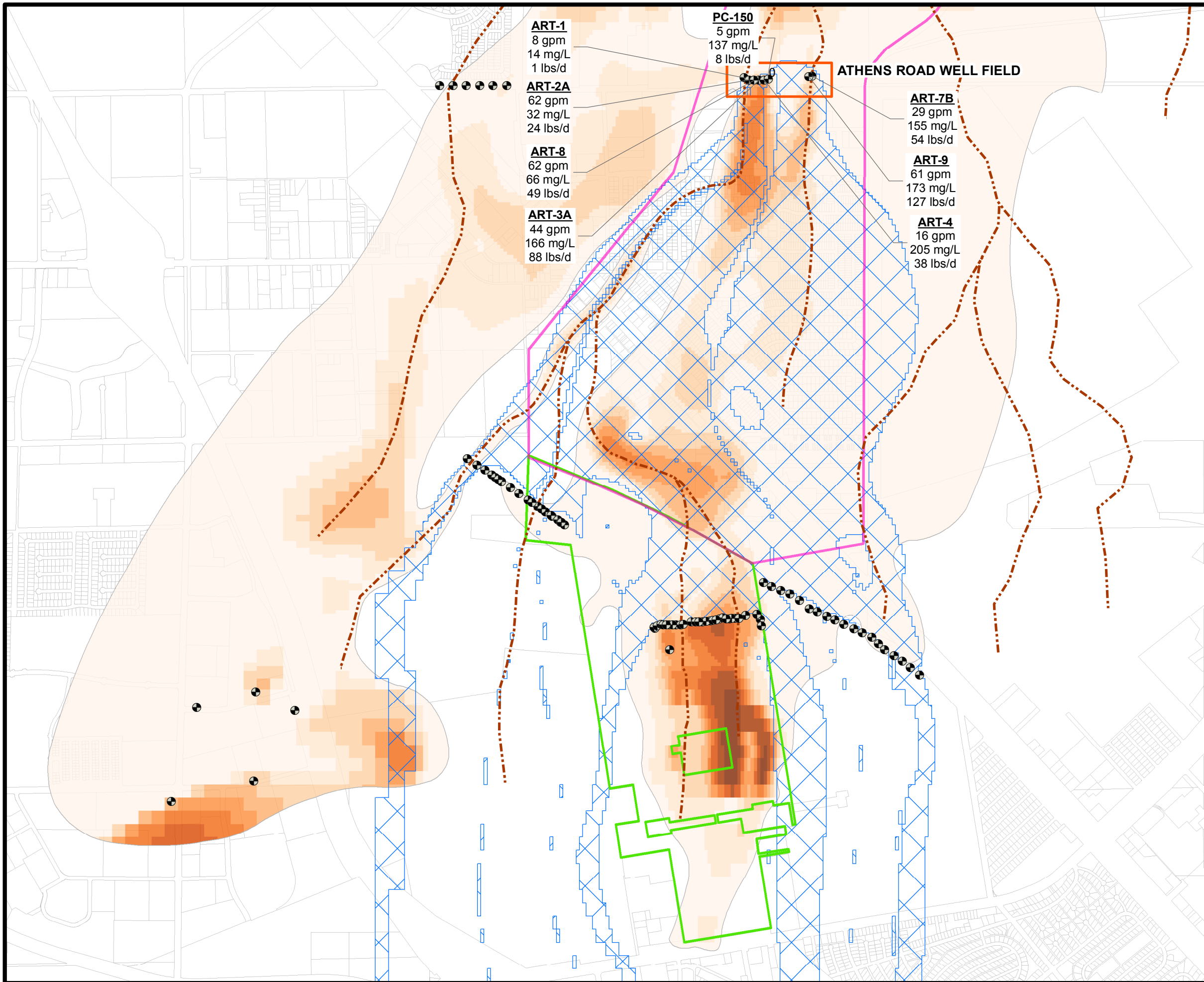


Appendix D

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-1a-AWF_2015Q2.mxd



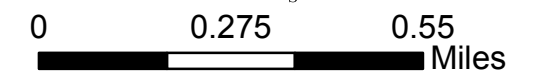
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
- Athens Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

ART-1 - Well Name
 8 gpm - Pumping Rate
 14 mg/L - Perchlorate Concentration*
 6 lbs/d - Instantaneous Mass Removal
 * Concentrations estimated from interpolated plume map

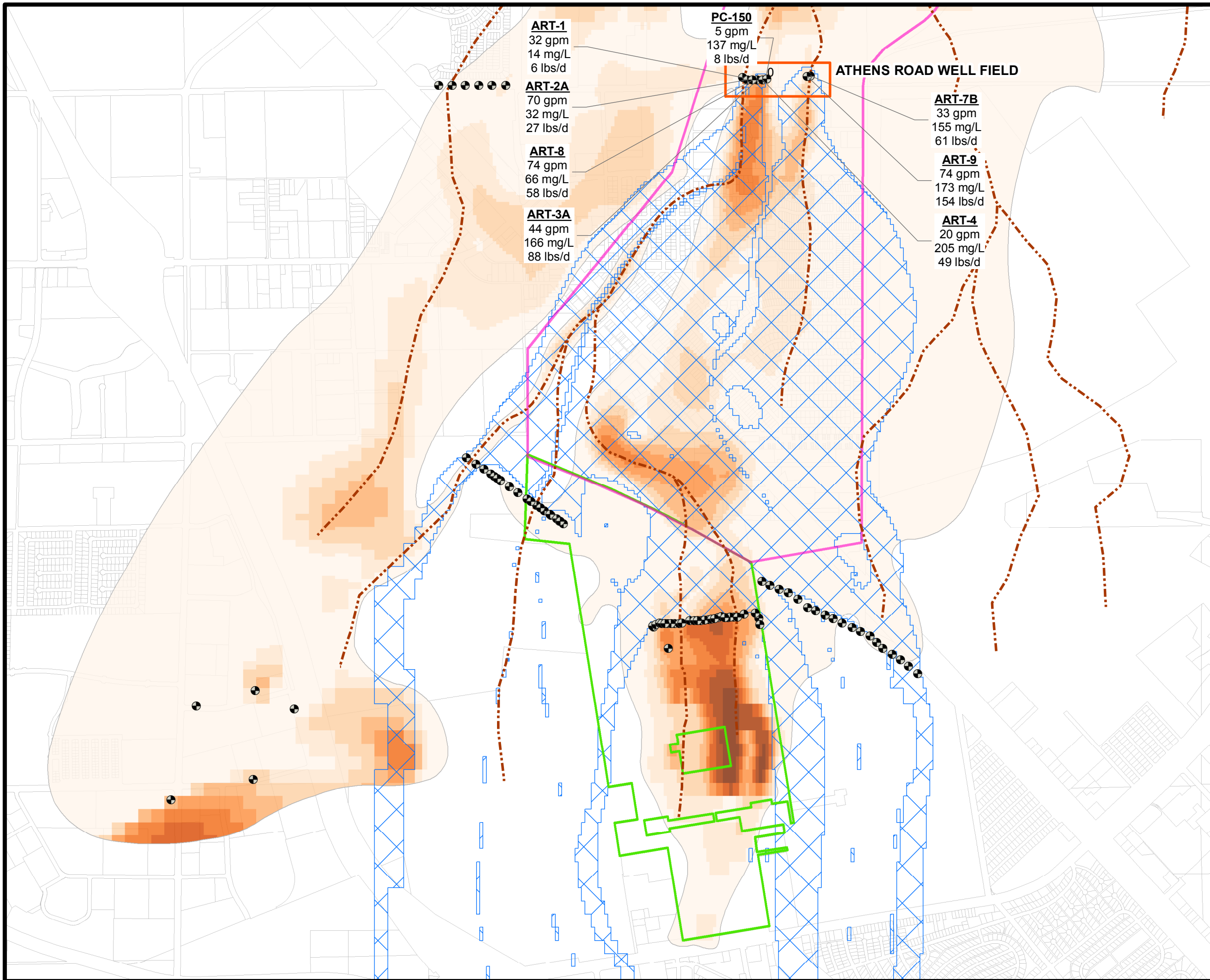


AWF SCENARIO: 2015Q2 PUMPING
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-1a

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix.D\GIS\FigD-1b-AWF_Max Pumping Rate.mxd



EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary

Capture Zone

- Athens Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

ART-1 - Well Name
8 gpm - Pumping Rate
14 mg/L - Perchlorate Concentration*
6 lbs/d - Instantaneous Mass Removal
* Concentrations estimated from interpolated plume map

0 0.275 0.55 Miles

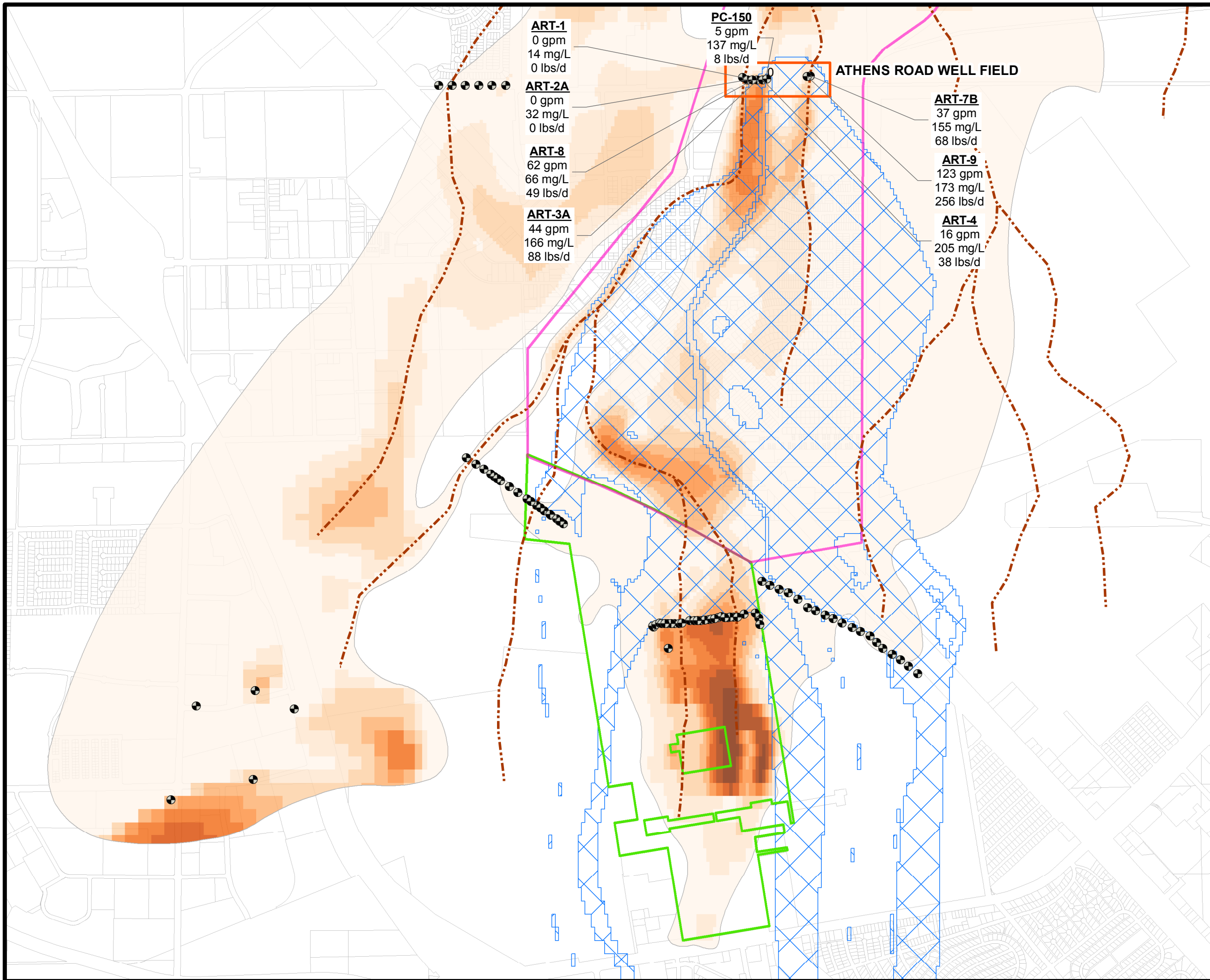
RAMBOLL ENVIRON

AWF SCENARIO: MAXIMUM PUMPING
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-1b

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\Fgd-1C-AWF_Shift_Pumping to East.mxd



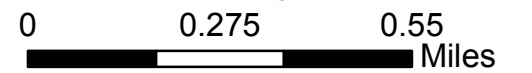
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
- Athens Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

ART-1 - Well Name
 8 gpm - Pumping Rate
 14 mg/L - Perchlorate Concentration*
 6 lbs/d - Instantaneous Mass Removal
 * Concentrations estimated from interpolated plume map

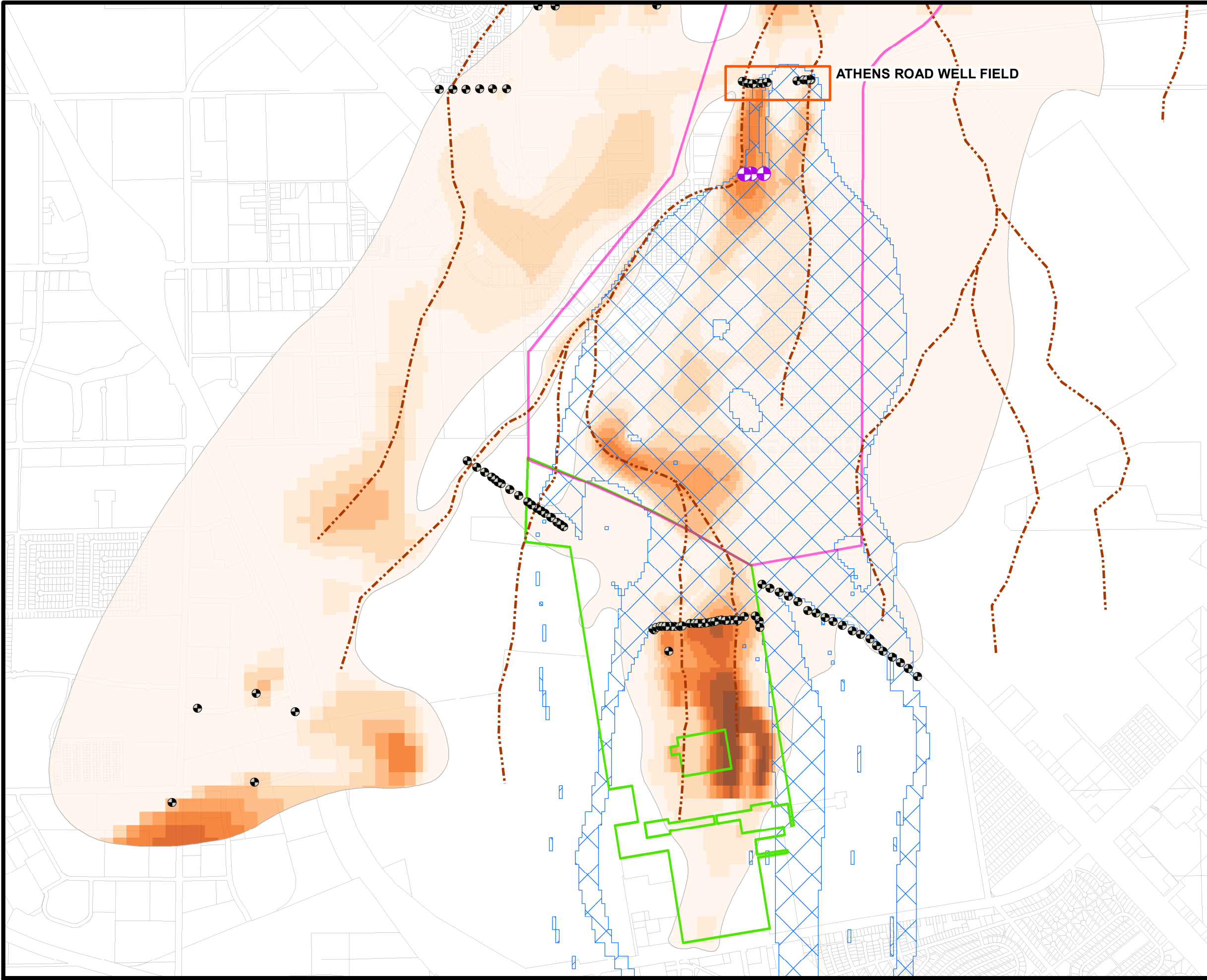


AWF SCENARIO: SHIFT PUMPING EAST
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-1c

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-1d-AWF_sunset_road.mxd

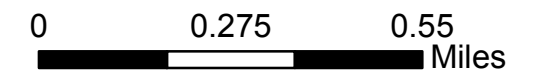
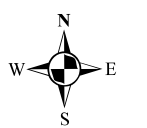


EXPLANATION

- Proposed Wells
- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
- Athens Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

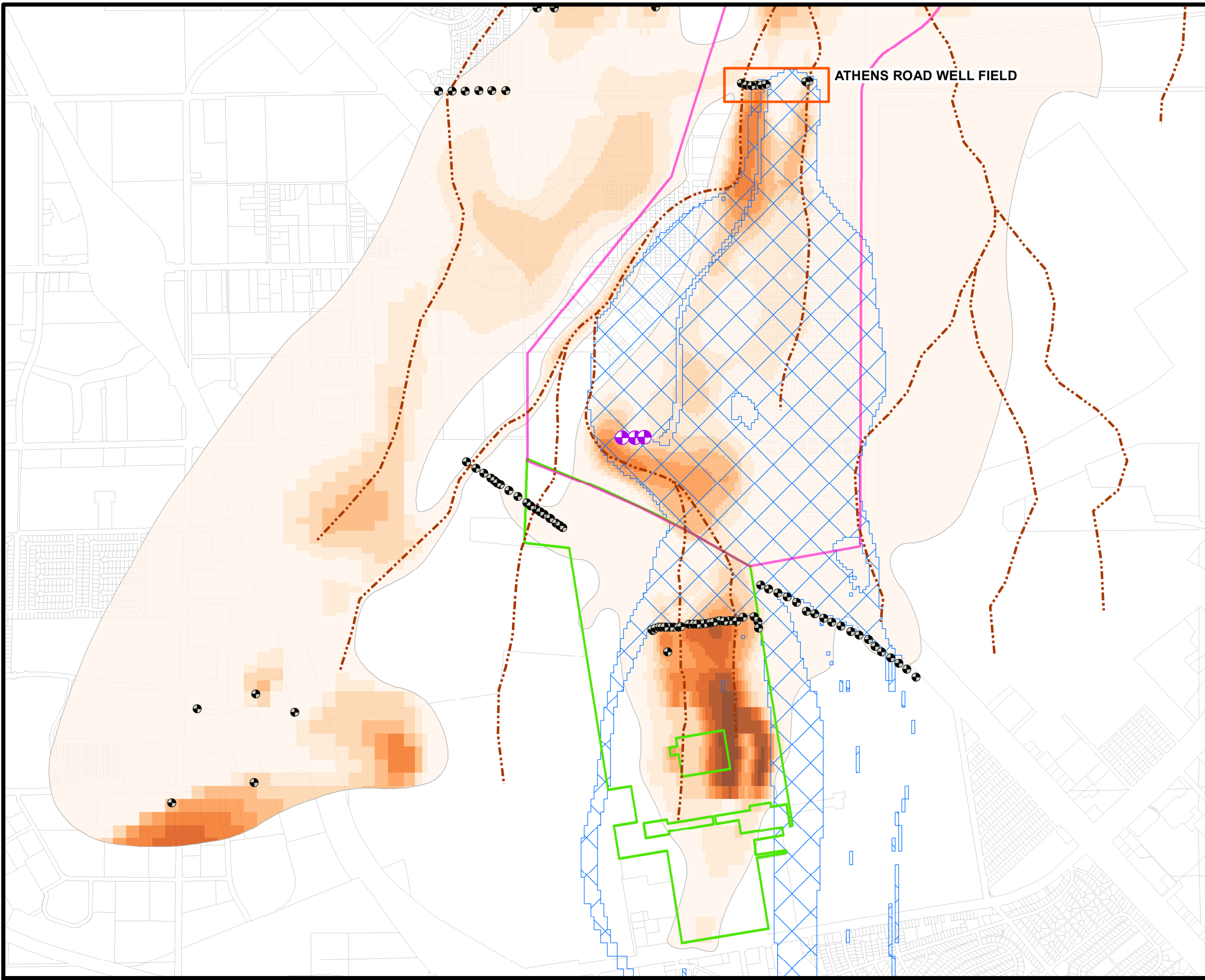


AWF SCENARIO: SUNSET ROAD WELLS
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-1d

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-1e-AWF_ParcelA.mxd

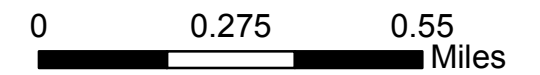


EXPLANATION

- Proposed Wells
- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
 - Athen Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

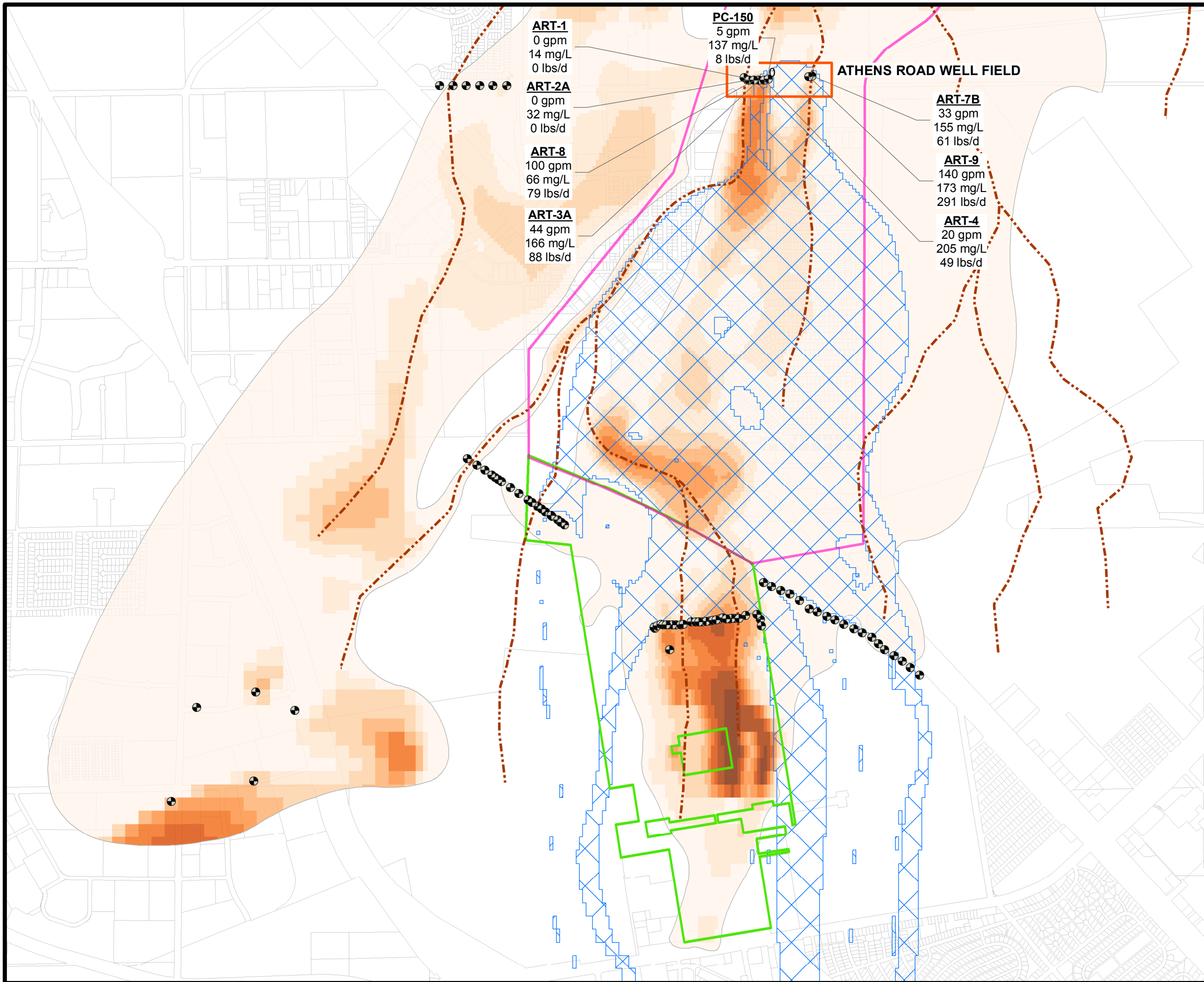


AWF SCENARIO: PARCEL A WELLS
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-1e

Path: H:\LePeromane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-1F-AWF_Recommended.mxd



ART-1
0 gpm
14 mg/L
0 lbs/d

ART-2A
0 gpm
32 mg/L
0 lbs/d

ART-8
100 gpm
66 mg/L
79 lbs/d

ART-3A
44 gpm
166 mg/L
88 lbs/d

PC-150
5 gpm
137 mg/L
8 lbs/d

ATHENS ROAD WELL FIELD

ART-7B
33 gpm
155 mg/L
61 lbs/d

ART-9
140 gpm
173 mg/L
291 lbs/d

ART-4
20 gpm
205 mg/L
49 lbs/d

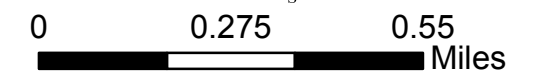
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
- ▨ Athens Road Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

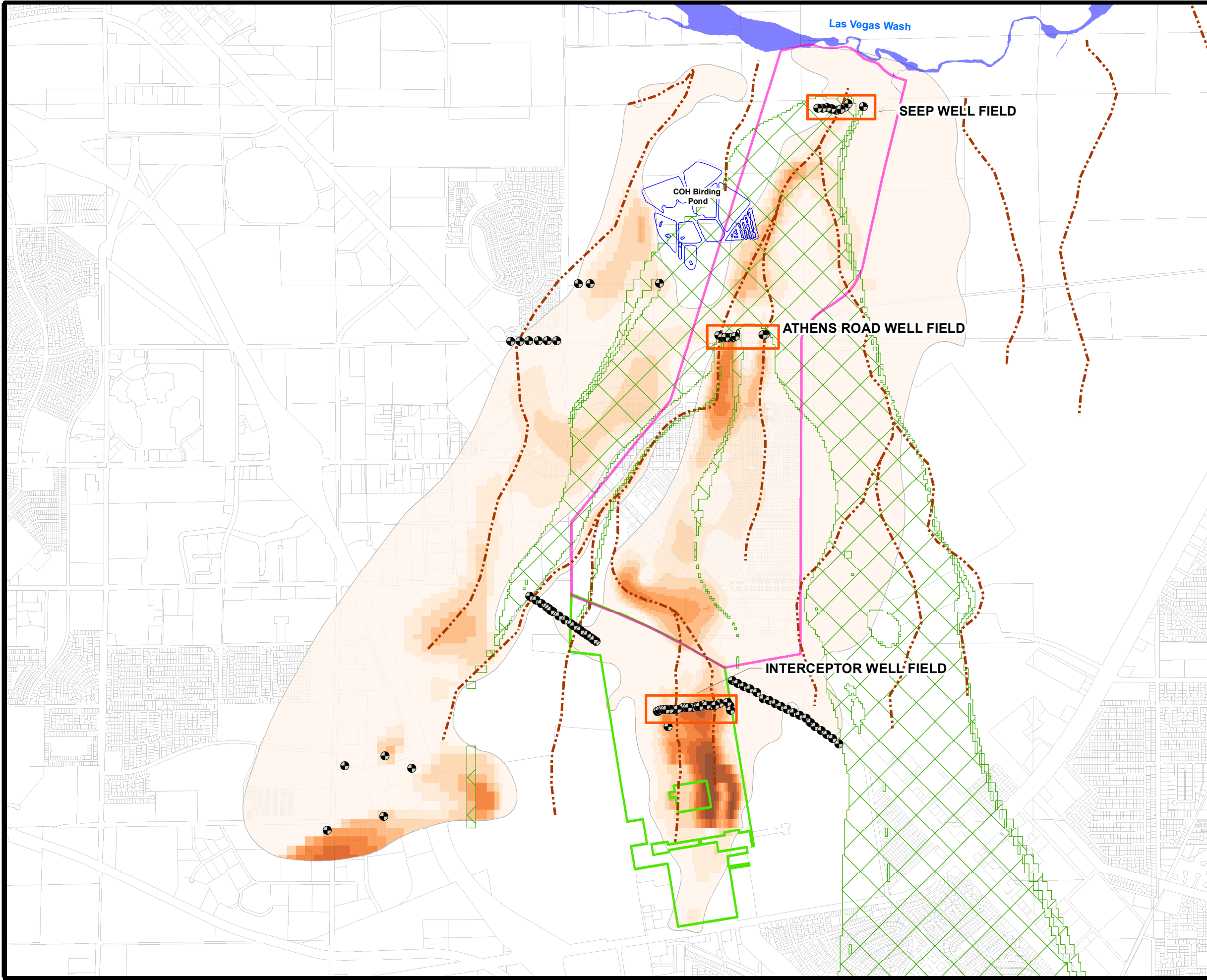
ART-1 - Well Name
8 gpm - Pumping Rate
14 mg/L - Perchlorate Concentration*
6 lbs/d - Instantaneous Mass Removal
* Concentrations estimated from interpolated plume map



AWF SCENARIO: RECOMMENDED
Nevada Environmental Response Trust Site
Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:
		D-1f

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\Fig-D-2a-SWF_2015Q2.mxd



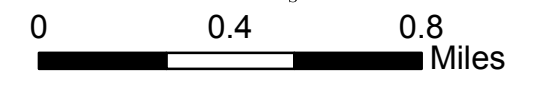
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone
- Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

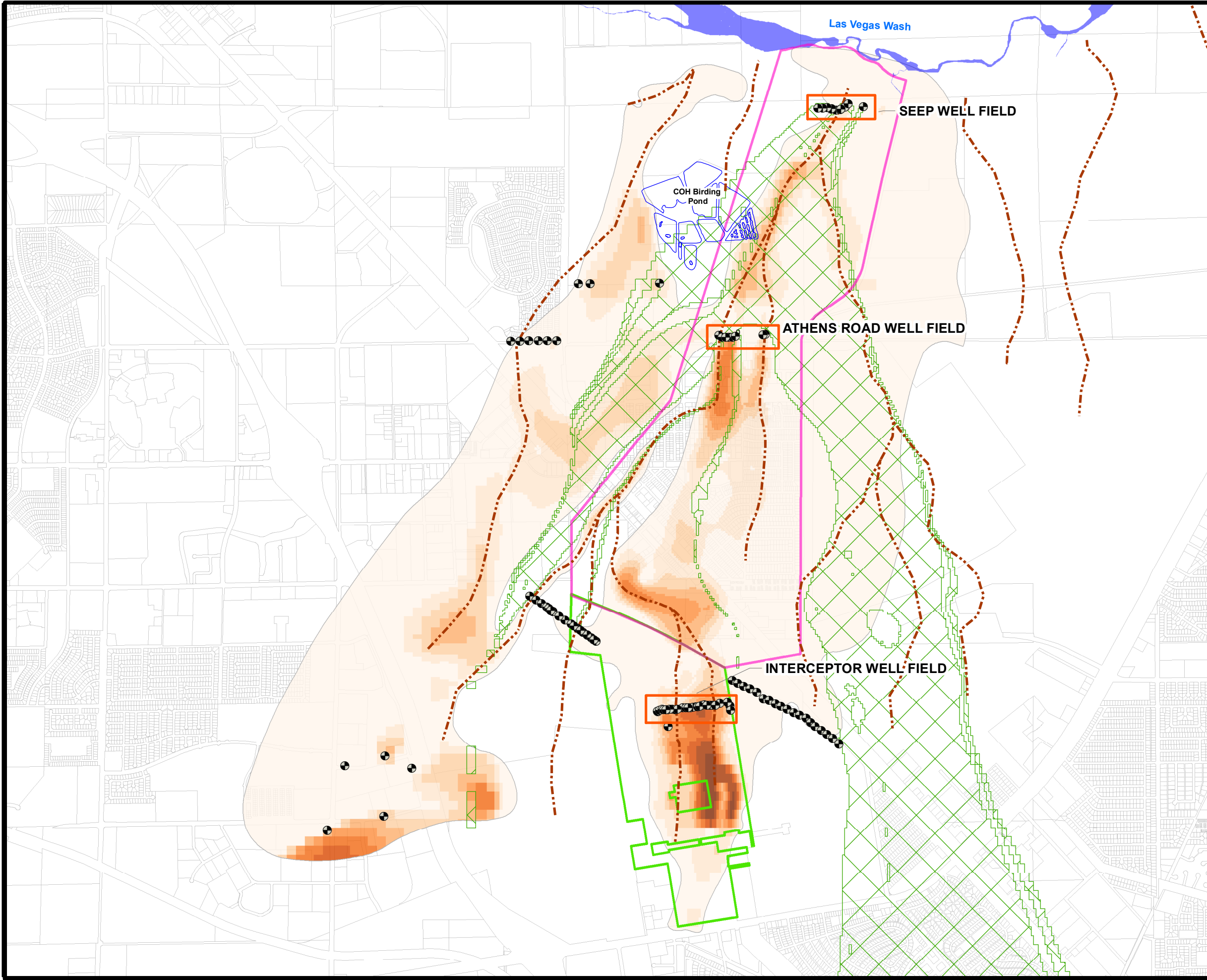
Birding Pond Water Captured = 59%



SWF SCENARIO: 2015Q2 PUMPING
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:
		D-2a

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-2b-SWF_20%_REDUCTION.mxd



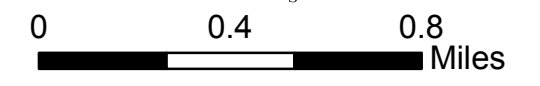
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- ▨ Capture Zone
- ▨ Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

Birding Pond Water Captured = 52%

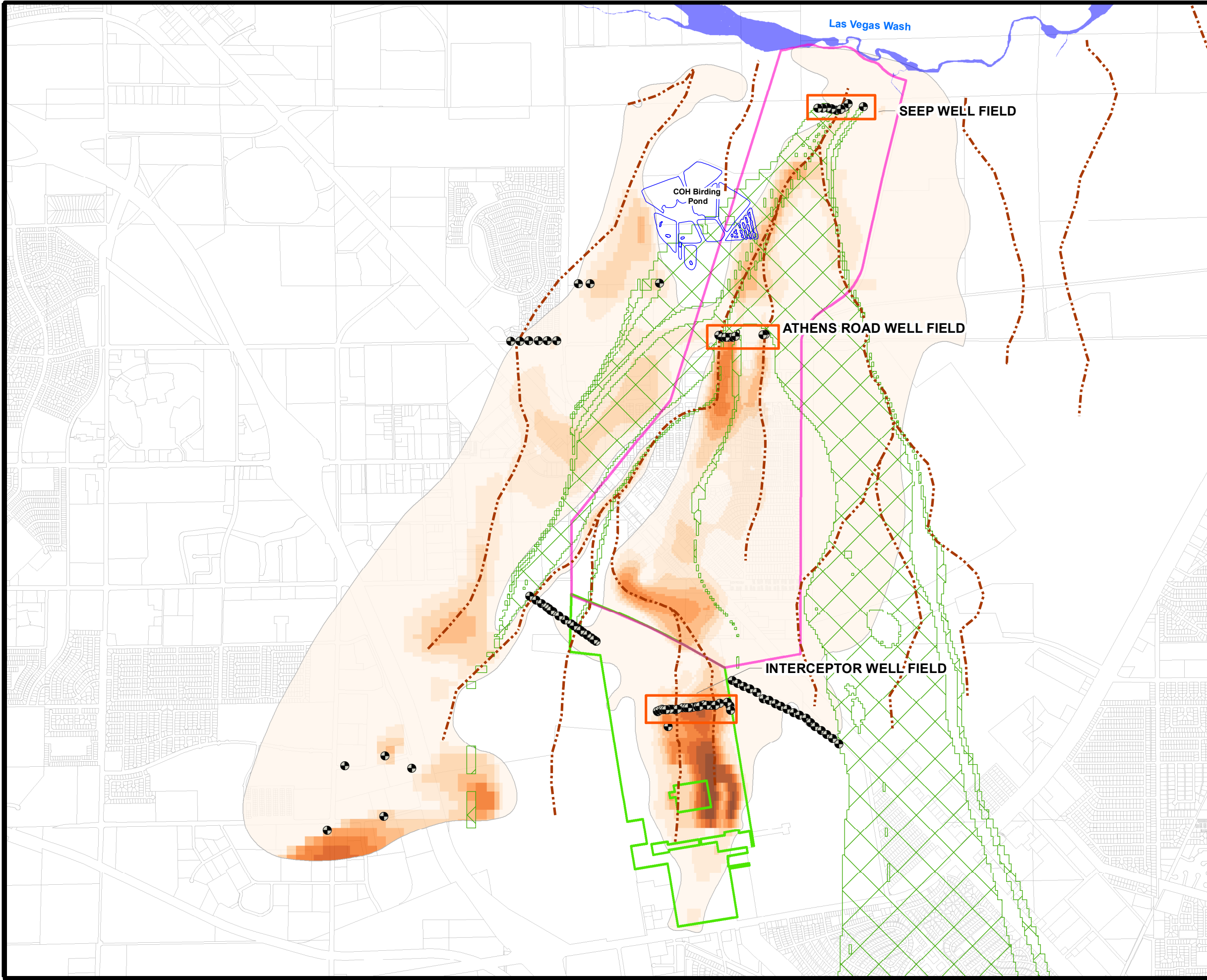


SWF SCENARIO: 20% REDUCTION
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-2b

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\Fig-D-2c-SWF_40%_REDUCTION.mxd



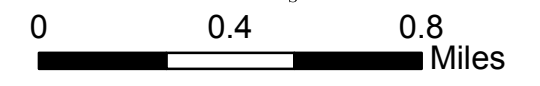
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- ▨ Capture Zone
- ▨ Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

Birding Pond Water Captured = 47%

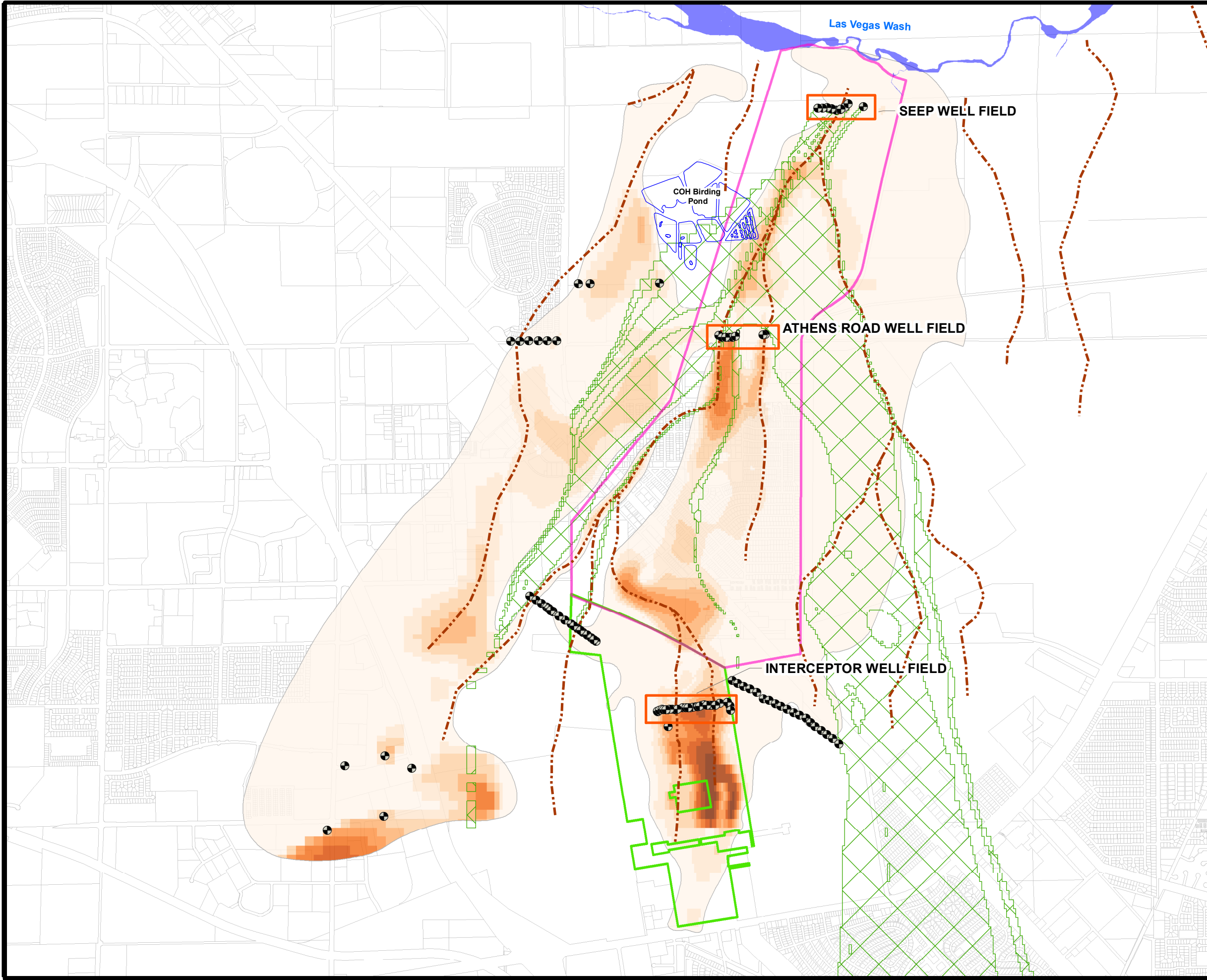


SWF SCENARIO: 40% REDUCTION
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-2c

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\Fig-D-2d-SWF_60%_REDUCTION.mxd



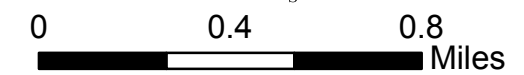
EXPLANATION

- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- ▨ Capture Zone
- ▨ Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

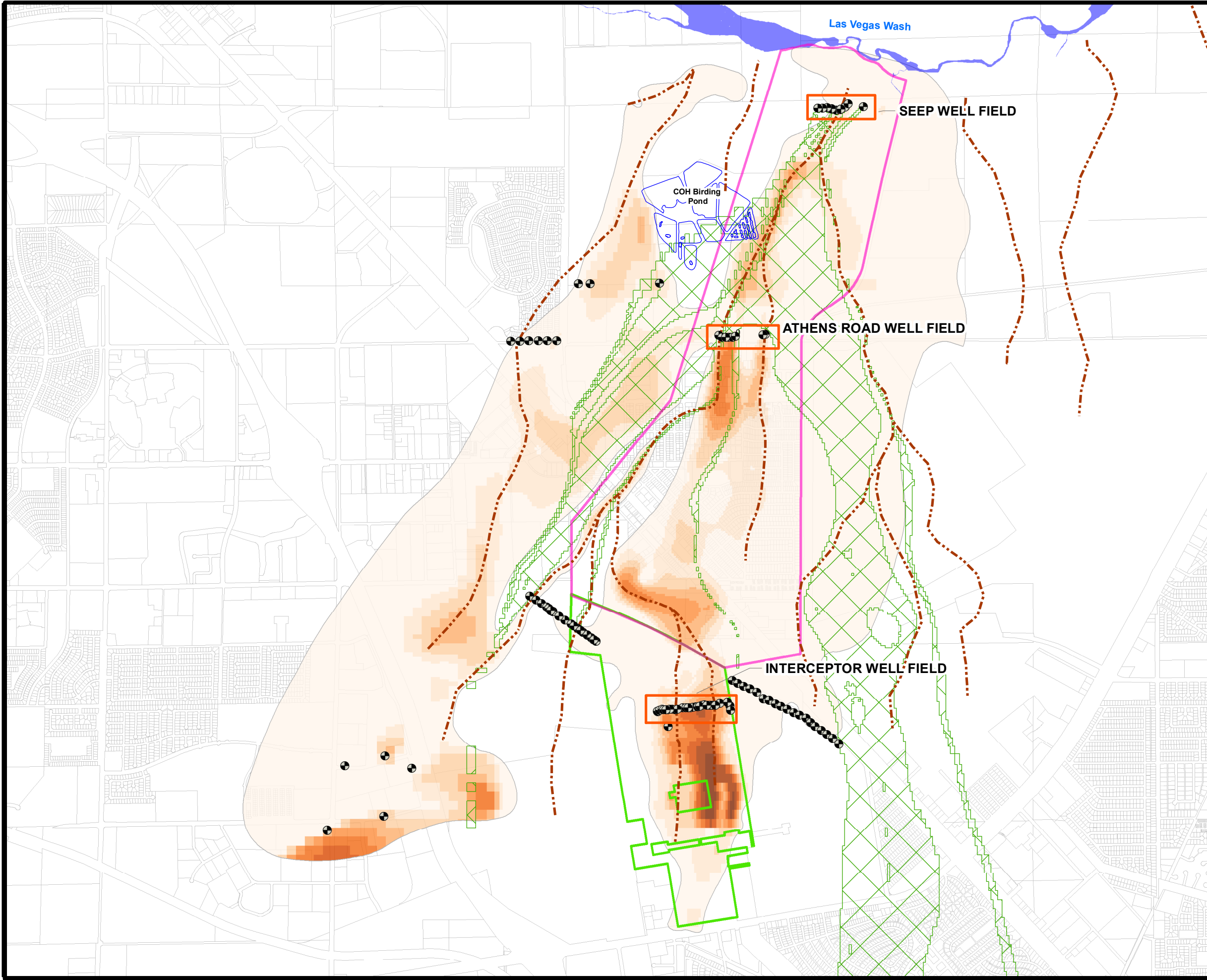
Birding Pond Water Captured = 43%



SWF SCENARIO: 60% REDUCTION
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\FigD-2e-SWF_80%_REDUCTION.mxd



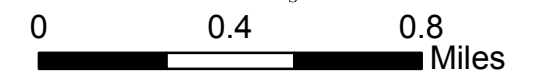
EXPLANATION

- Extraction Wells
- - - Paleochannels
- Downgradient Plume
- Site Boundary
- ▨ Capture Zone
- ▨ Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

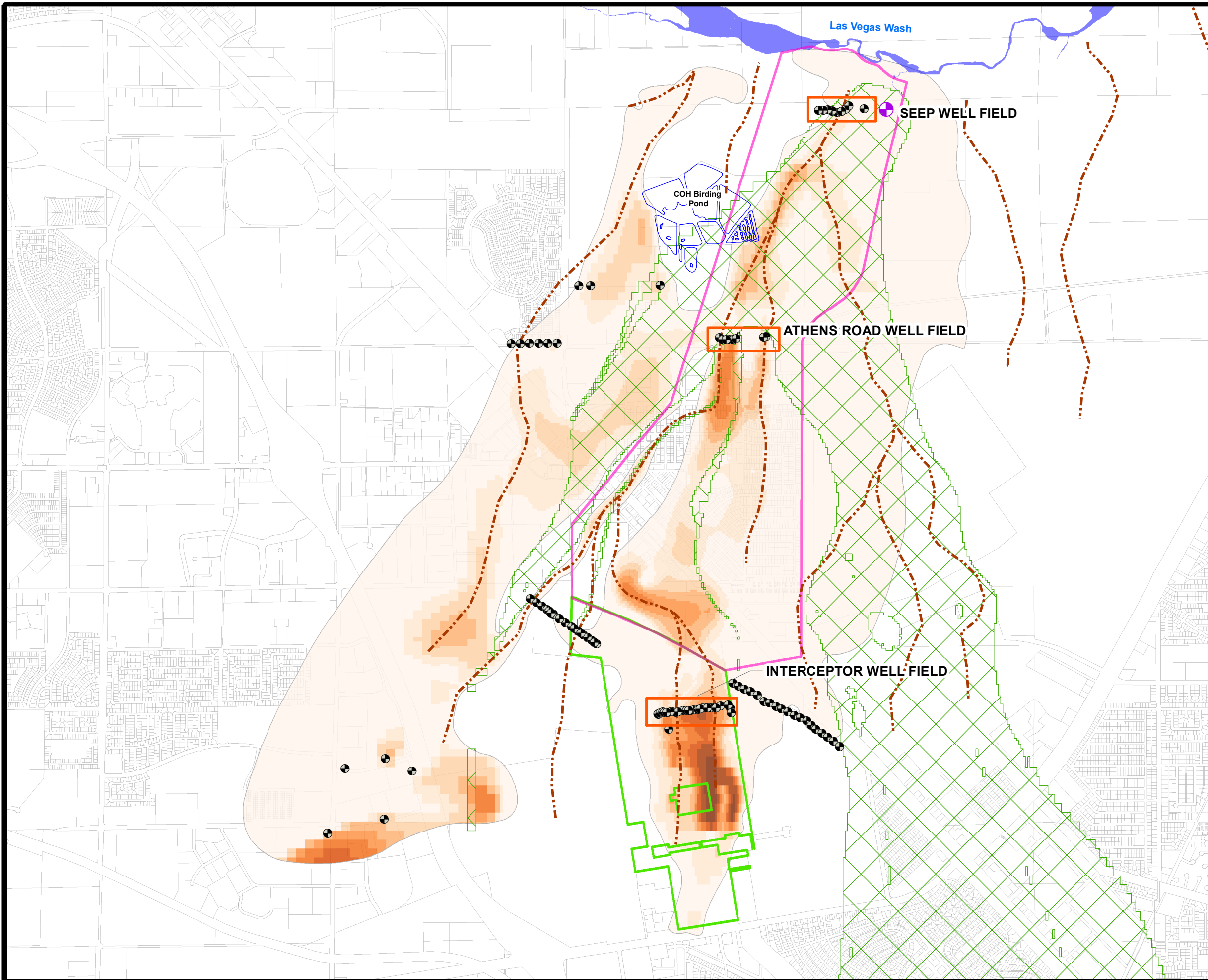
Birding Pond Water Captured = 22%



SWF SCENARIO: 80% REDUCTION
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

Path: H:\LePermane\NERT\GWETS\Continuous Optimization Program\2015 Year-End TM\Appendix DIGIS\Fig-D-2f-SWF_New Well.mxd



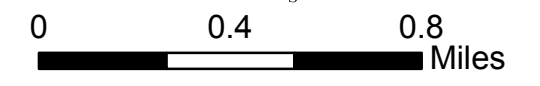
EXPLANATION

- Proposed Wells
- Extraction Wells
- Paleochannels
- Downgradient Plume
- Site Boundary
- Capture Zone**
- Seep Well Field

Plume Mass (lbs)

- 0 - 20
- 20 - 62
- 62 - 138
- 138 - 256
- 256 - 416
- 416 - 747
- 747 - 1,368
- 1,368 - 2,395
- 2,396 - 4,792

Birding Pond Water Captured = 46%



SWF SCENARIO: NEW WELL
 Nevada Environmental Response Trust Site
 Henderson, Nevada

Date: 1/22/2016	Contract Number: 21-38800B	Figure
Drafter: AS	Approved:	Revised:

D-2f