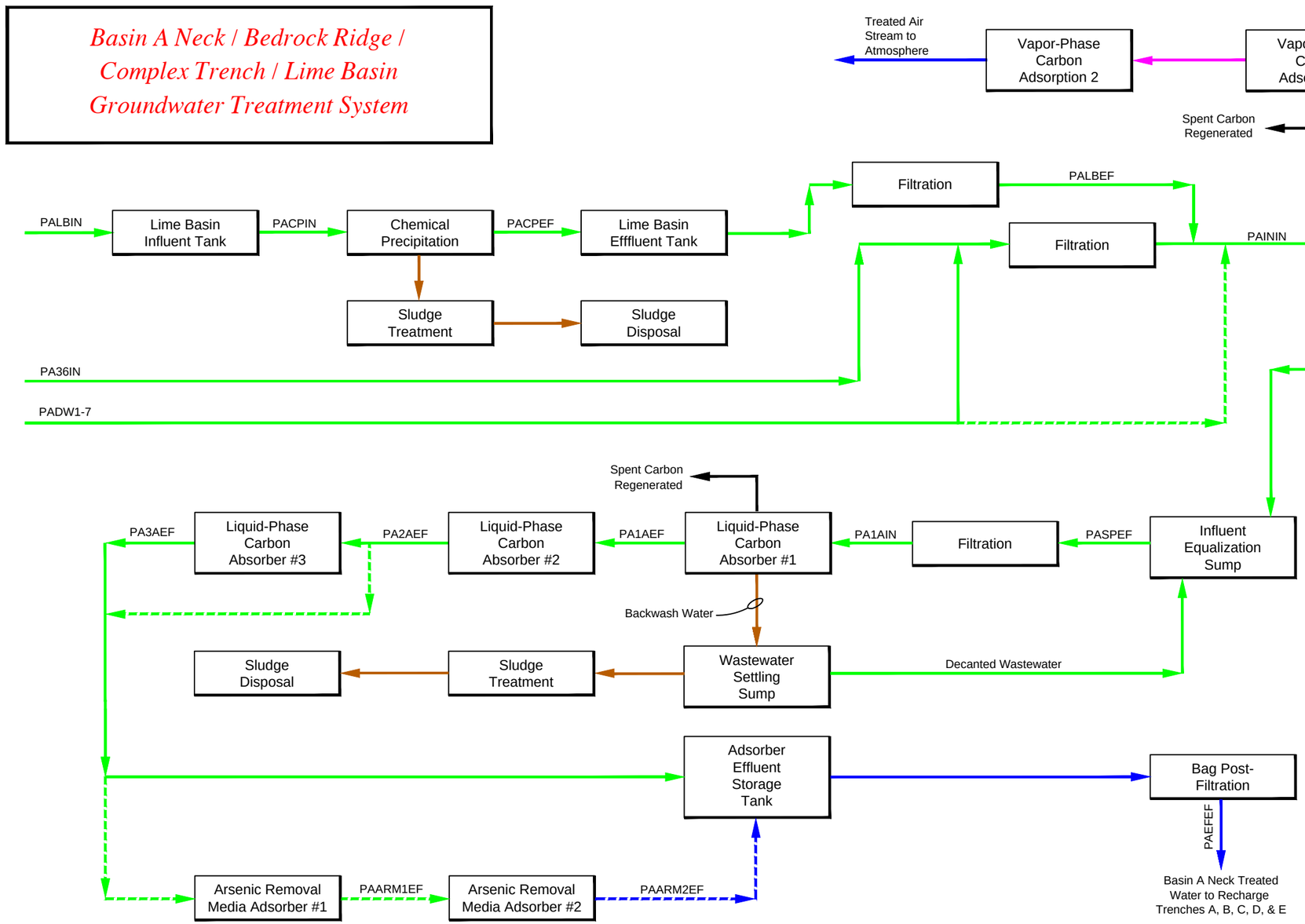
Appendix D: BANS, BRES, CADT, and LB Figures

Basin A Neck / Bedrock Ridge / Complex Trench / Lime Basin Groundwater Treatment System



BANS Water Quality Site ID Descriptions

PA36IN =	BRES/COMPLEX TRENCH EXTRACTION WELLS COMBINED FLOW
PADW1-7 =	BANS EXTRACTION WELLS 1-7 COMBINED FLOW
PACPIN =	LIME BASINS CHEMICAL PRECIPITATION INFLUENT
PACPEF =	LIME BASINS CHEMICAL PRECIPITATION EFFLUENT
PALBIN =	LIME BASINS EXTRACTION WELLS 5-10 COMBINED FLOW
PALBEF =	T-103 EFFLUENT
PAININ =	TREATMENT PLANT INFLUENT
PAASEF =	AIR STRIPPER EFFLUENT
PASPEF =	INFLUENT SUMP EFFLUENT
PA1AIN =	LEAD ADSORBER INFLUENT
PA1AEF =	LEAD ADSORBER EFFLUENT
PA2AEF =	MIDDLE ADSORBER EFFLUENT
PA3AEF =	POLISH ADSORBER EFFLUENT
PAARM1EF =	ARSENIC REMOVAL MEDIA LEAD ADSORBER EFFLUENT
PAARM2EF =	ARSENIC REMOVAL MEDIA POLISH ADSORBER EFFLUENT
PAEFEF =	TREATMENT PLANT EFFLUENT

Legend

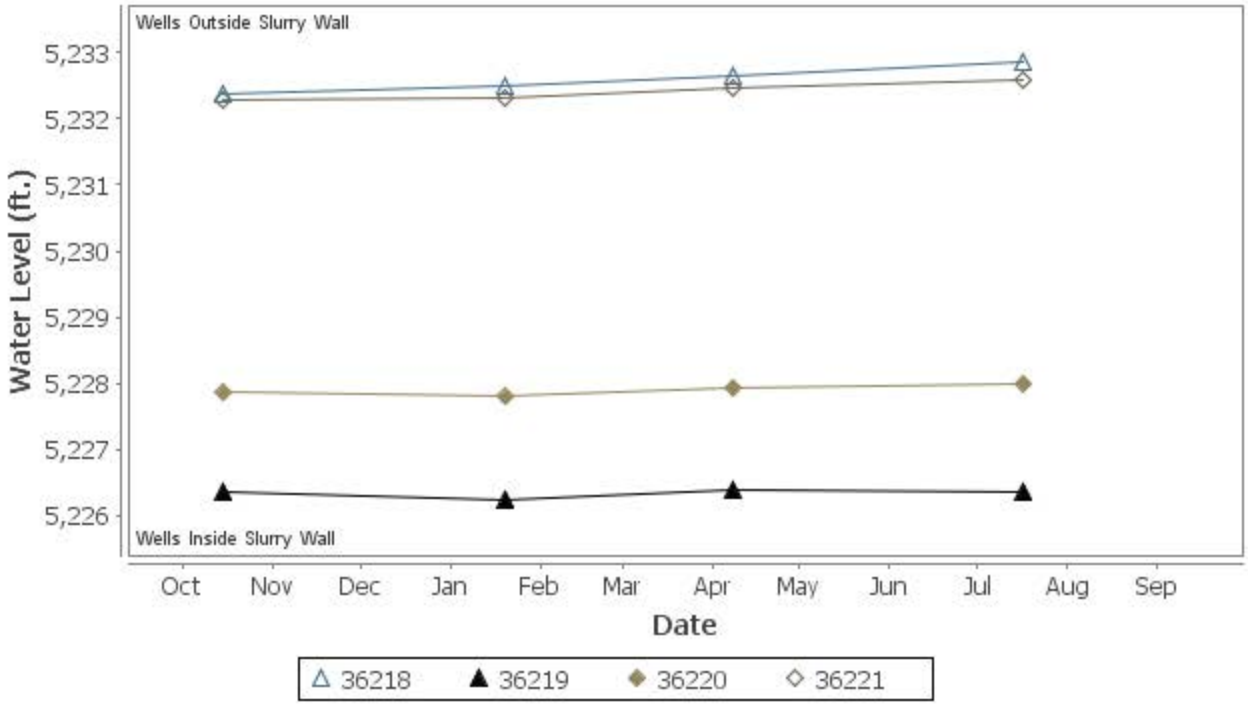
- Clean Treated Water or Air
- Untreated or Partially Treated Water
- Backwash Water or Sludge
- Untreated or Partially Treated Air

Figure D-1. Basin A Neck Treatment System Process Diagram

Drawn By: J. Thompson	Groundwater Treatment System FY15
Date: 2/27/2015	
Scale:	D-1
Prepared For: R. Charles	
Approved	RMITS
File Location: M:\projects\oars\oar14\cad_drawings\Flow14_2-27-15.dwg	

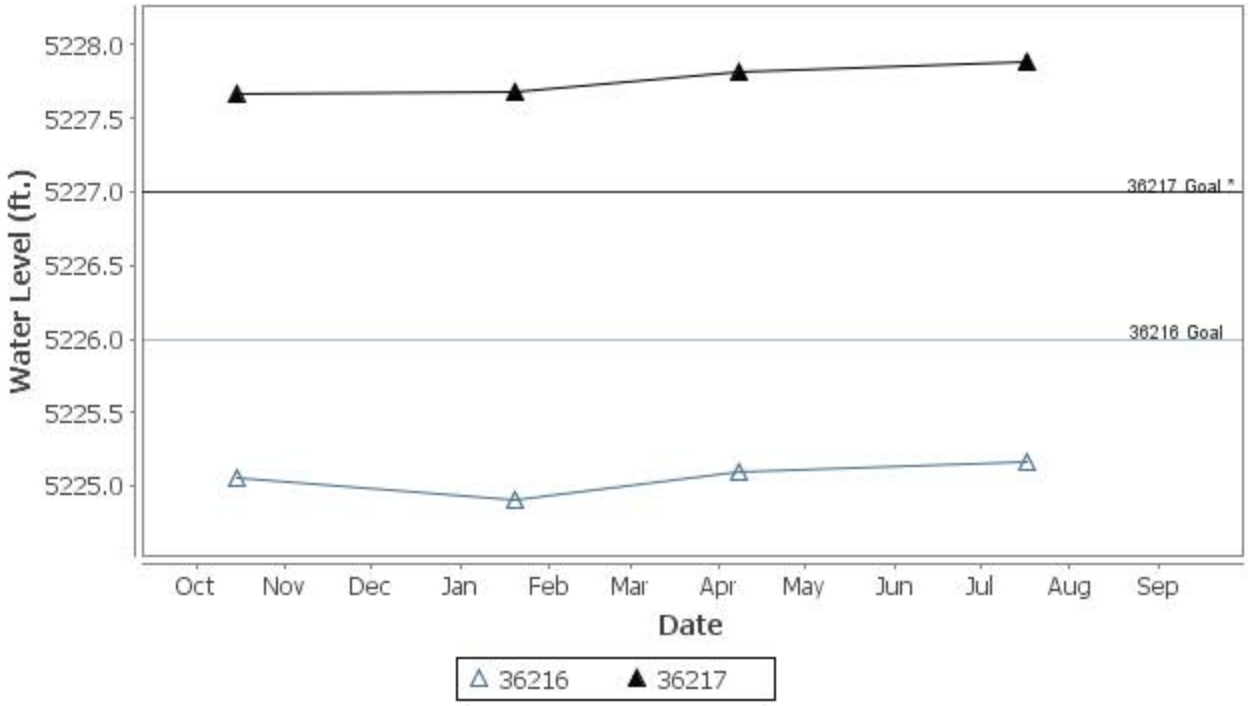
Complex Army Disposal Trenches Paired Wells

2013-10-01 to 2014-09-30



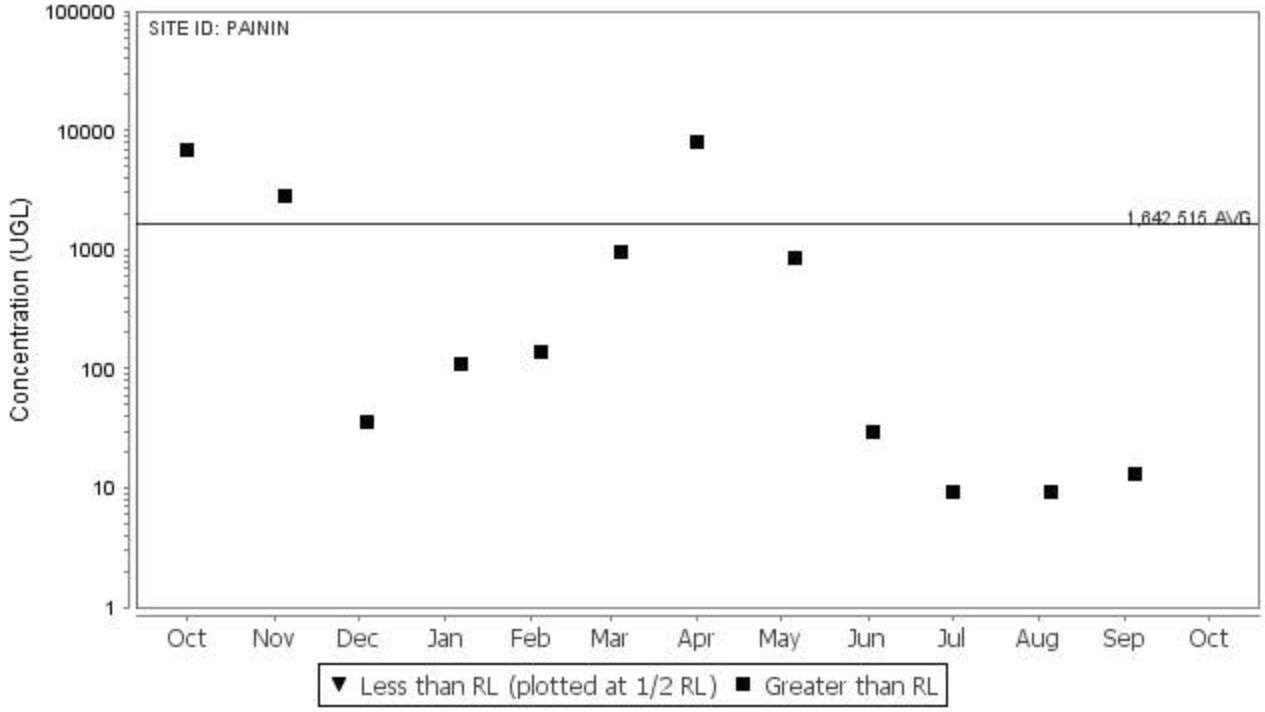
Complex Army Disposal Trenches Compliance Wells

2013-10-01 to 2014-09-30



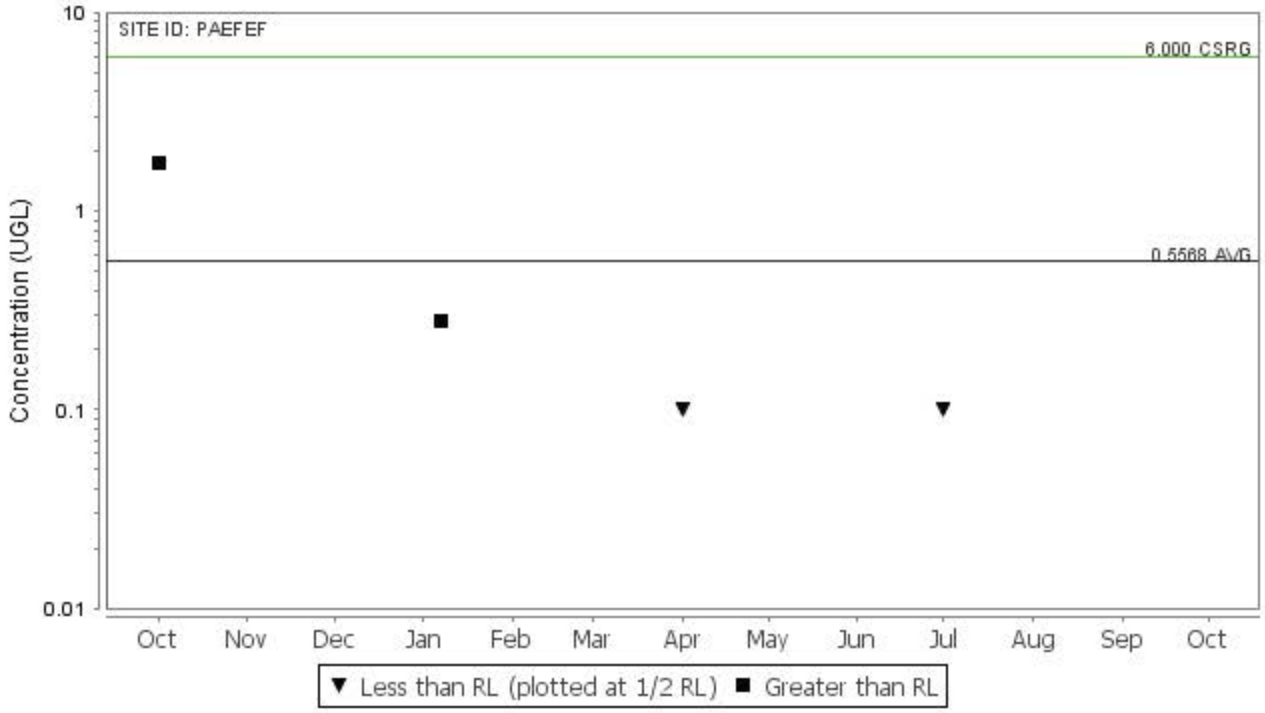
Basin A Neck Treatment Plant Influent - CHCL3

2013-10-01 to 2014-09-30



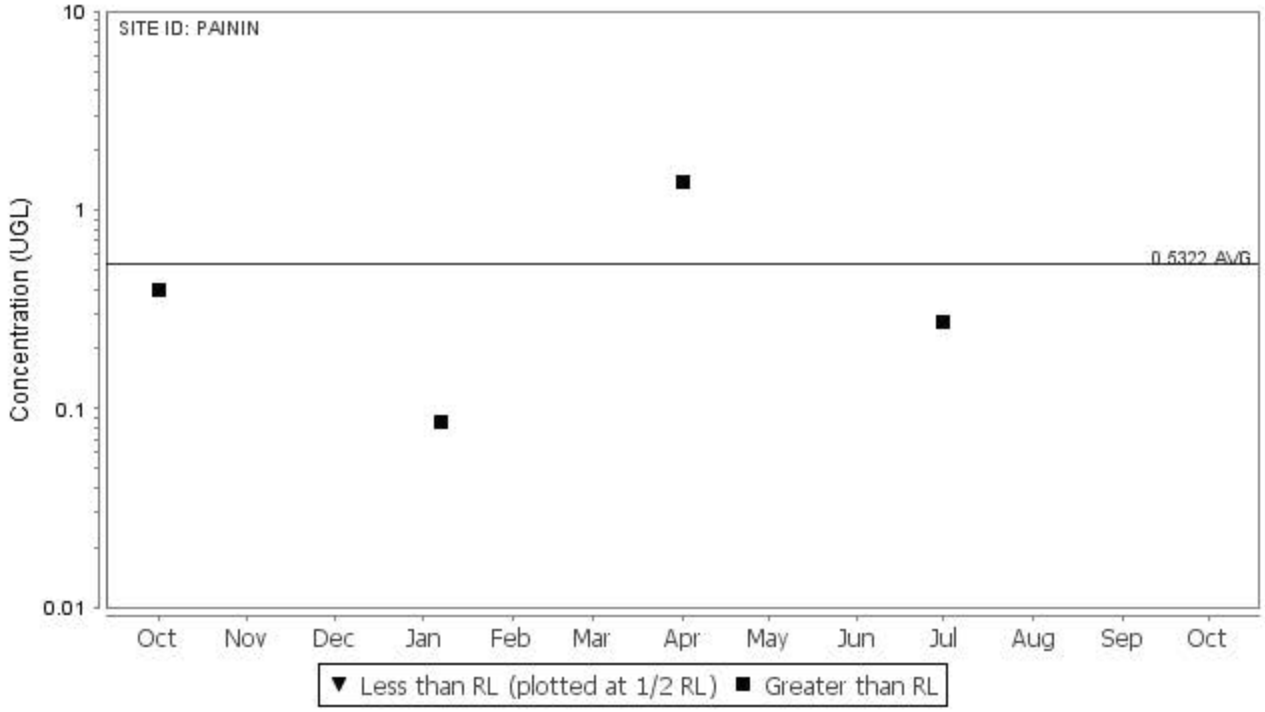
Basin A Neck Treatment Plant Effluent - CHCL3

2013-10-01 to 2014-09-30



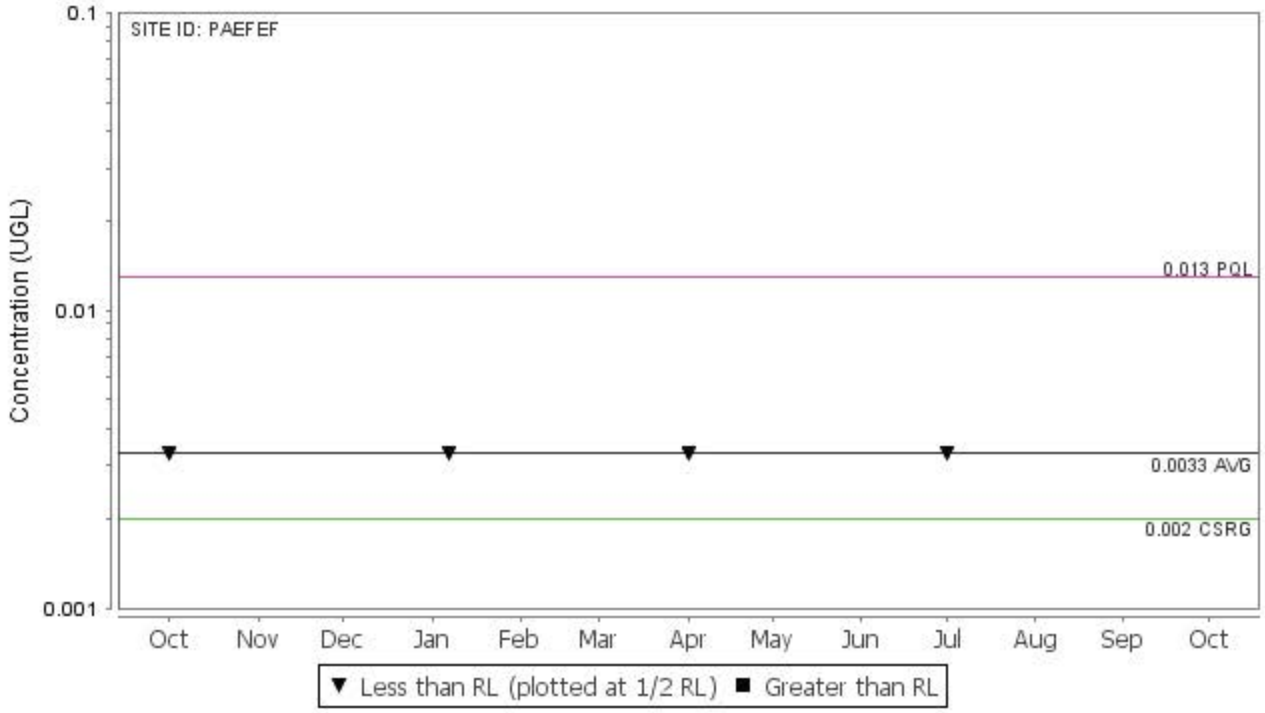
Basin A Neck Treatment Plant Influent - DLDRN

2013-10-01 to 2014-09-30



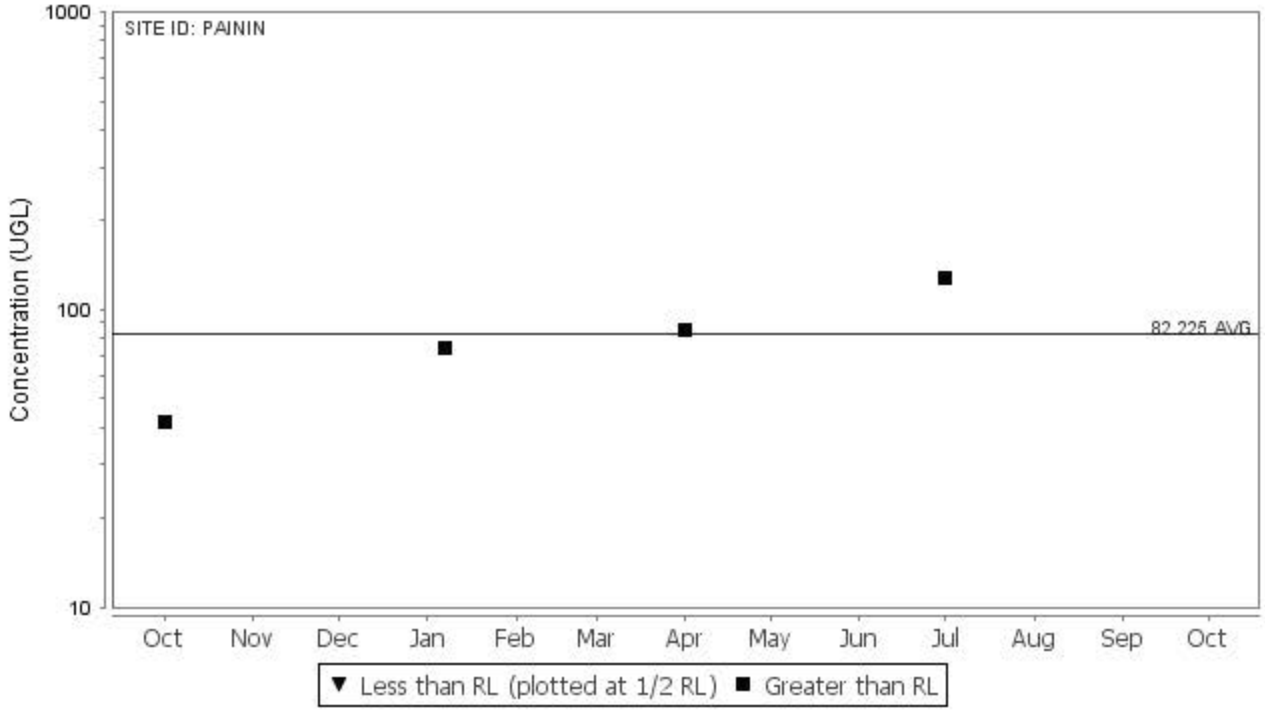
Basin A Neck Treatment Plant Effluent - DLDRN

2013-10-01 to 2014-09-30



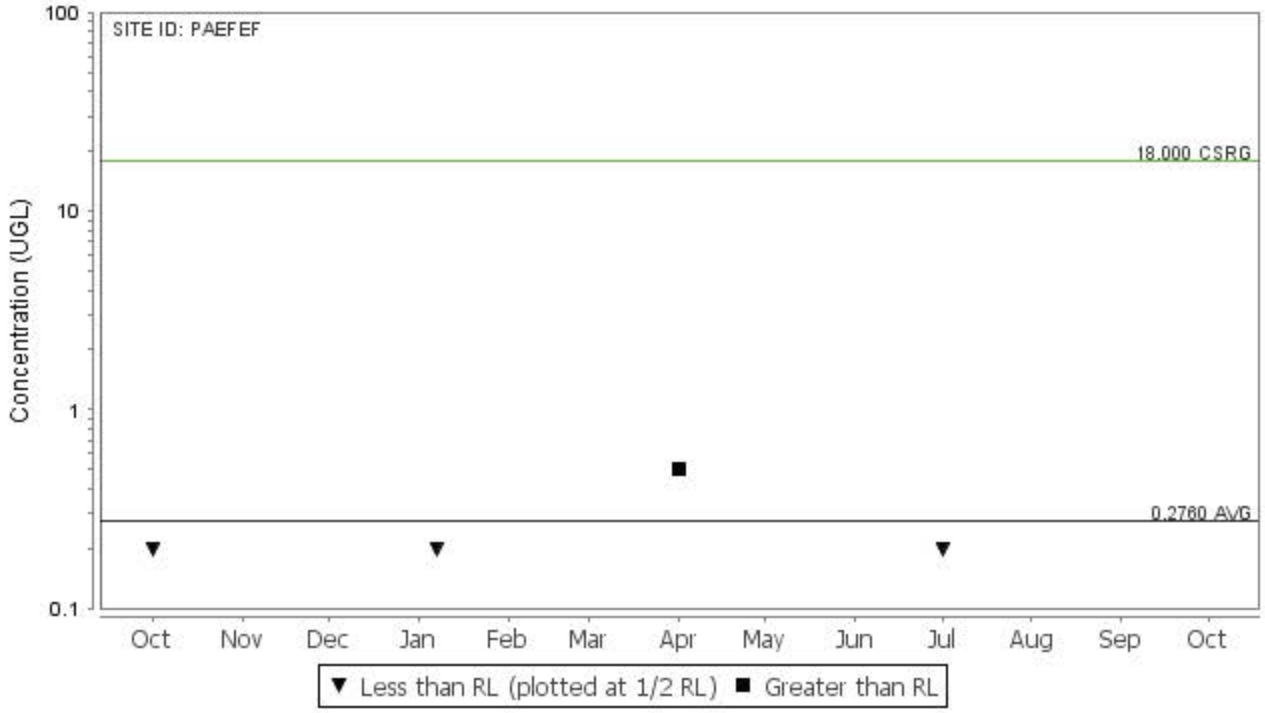
Basin A Neck Treatment Plant Influent - DITH

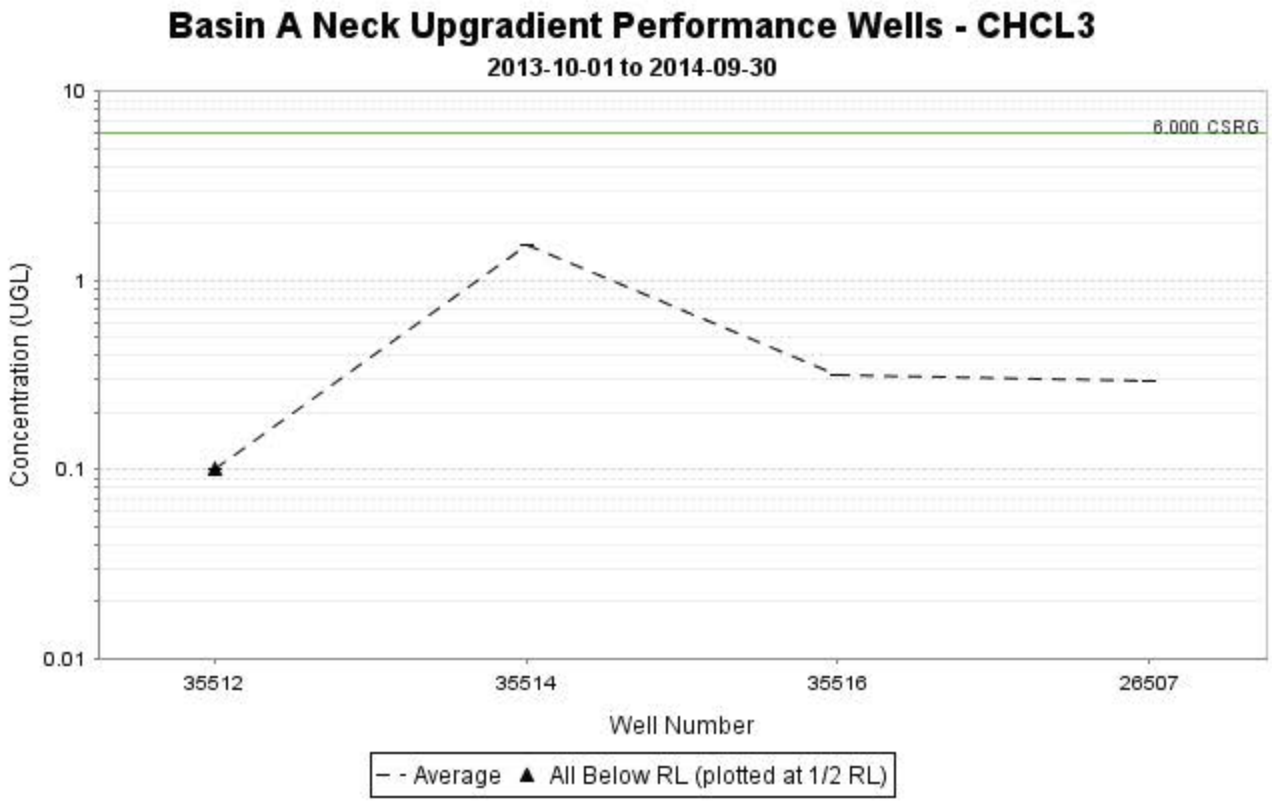
2013-10-01 to 2014-09-30

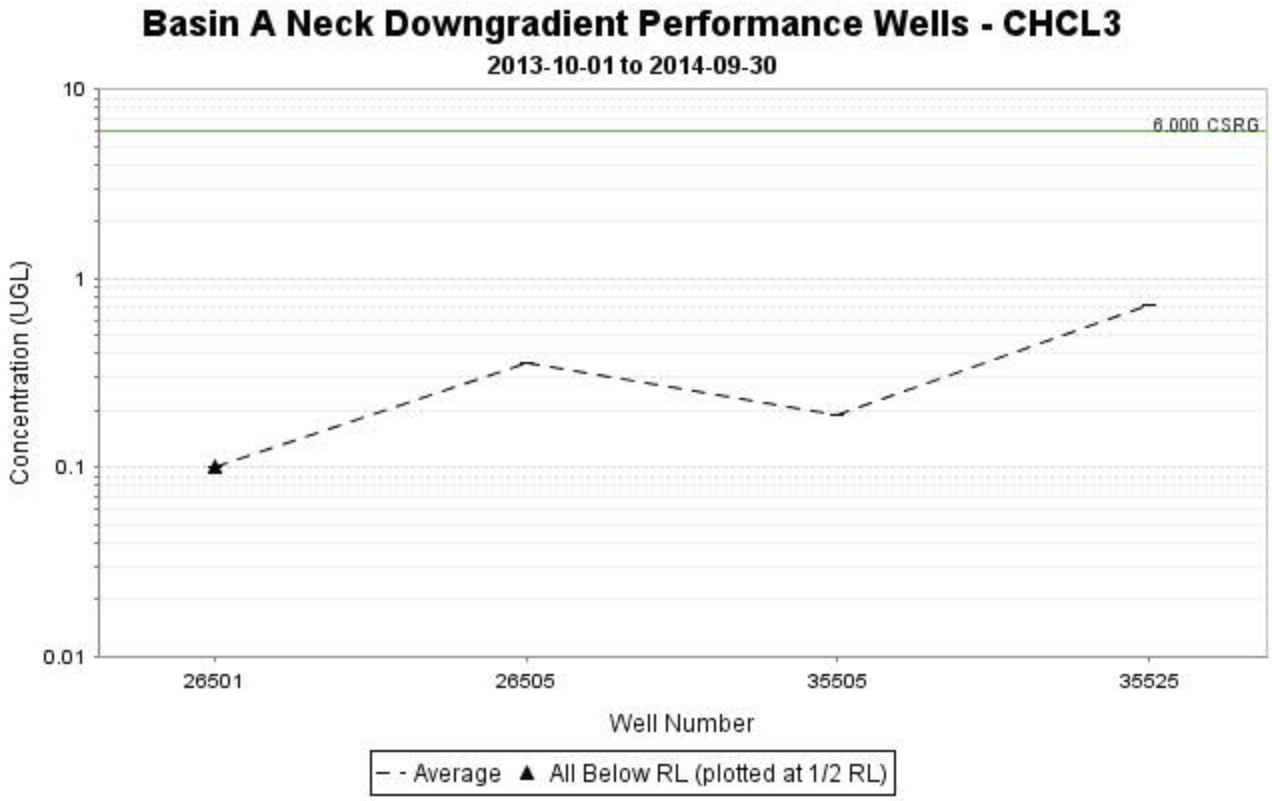


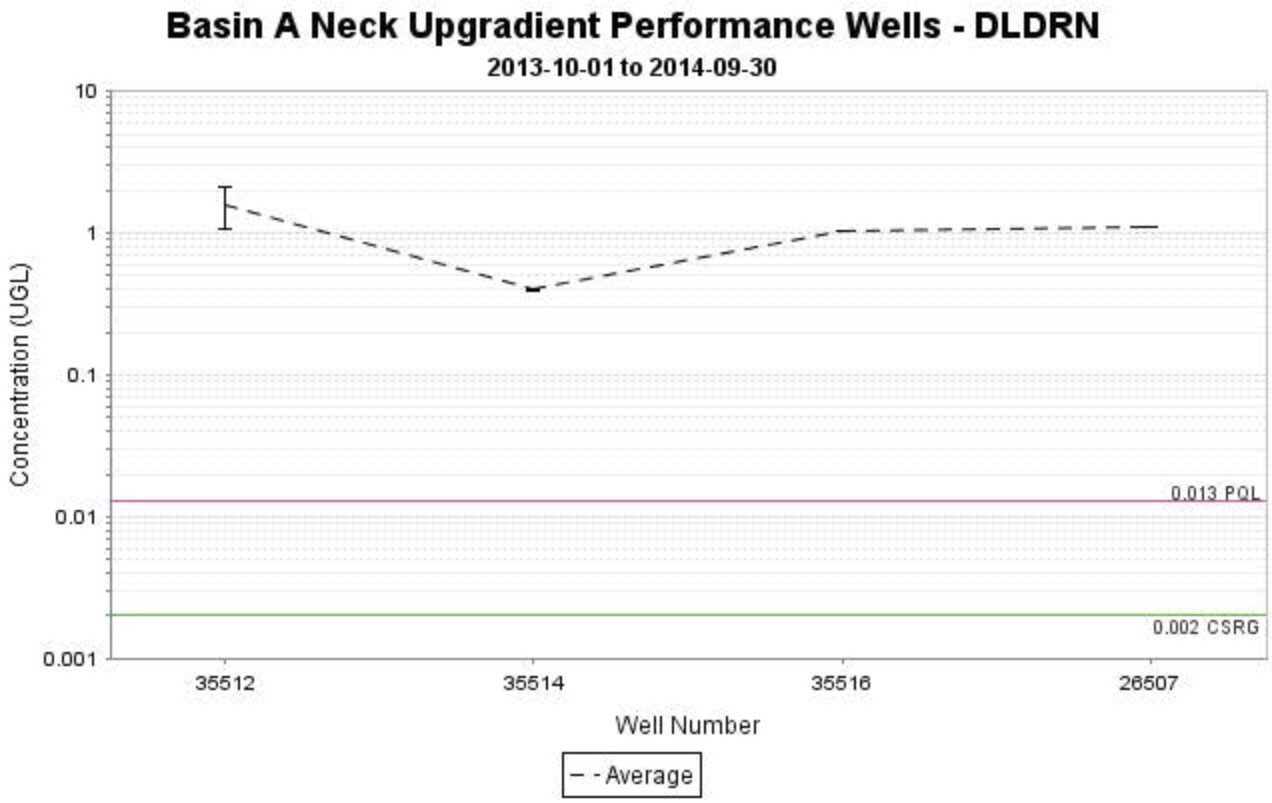
Basin A Neck Treatment Plant Effluent - DITH

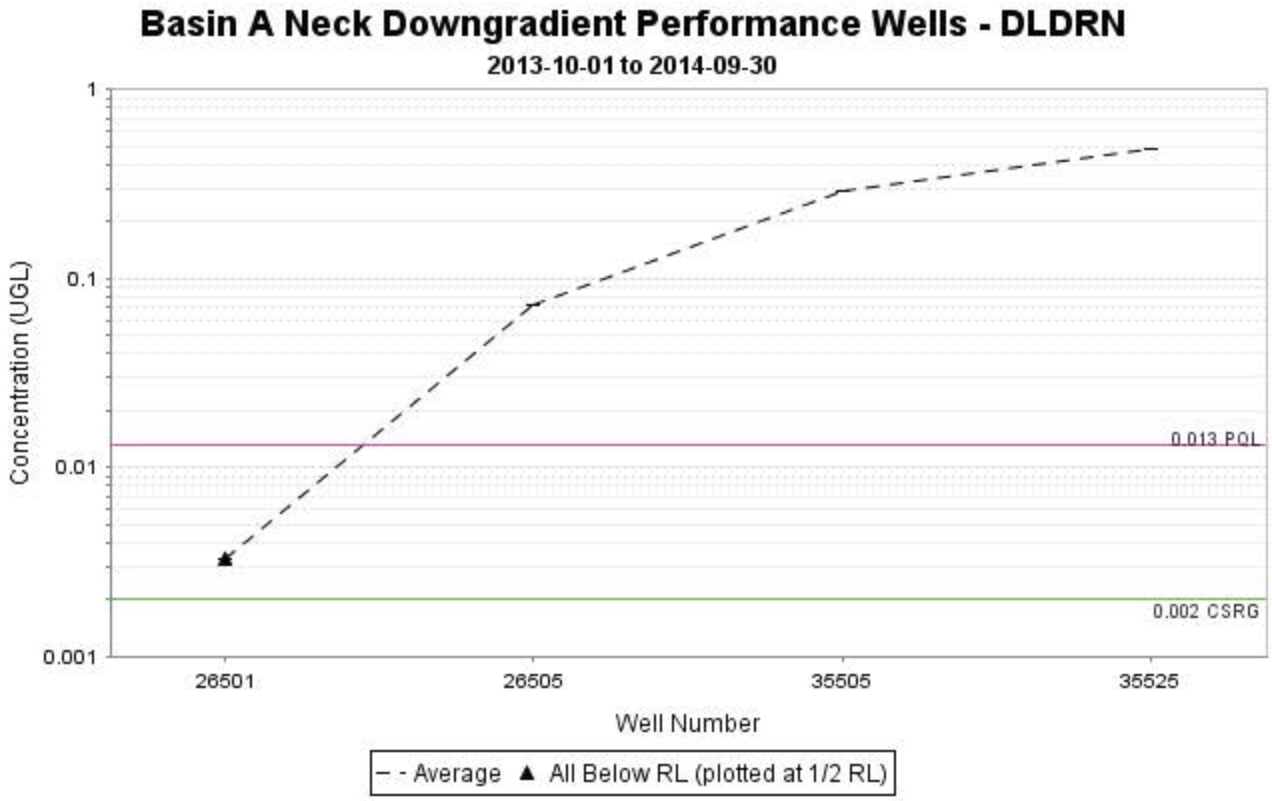
2013-10-01 to 2014-09-30

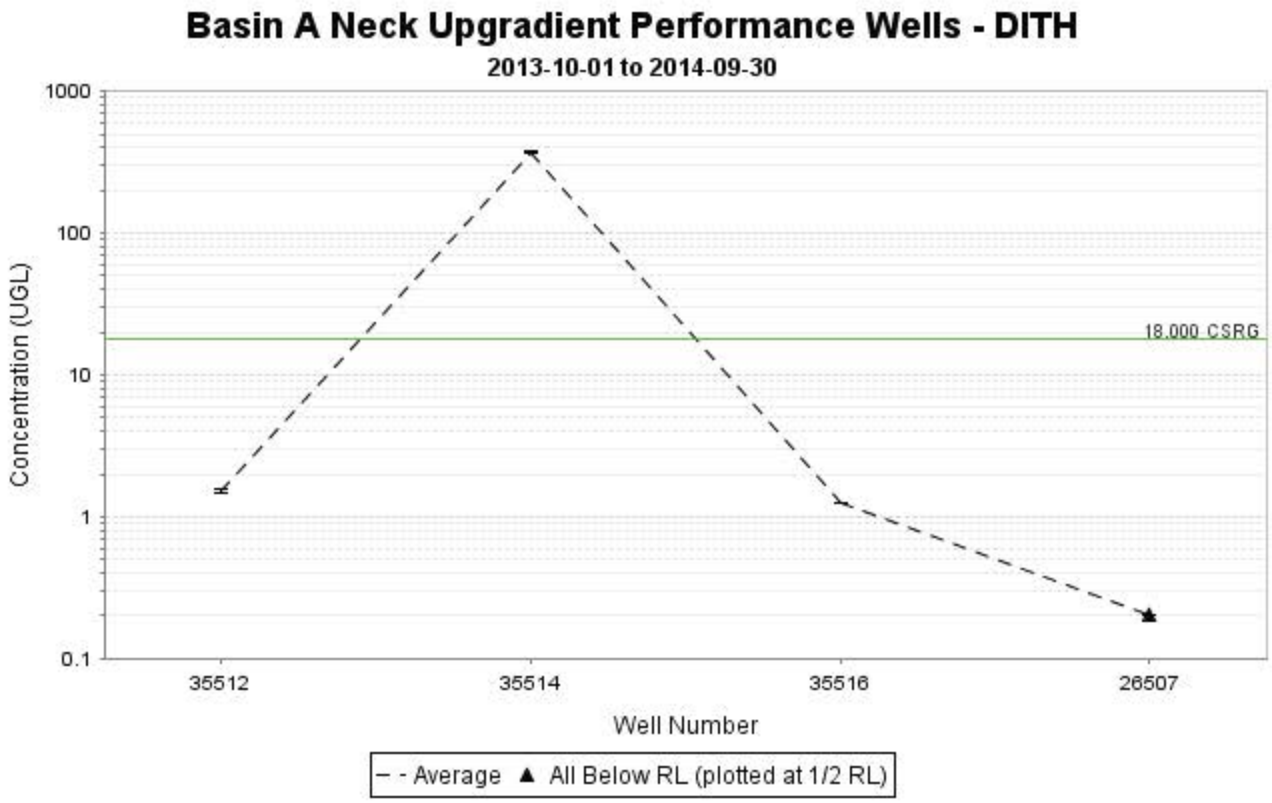


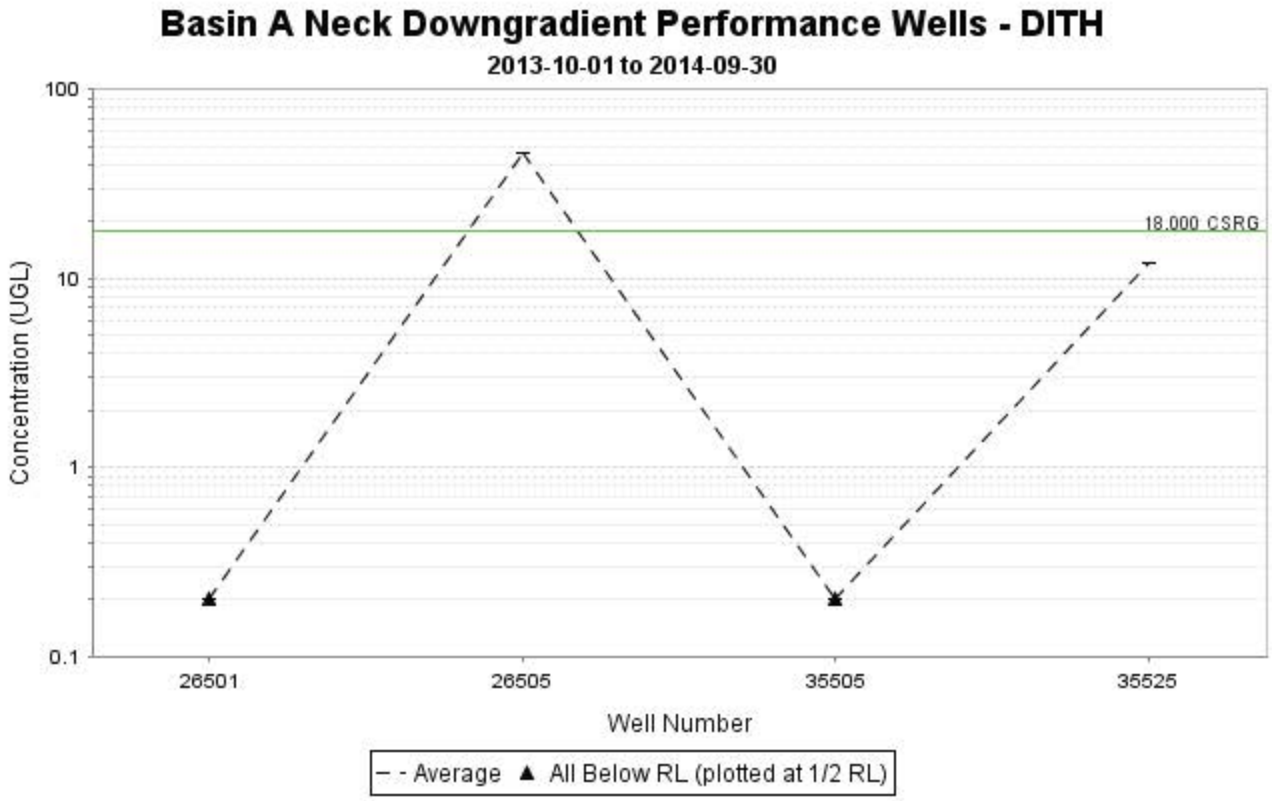

Basin A Neck Upgradient Performance Wells - CHCL3
2013-10-01 to 2014-09-30
6.000 CSRG
Concentration (UGL)
10
1
0.1
0.01
35512
35514
35516
26507
Well Number
Average
All Below RL (plotted at 1/2 RL)

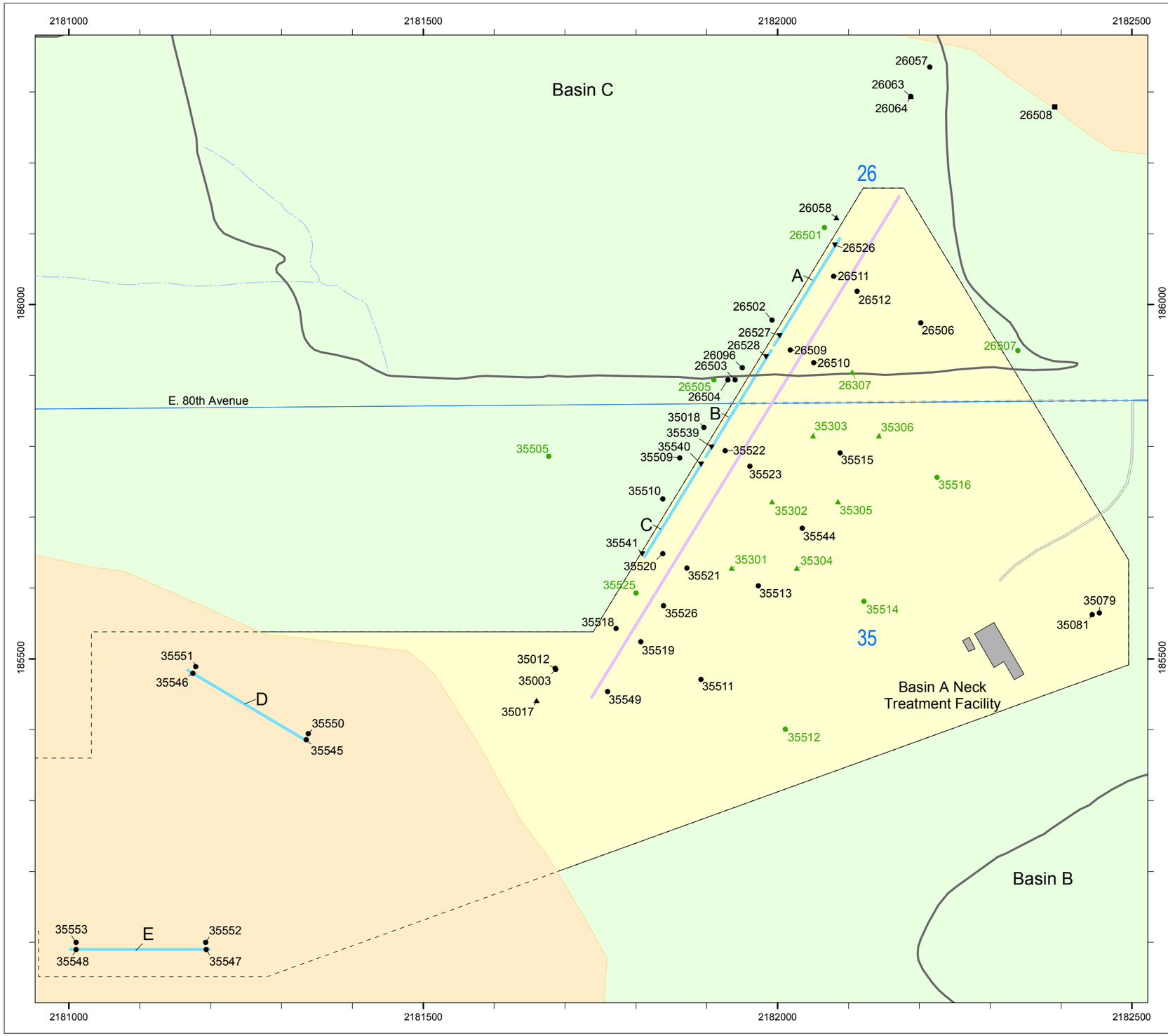

Basin A Neck Downgradient Performance Wells - CHCL3
2013-10-01 to 2014-09-30
6.000 CSRG
Concentration (UGL)
10
1
0.1
0.01
26501
26505
35505
35525
Well Number
Average
All Below RL (plotted at 1/2 RL)


Basin A Neck Upgradient Performance Wells - DLDRN
2013-10-01 to 2014-09-30
Concentration (UGL)
10
1
0.1
0.01
0.001
0.013 PQL
0.002 CSRG
35512
35514
35516
26507
Well Number
Average


Basin A Neck Downgradient Performance Wells - DLDRN
2013-10-01 to 2014-09-30
Concentration (UGL)
1
0.1
0.01
0.001
0.013 PQL
0.002 CSRG
26501
26505
35505
35525
Well Number
Average
All Below RL (plotted at 1/2 RL)


Basin A Neck Upgradient Performance Wells - DITH
2013-10-01 to 2014-09-30
1000
100
10
1
0.1
Concentration (UGL)
18,000 CSRG
35512
35514
35516
26507
Well Number
Average
All Below RL (plotted at 1/2 RL)


Basin A Neck Downgradient Performance Wells - DITH
2013-10-01 to 2014-09-30
100
10
1
0.1
Concentration (UGL)
18,000 CSRG
26501
26505
35505
35525
Well Number
Average
All Below RL (plotted at 1/2 RL)



FY14 Basin A Neck Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Water Quality Wells
- Performance Extraction Wells

Monitoring Wells

- Confined Flow System
- Unconfined Flow System
- Questionable Unconfined Flow System
- Questionable Flow System
- Slurry Walls
- Recharge Trenches
- Ditches
- Section Lines
- Paved Roads
- Unimproved Roads
- Buildings
- Unsaturated Alluvium (Developed using summer 2014 data)
- USFWS Managed Area
- Army Maintained Area
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)

N

0 75 150
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

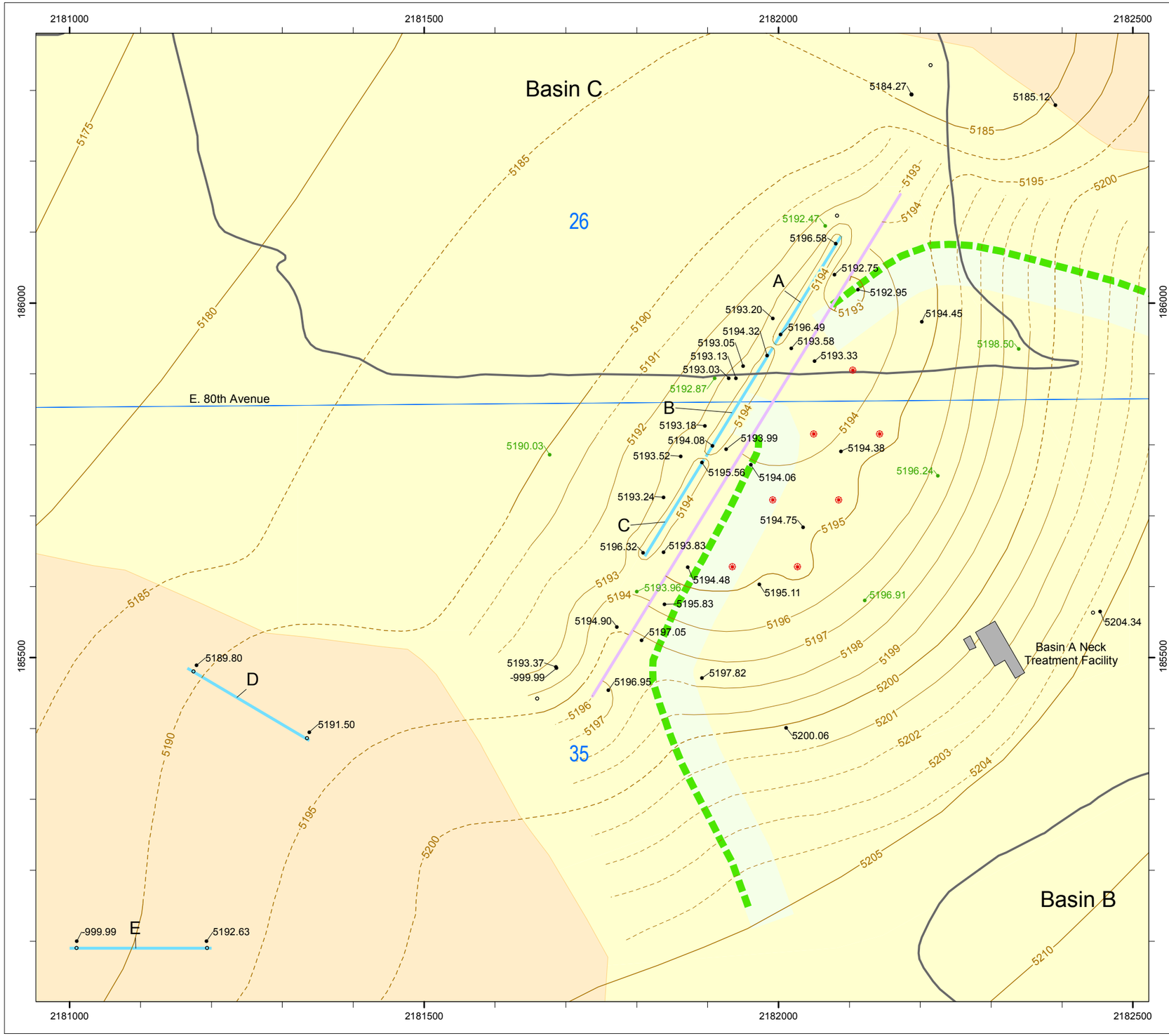
Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-9

Army/Shell GIS

9/10/2015 RMITS

M:\projects\oars\oar14\mxds\ban14_well_location.mxd



FY14 4th Quarter Groundwater Elevation Contours of the Unconfined Aquifer Basin A Neck

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Capture Zone
- Buildings
- Section Lines
- Slurry Walls
- Recharge Trenches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Paved Roads
- Unimproved Roads

Measured Wells Used for Contouring with Water Elevations (-999.99 indicates dry well - see remarks in water elevation listings included on CD)

- 5109.86 Monitoring Wells
- Performance Water Quality Wells

Wells Not Measured or Not Used for Contouring

- Monitoring Wells
- Depression in water table due to extraction well. May not match actual areal extent of depression.

N

0 75 150 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-10

Army/Shell GIS

8/26/2015 RMITS

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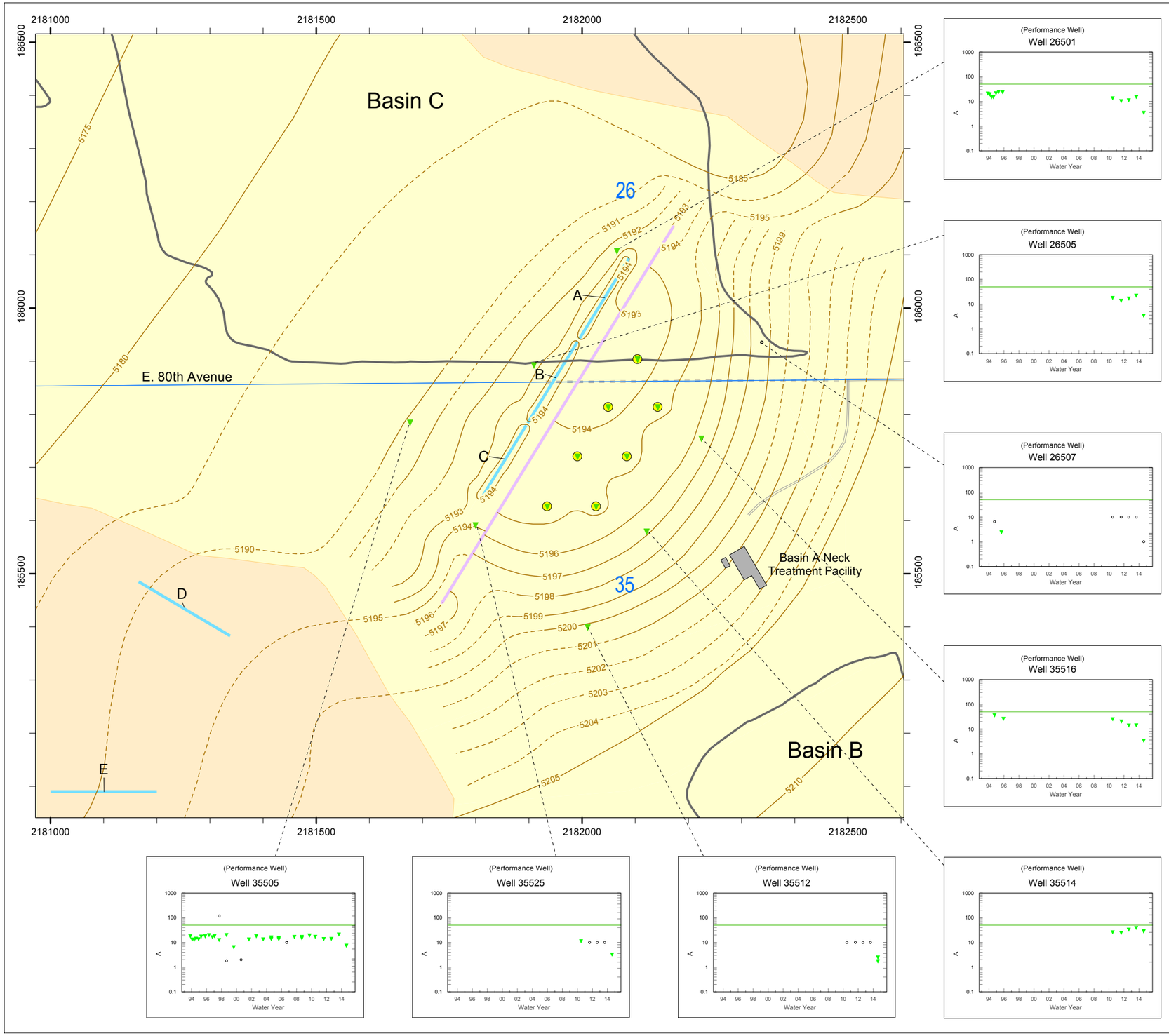

FY14 Arsenic Concentration for Selected Wells in the Unconfined Aquifer Basin A Neck

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Buildings
- Slurry Walls
- Recharge Trenches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Paved Roads
- Unimproved Roads

Extraction Wells Used For Water Quality

- Chemical Detected At or Above Containment
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*
- Chemical Not Sampled in FY14

Water Quality Wells

- Chemical Detected At or Above Containment
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Arsenic, 50 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-11

Army/Shell GIS

8/26/2015 RMITS

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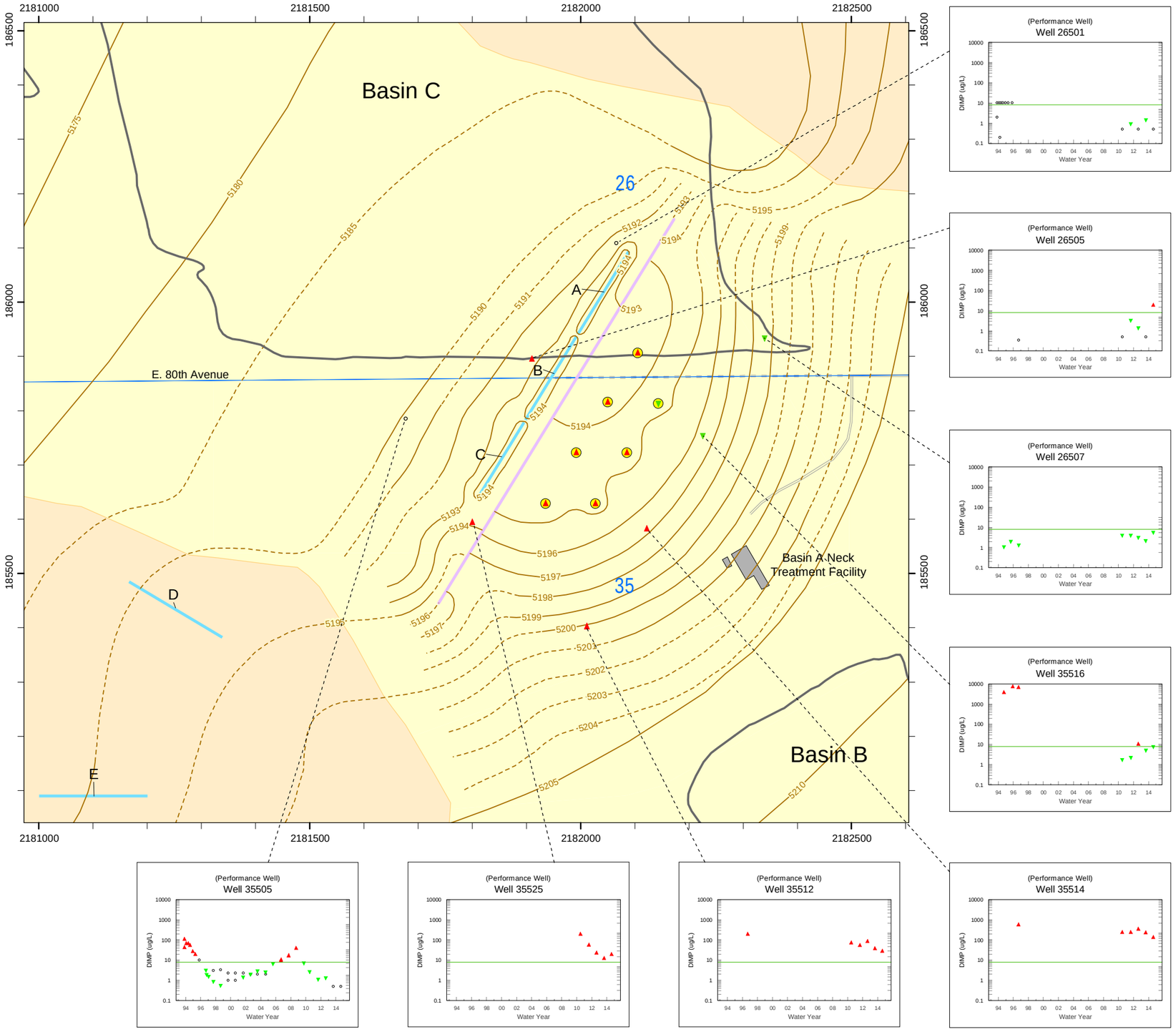

FY14 Diisopropylmethylphosphonate Concentration for Selected Wells in the Unconfined Aquifer Basin A Neck

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Buildings
- Slurry Walls
- Recharge Trenches
- Ditches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Paved Roads
- Unimproved Roads

Extraction Wells Used For Water Quality

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*
- Chemical Not Sampled in FY14

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Diisopropylmethylphosphonate, 8 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-12

Army/Shell GIS

8/26/2015 RMITS.

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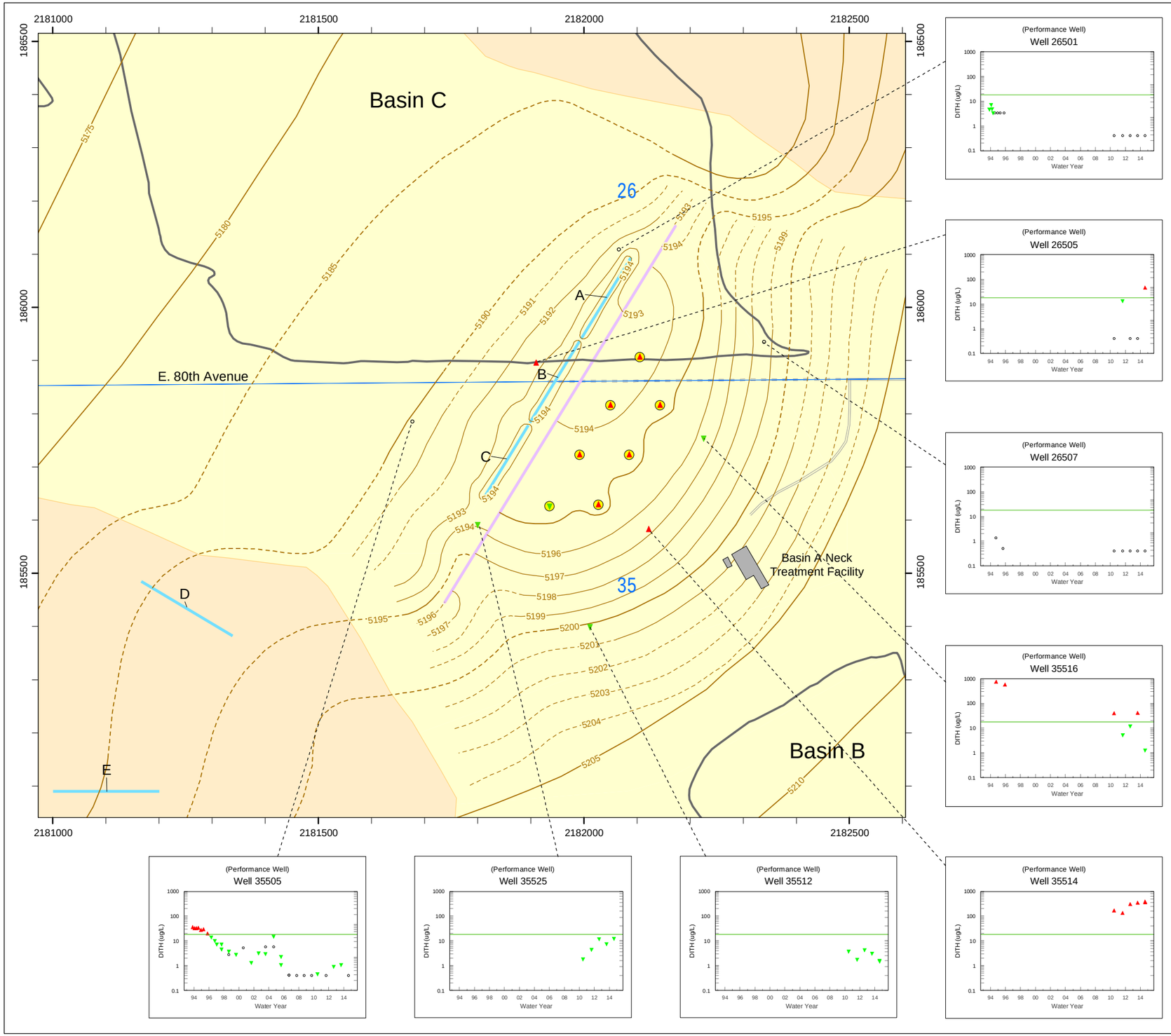


FY14 Dithiane Concentration for Selected Wells in the Unconfined Aquifer Basin A Neck

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Buildings
- Slurry Walls
- Recharge Trenches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Paved Roads
- Unimproved Roads

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

Extraction Wells Used For Water Quality

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*
- Chemical Not Sampled in FY14

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Dithiane, 18 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

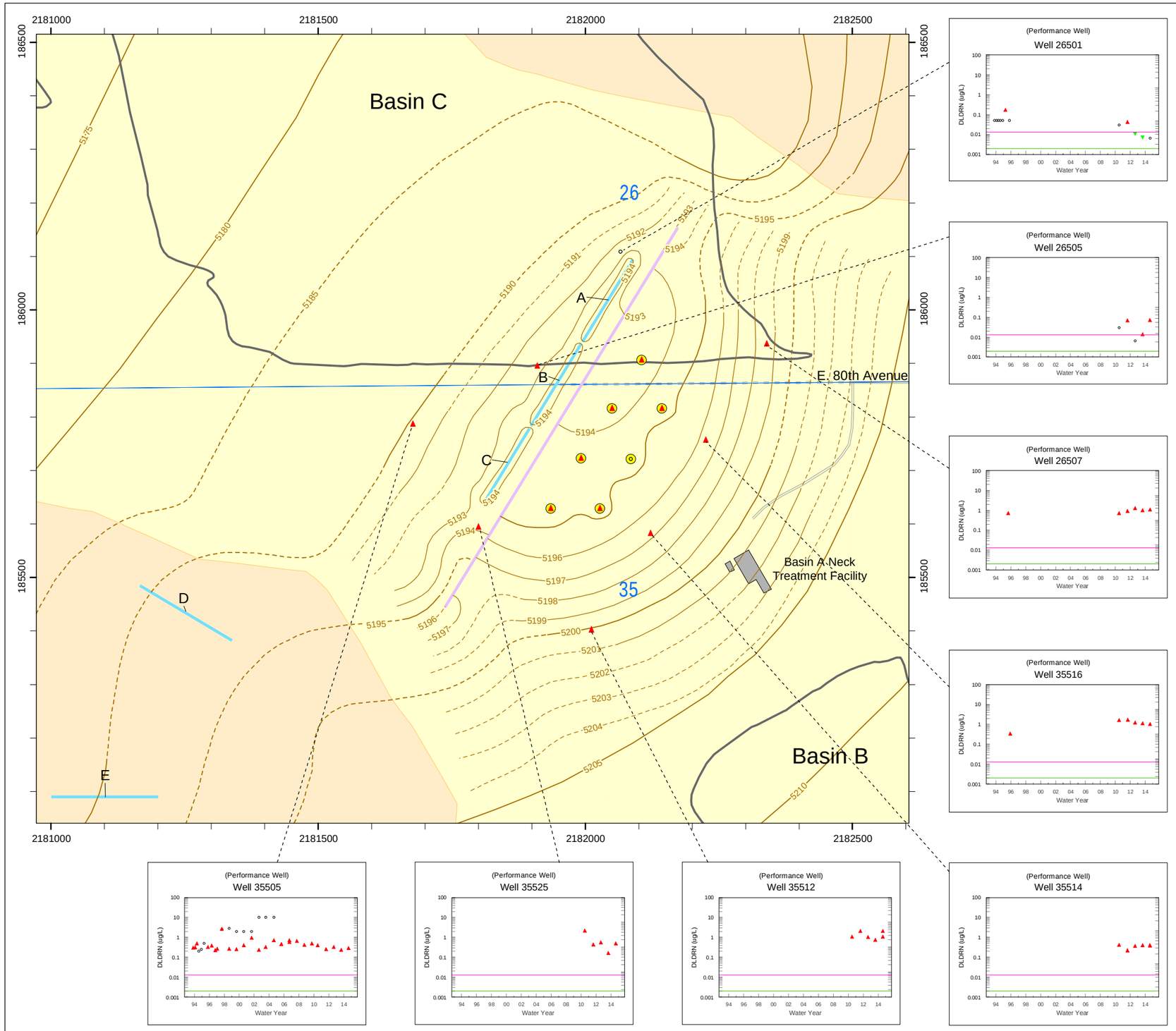
Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-13

Army/Shell GIS

8/26/2015 RMITS

M:\projects\oars\oar14\mxds\ban14_tvc_dith.mxd



FY14 Dieldrin Concentration for Selected Wells in the Unconfined Aquifer Basin A Neck

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Buildings
- Slurry Walls
- Recharge Trenches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Paved Roads
- Unimproved Roads

Extraction Wells Used For Water Quality

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*
- Chemical Not Sampled in FY14

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Dieldrin, 0.002 micrograms per liter
- Graphed PQL indicator line for Dieldrin, 0.013 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-14

Army/Shell GIS

8/26/2015 RMITS

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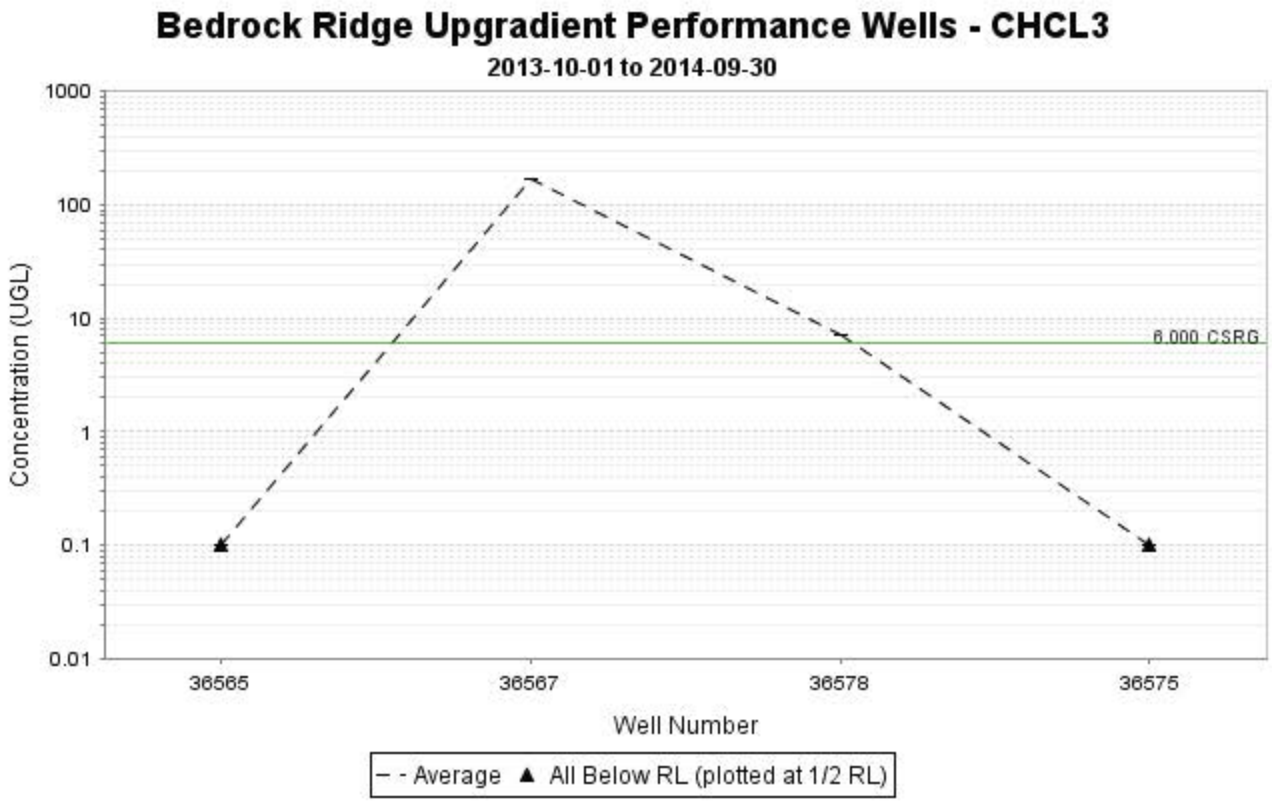
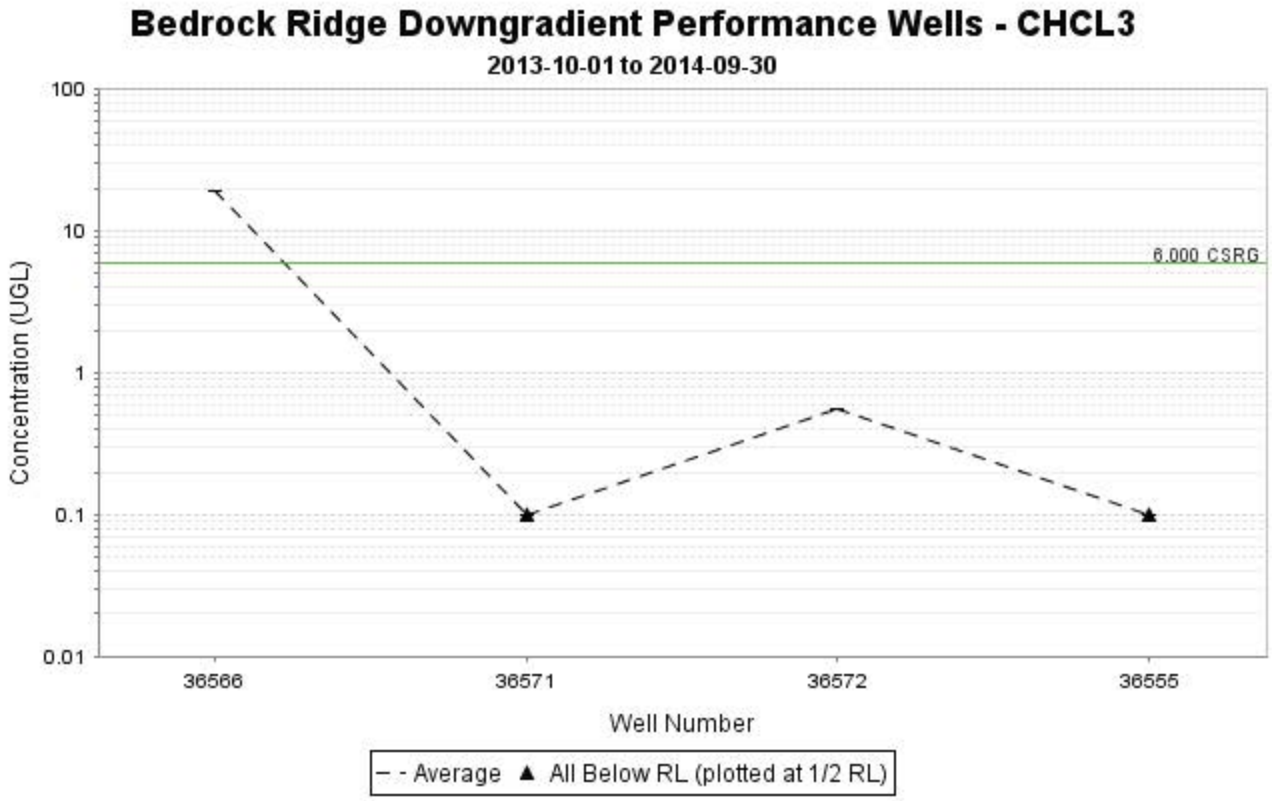
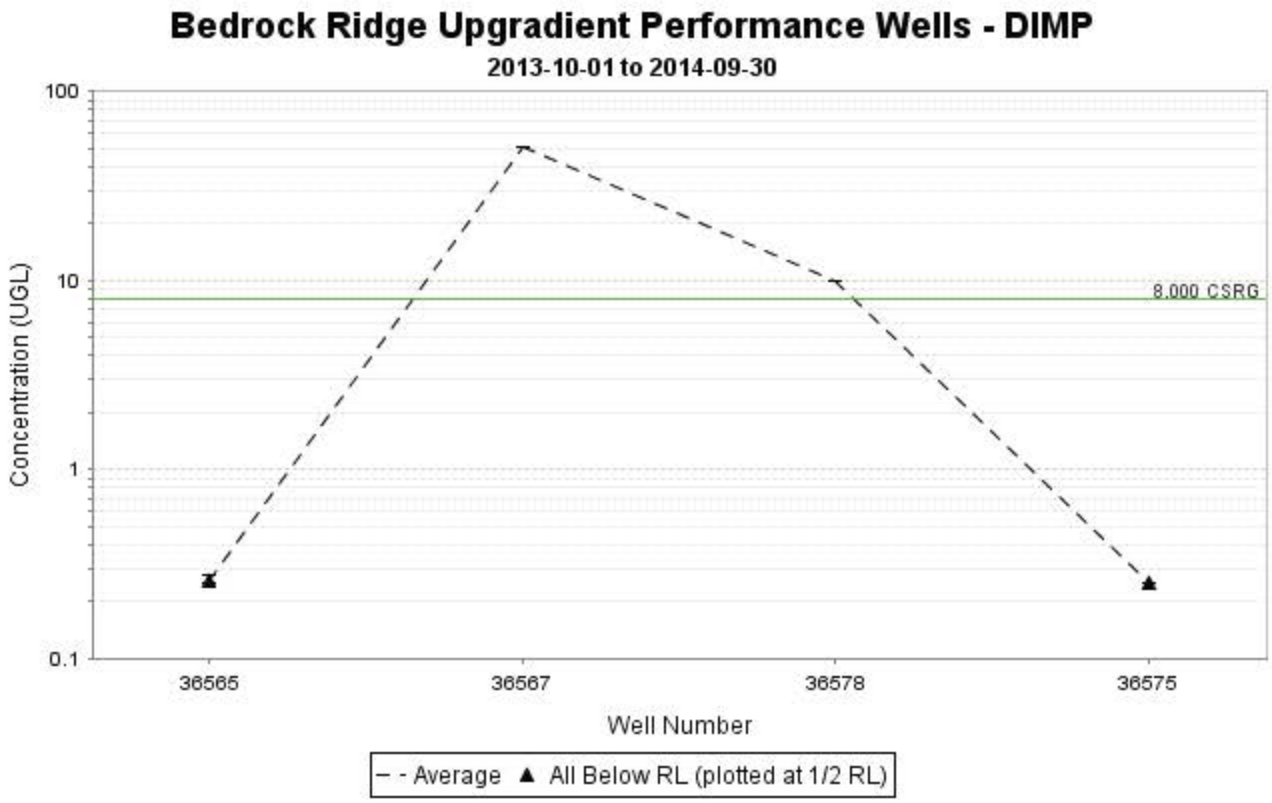
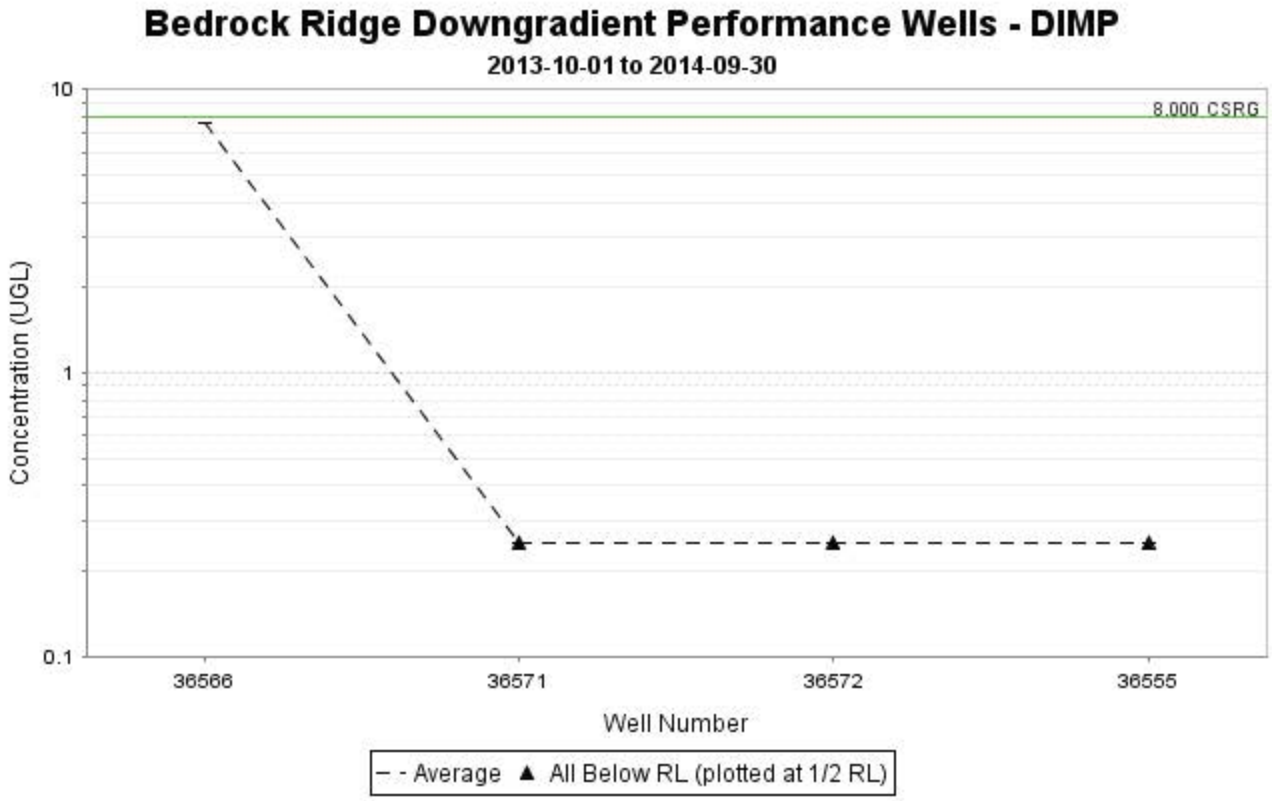
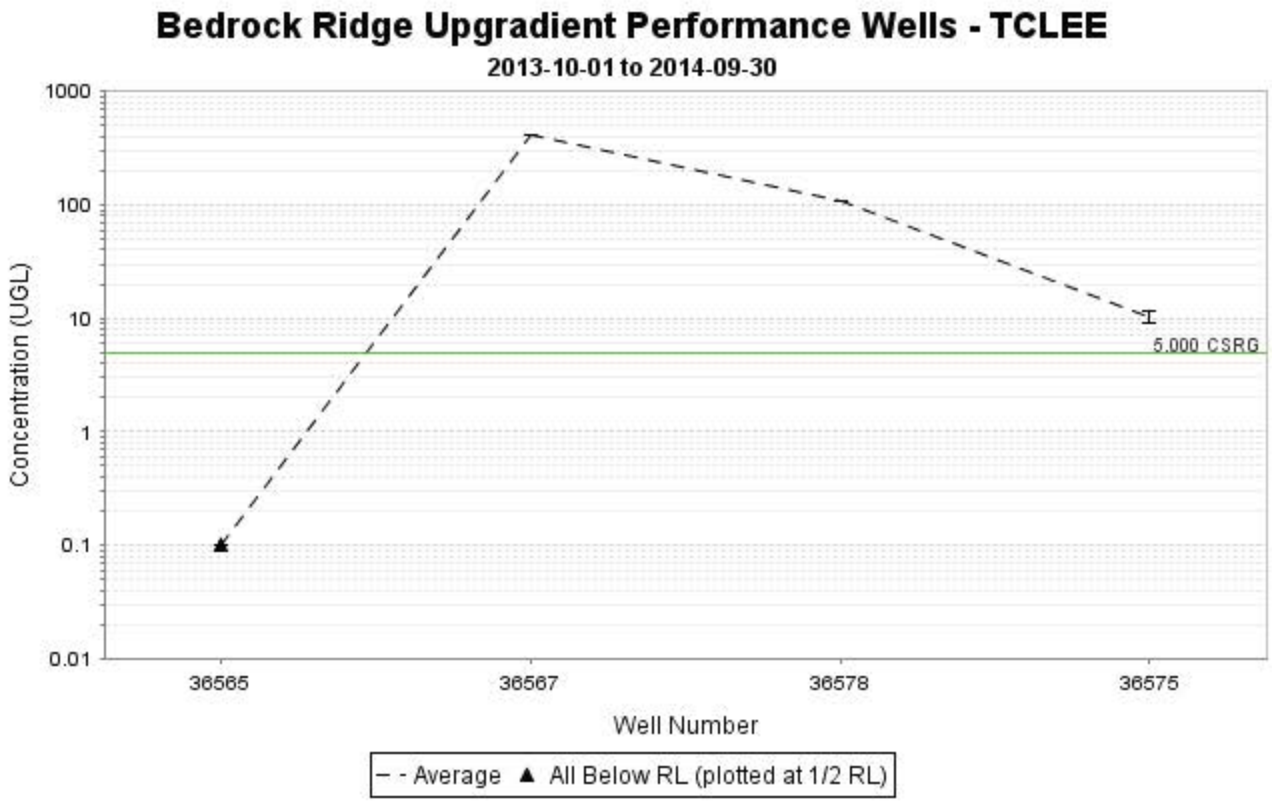
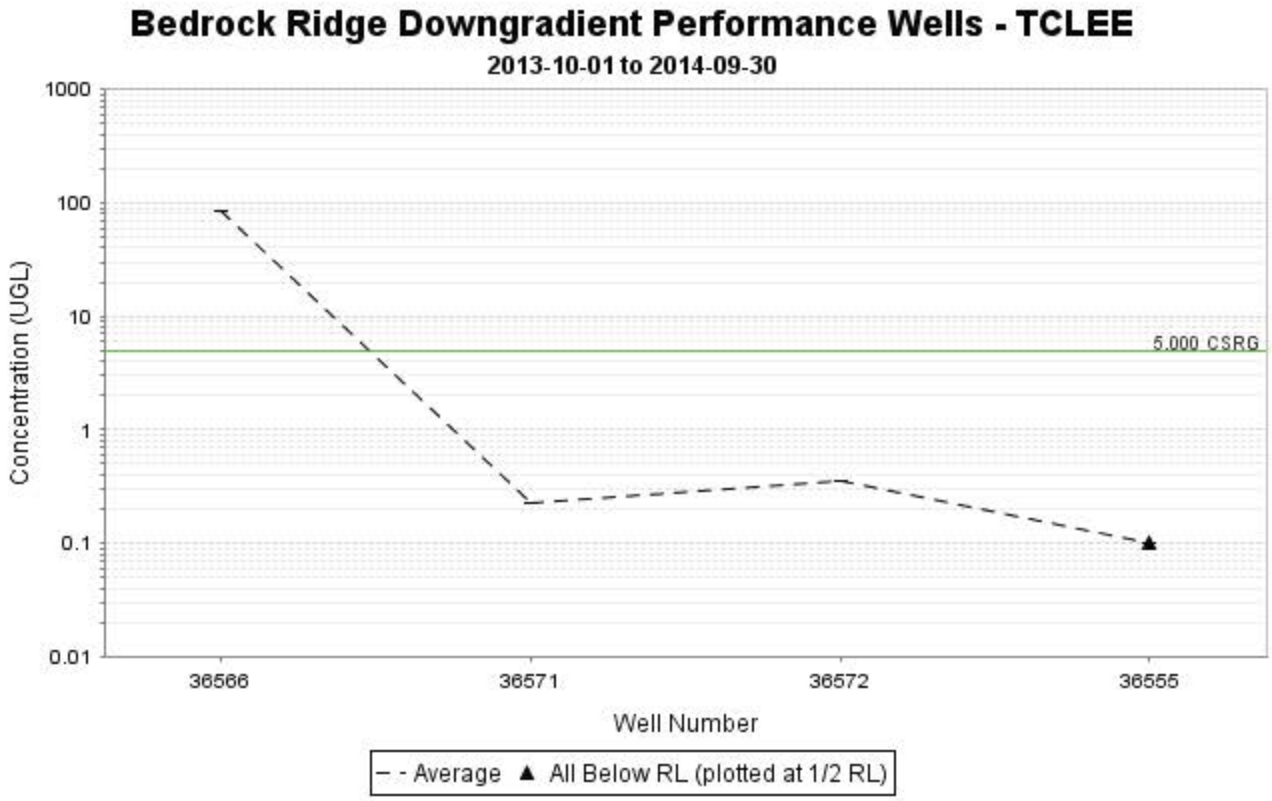

Bedrock Ridge Upgradient Performance Wells - CHCL3
2013-10-01 to 2014-09-30
1000
100
10
1
0.1
0.01
Concentration (UGL)
6.000 CSRG
36565
36567
36578
36575
Well Number
Average
All Below RL (plotted at 1/2 RL)

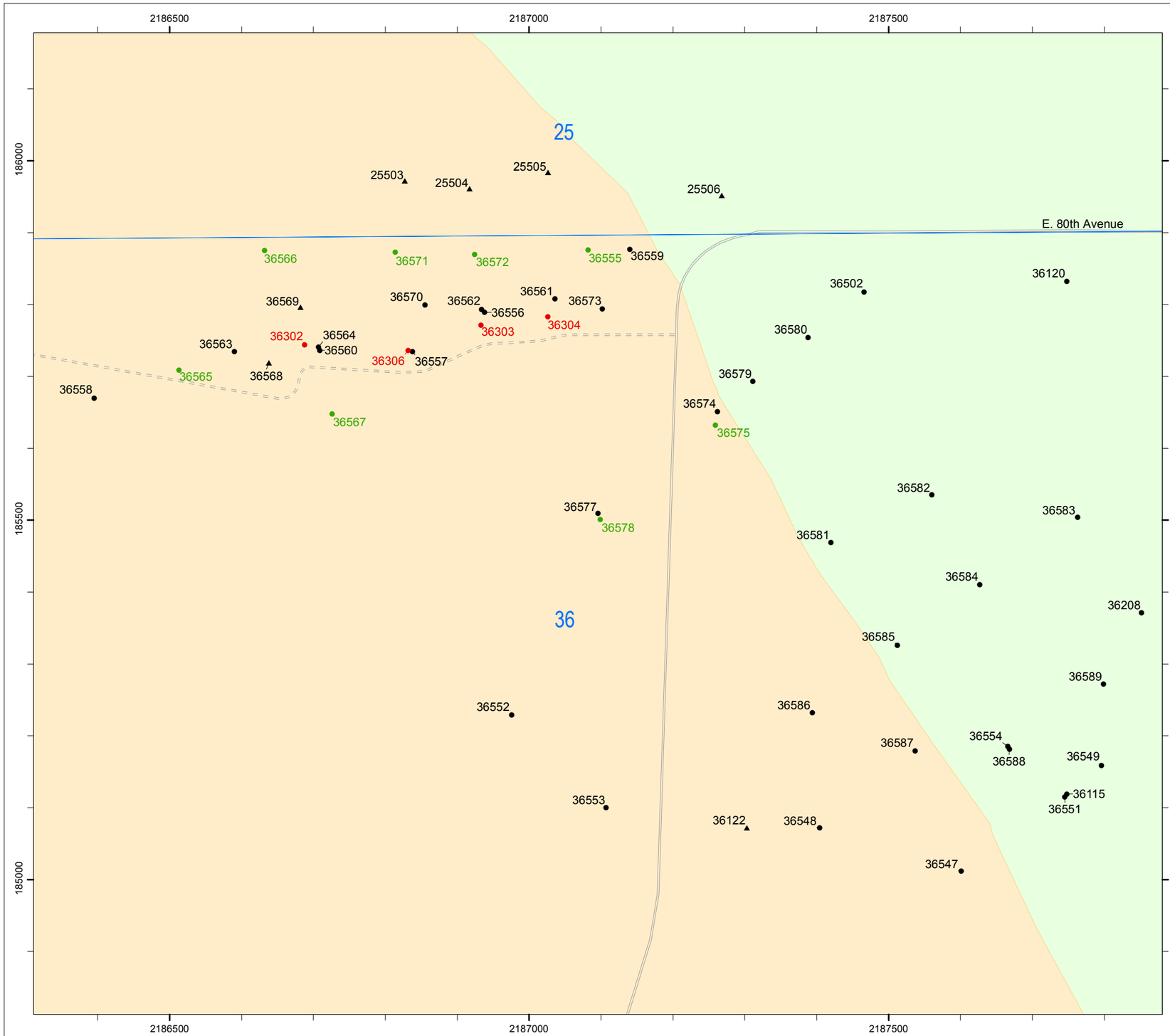

Bedrock Ridge Downgradient Performance Wells - CHCL3
2013-10-01 to 2014-09-30
100
10
1
0.1
0.01
Concentration (UGL)
6.000 CSRG
36566
36571
36572
36555
Well Number
Average
All Below RL (plotted at 1/2 RL)


Bedrock Ridge Upgradient Performance Wells - DIMP
2013-10-01 to 2014-09-30
100
10
1
0.1
Concentration (UGL)
8.000 CSRG
36565
36567
36578
36575
Well Number
Average
All Below RL (plotted at 1/2 RL)


Bedrock Ridge Downgradient Performance Wells - DIMP
2013-10-01 to 2014-09-30
10
1
0.1
Concentration (UGL)
8.000 CSRG
36566
36571
36572
36555
Well Number
Average
All Below RL (plotted at 1/2 RL)


Bedrock Ridge Upgradient Performance Wells - TCLEE
2013-10-01 to 2014-09-30
1000
100
10
1
0.1
0.01
Concentration (UGL)
5.000 CSRG
36565
36567
36578
36575
Well Number
Average
All Below RL (plotted at 1/2 RL)


Bedrock Ridge Downgradient Performance Wells - TCLEE
2013-10-01 to 2014-09-30
1000
100
10
1
0.1
0.01
Concentration (UGL)
5.000 CSRG
36566
36571
36572
36555
Well Number
Average
All Below RL (plotted at 1/2 RL)



FY14 Bedrock Ridge Monitoring Well Network of the Unconfined Aquifer

Legend

- Performance Water Quality Wells
- Extraction Wells
- Recharge Wells
- Monitoring Wells
  - Confined Flow System
  - Unconfined Flow System
- Section Lines
- Paved Roads
- Unimproved Roads
- Unsaturated Alluvium (Developed using summer 2014 data)
- USFWS Managed Area

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

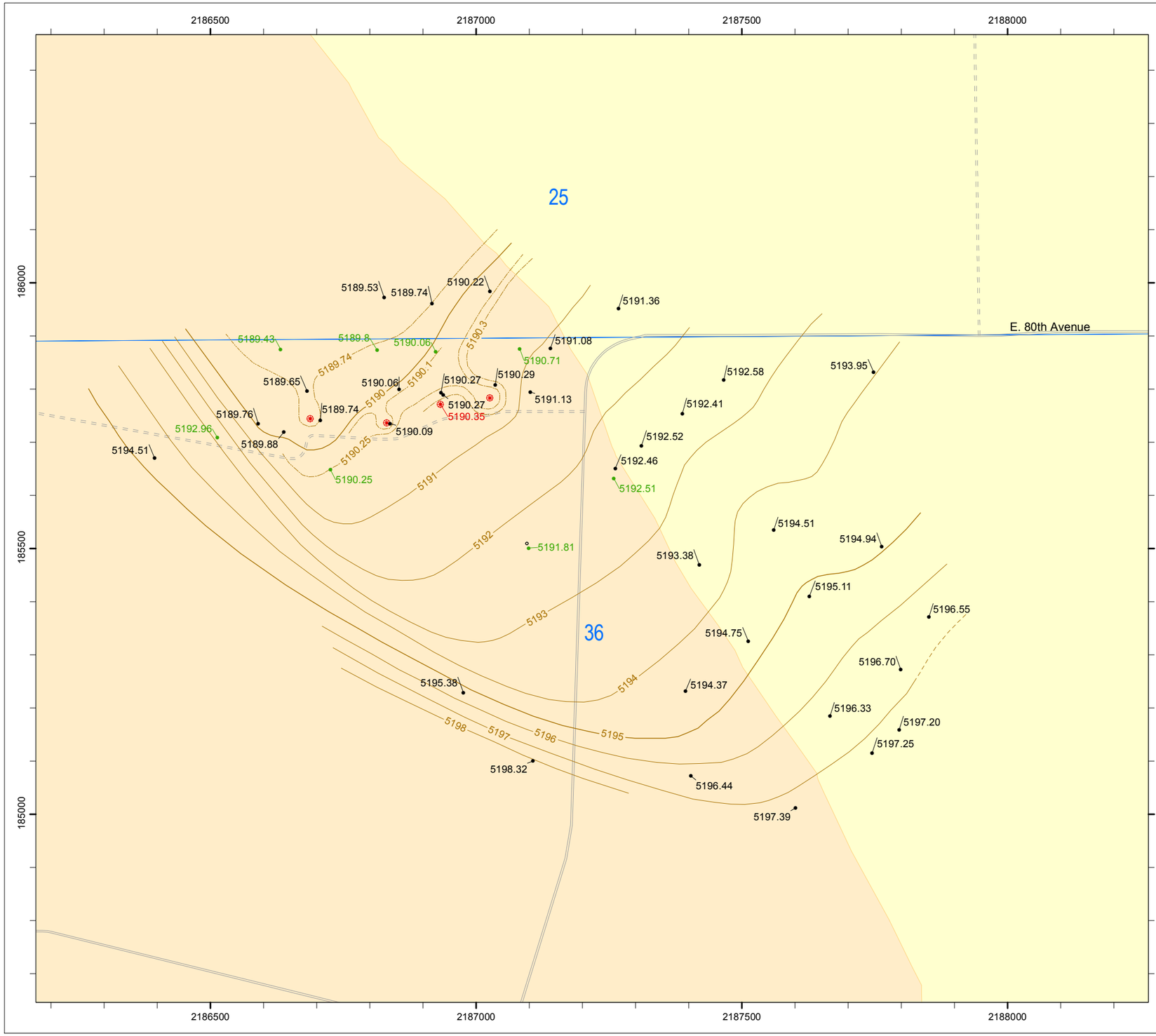
Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-18

Army/Shell GIS

8/26/2015 RMITS.

M:\projects\oars\oar14\mxds\brr14_well_location.mxd



FY14 1st Quarter Groundwater Elevation Contours of the Unconfined Aquifer Bedrock Ridge System

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Ditches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected October 2013.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour

Measured Wells Used for Contouring with Water Elevations

- 5109.86 Extraction Wells
- 5109.86 Monitoring Wells
- 5109.86 Performance Water Quality Wells

Wells Not Measured or Not Used for Contouring

- Depression in water table due to extraction well. May not match actual areal extent of depression.
- Monitoring Wells

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-19

Army/Shell GIS

8/26/2015 RMITS

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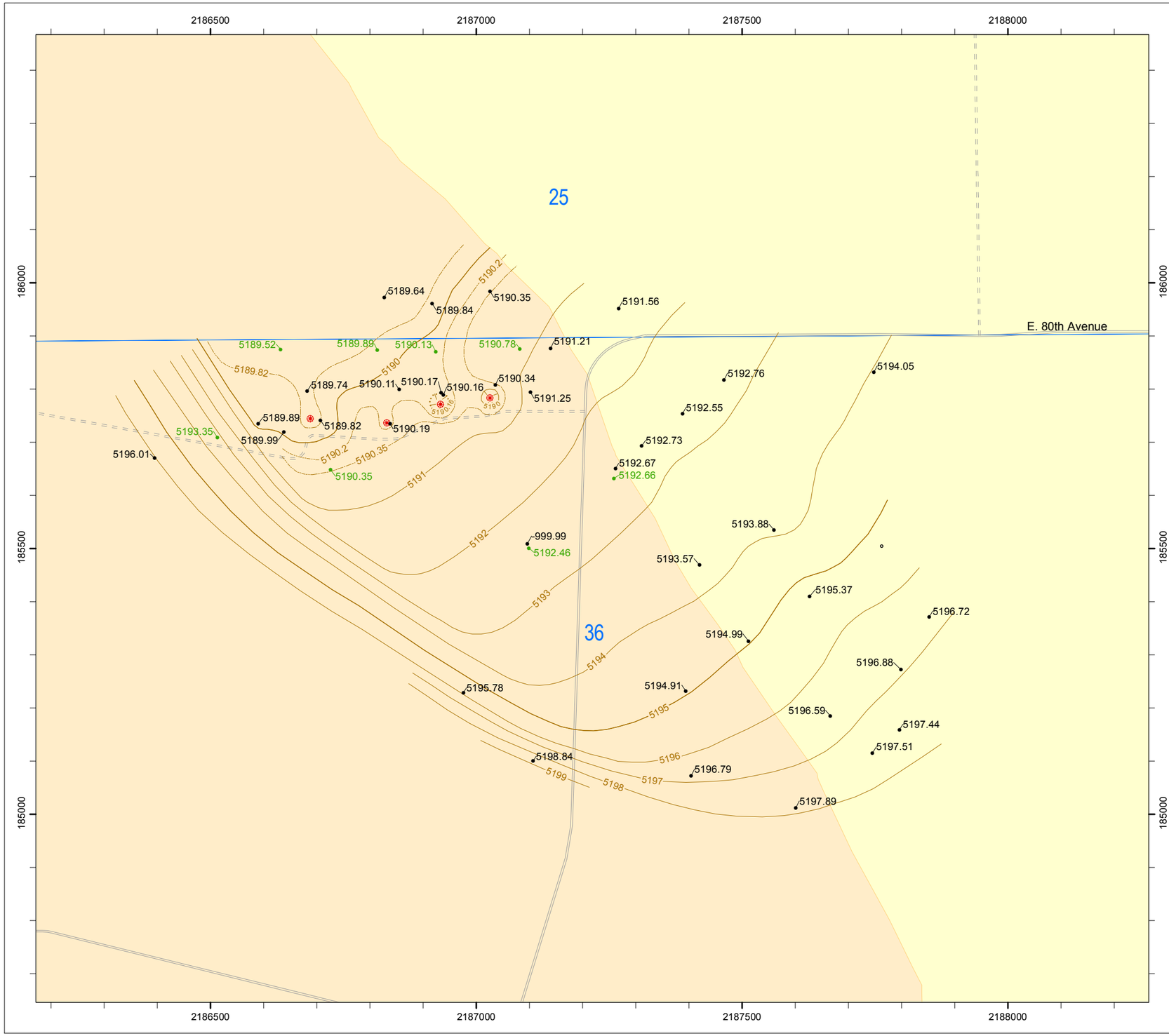

FY14 2nd Quarter Groundwater Elevation Contours of the Unconfined Aquifer Bedrock Ridge System

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Ditches
- Paved Roads
- Unimproved Roads
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected January 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour

Measured Wells Used for Contouring with Water Elevations (-999.99 indicates dry well - see remarks in water elevation listings included on CD)

- 5109.86 Extraction Wells
- 5109.86 Monitoring Wells
- 5109.86 Performance Water Quality Wells

Wells Not Measured or Not Used for Contouring

- Depression in water table due to extraction well. May not match actual areal extent of depression.
- Monitoring Wells

N

NAD27-NGVD29 Datum, US Survey Feet, 0 100 200 Feet

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-20

Army/Shell GIS

8/26/2015 RMITS

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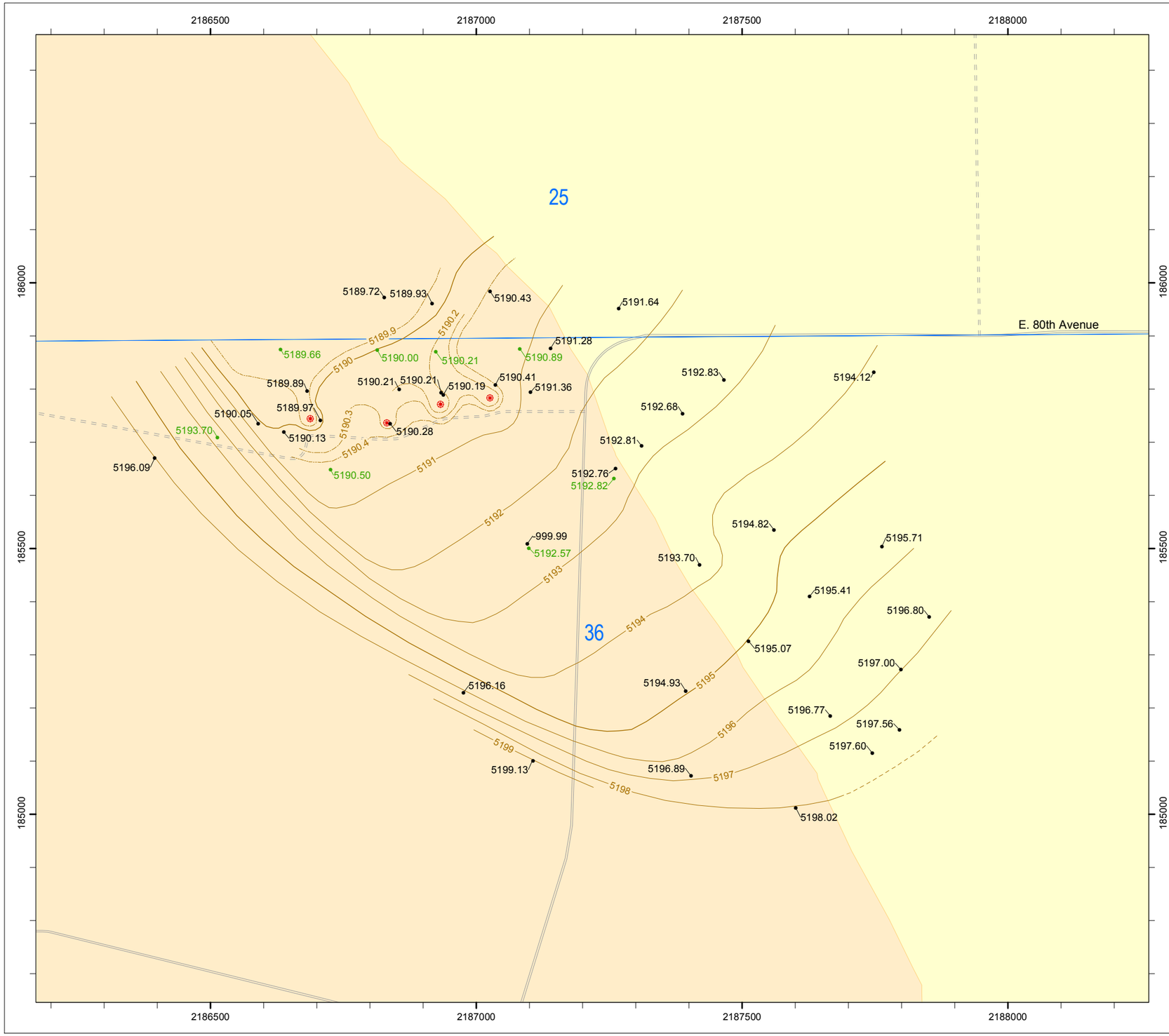

FY14 3rd Quarter Groundwater Elevation Contours of the Unconfined Aquifer Bedrock Ridge System

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Ditches
- Paved Roads
- Unimproved Roads
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected April 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour

Measured Wells Used for Contouring with Water Elevations (-999.99 indicates dry well - see remarks in water elevation listing included on CD)

- 5109.86 Monitoring Wells
- 5109.86 Performance Water Quality Wells

Wells Not Measured or Not Used for Contouring

- Depression in water table due to extraction well. May not match actual areal extent of depression.

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-21

Army/Shell GIS

8/26/2015 RMITS

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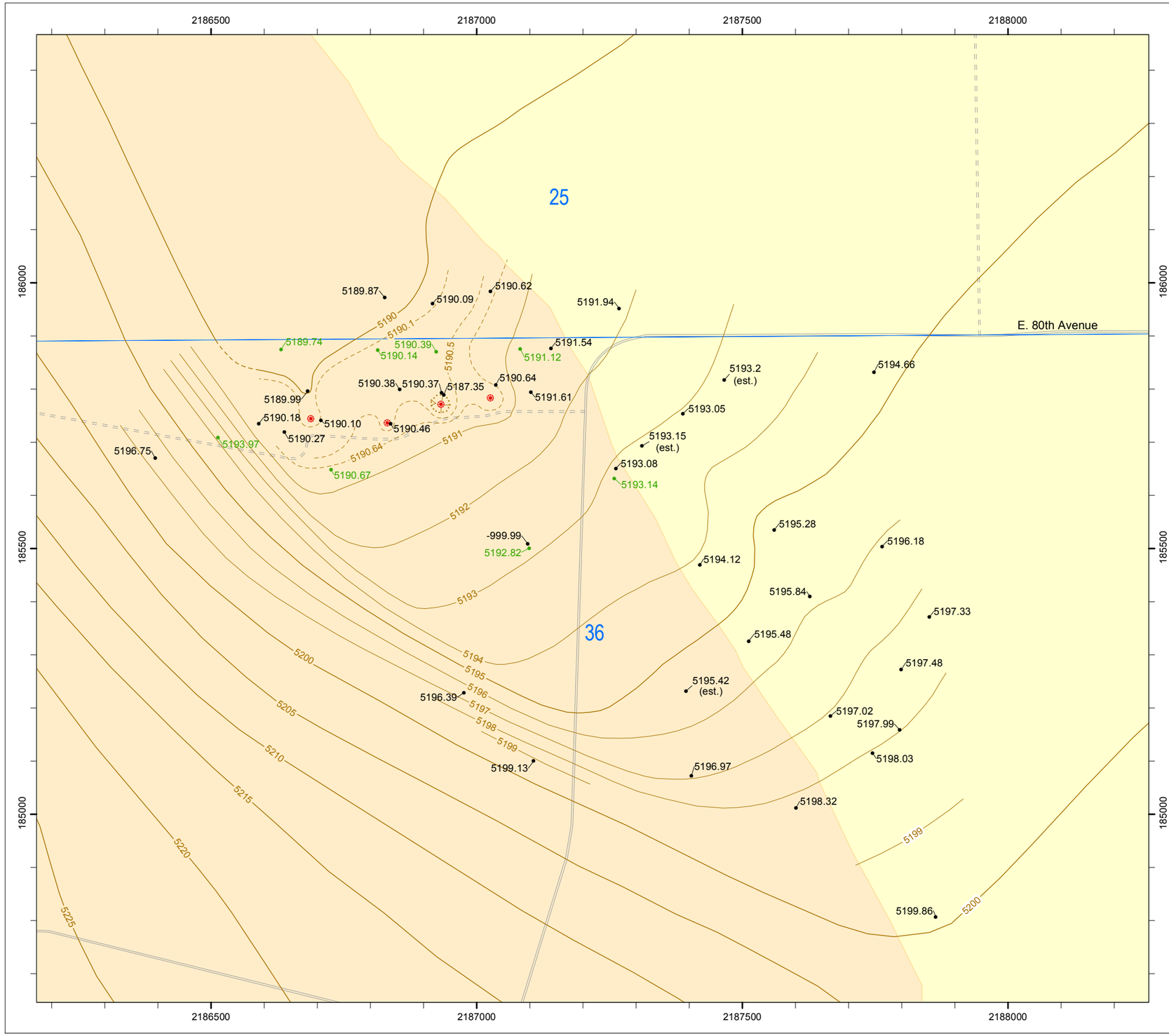

FY14 4th Quarter Groundwater Elevation Contours of the Unconfined Aquifer Bedrock Ridge System

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Ditches
- Paved Roads
- Unimproved Roads
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour

Measured Wells Used for Contouring with Water Elevations (-999.99 indicates dry well - see remarks in water elevation listings included on CD)

- 5109.86 Monitoring Wells
- 5109.86 Performance Water Quality Wells

Wells Not Measured or Not Used for Contouring

- Depression in water table due to extraction well. May not match actual areal extent of depression.

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-22

Army/Shell GIS

8/26/2015 RMITS

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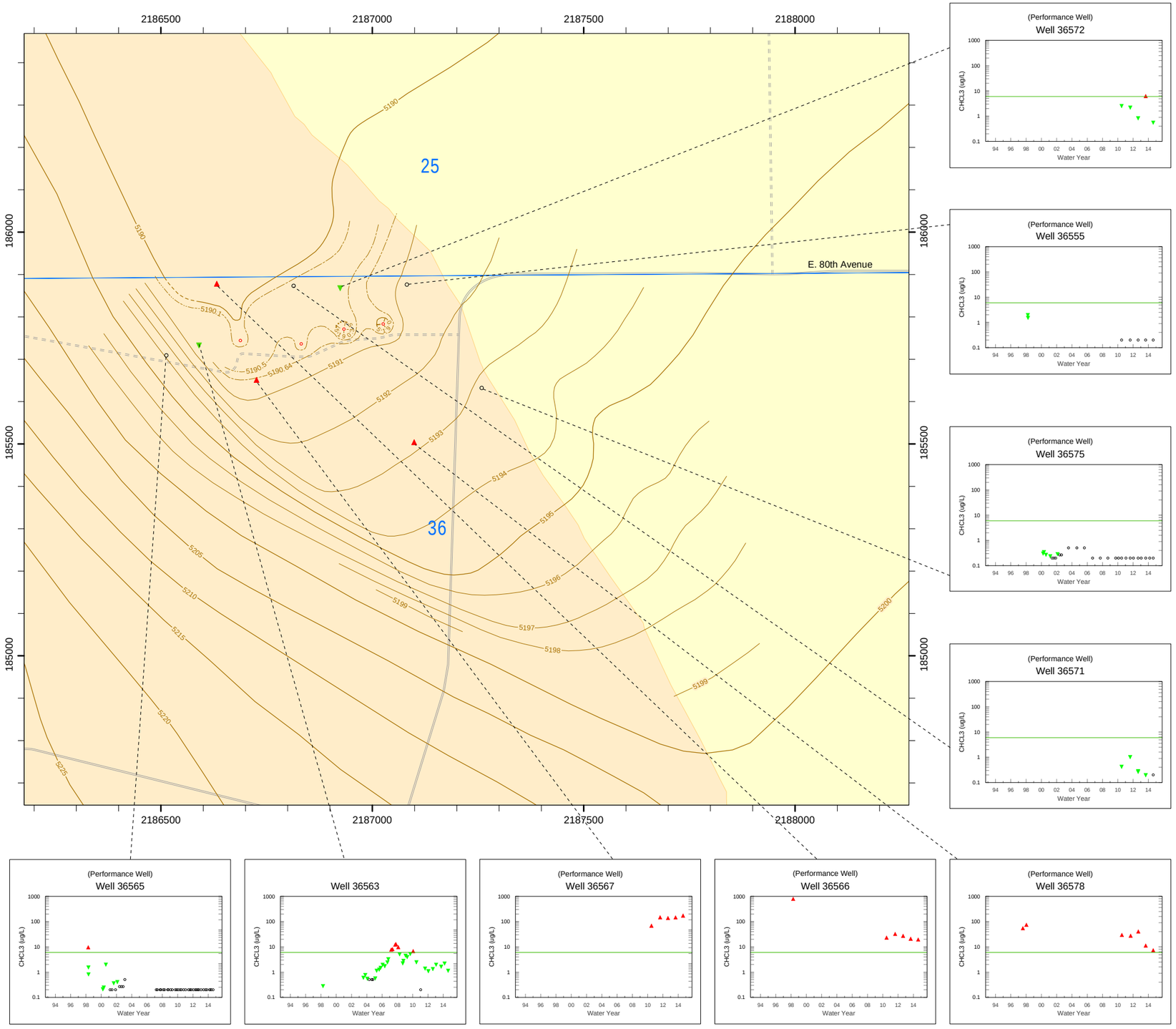

FY14 Chloroform Concentration for Selected Wells in the Unconfined Aquifer Bedrock Ridge

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Slurry Walls
- Recharge Trenches
- Ditches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour
- Paved Roads
- Unimproved Roads

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

Treatment System Wells Not Used For Water Quality

- Extraction Wells

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Chloroform, 6 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-23

Army/Shell GIS

8/26/2015 RMITS

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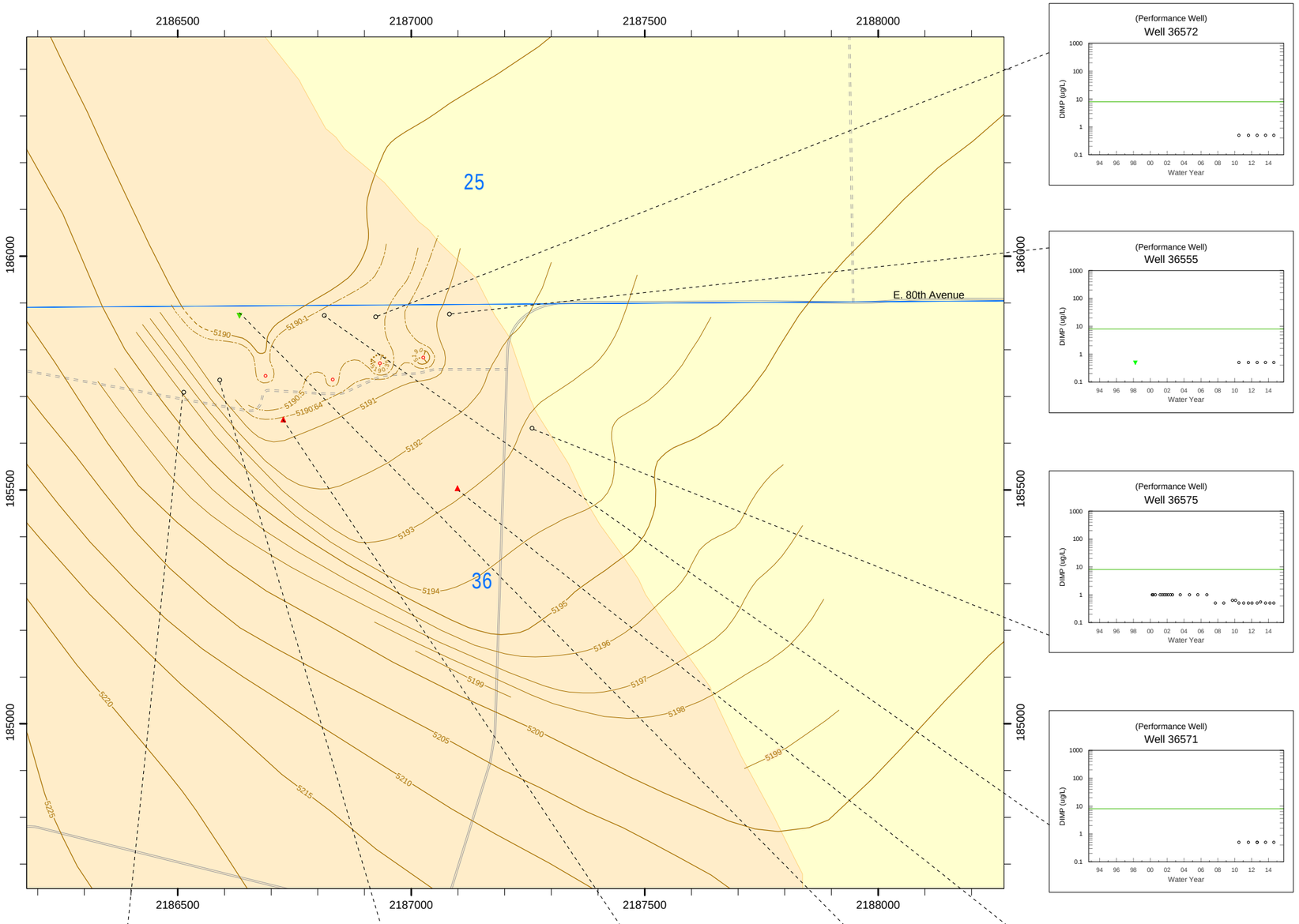

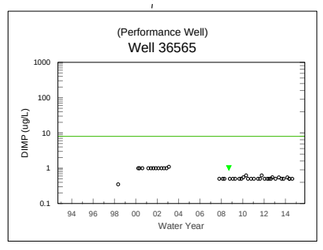

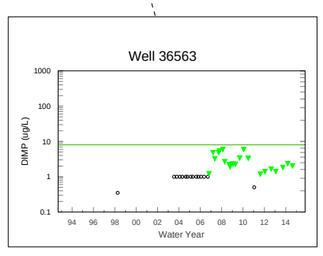

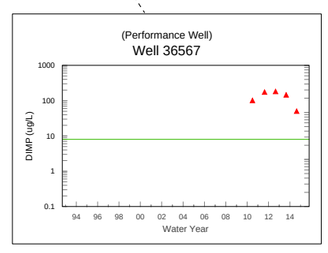

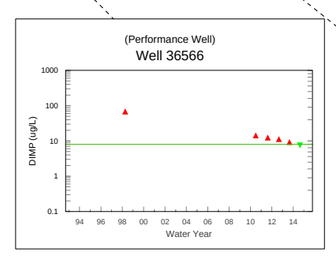

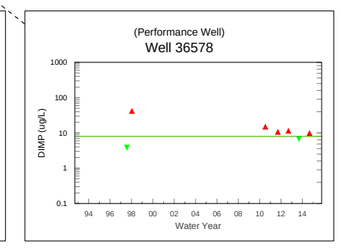

FY14 Diisopropylmethylphosphonate Concentration for Selected Wells in the Unconfined Aquifer Bedrock Ridge

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Slurry Walls
- Recharge Trenches
- Ditches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour
- Paved Roads
- Unimproved Roads

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

Treatment System Wells Not Used For Water Quality

- Extraction Wells

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Diisopropylmethylphosphonate, 8 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-24

Army/Shell GIS

8/26/2015 RMITS

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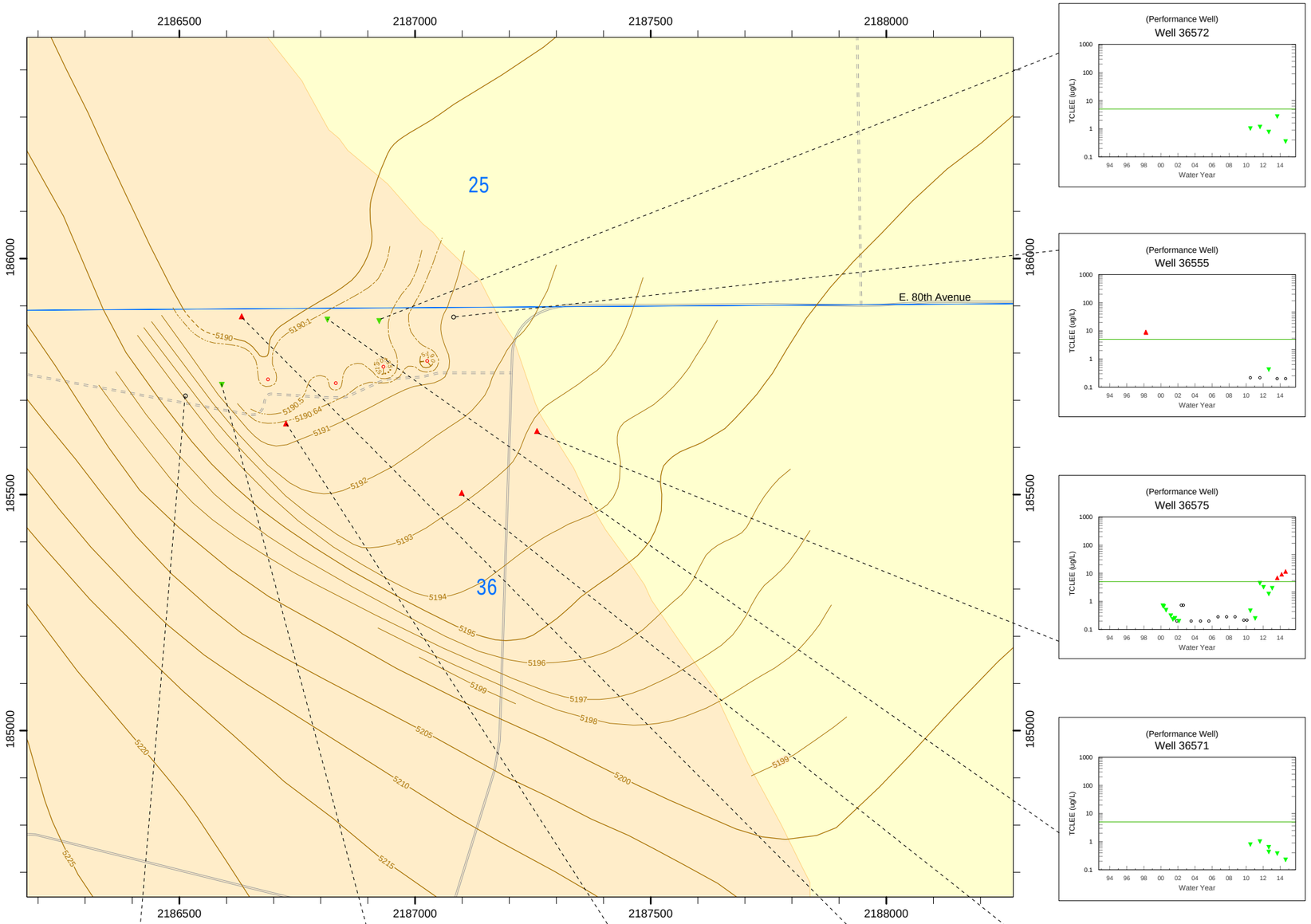

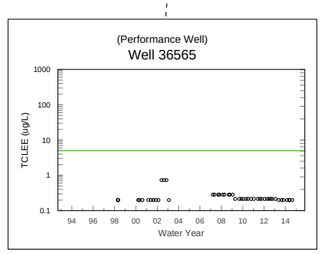

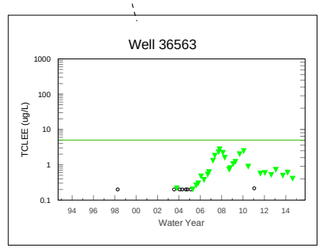

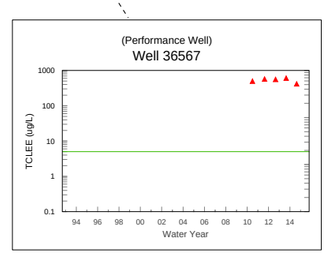

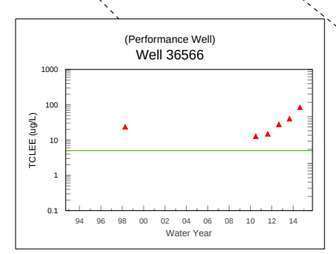

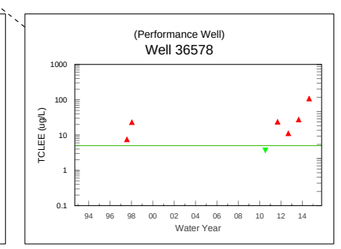

FY14 Tetrachloroethylene Concentration for Selected Wells in the Unconfined Aquifer Bedrock Ridge

Legend

- Saturated Alluvium
- Unsaturated Alluvium (Developed using summer 2014 data)
- Section Lines
- Slurry Walls
- Recharge Trenches
- Ditches
- Water elevation contour - 1 foot interval. Hachures indicate depression. Water elevations collected July 2014.
- Approximate water elevation contour
- Supplemental water elevation contour
- Approximate supplemental water elevation contour
- Paved Roads
- Unimproved Roads

Water Quality Wells

- Chemical Detected At or Above Containment System Remediation Goal (CSRG)*
- Chemical Detected Below CSRG*
- Chemical Less Than Method Reporting Limit (MRL)*

Treatment System Wells Not Used For Water Quality

- Extraction Wells

* Mapped symbols reflect FY14 chemical values only.

- Graphed CSRG indicator line for Tetrachloroethylene, 5 micrograms per liter

N

0 100 200 Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-25

Army/Shell GIS

8/26/2015 RMITS

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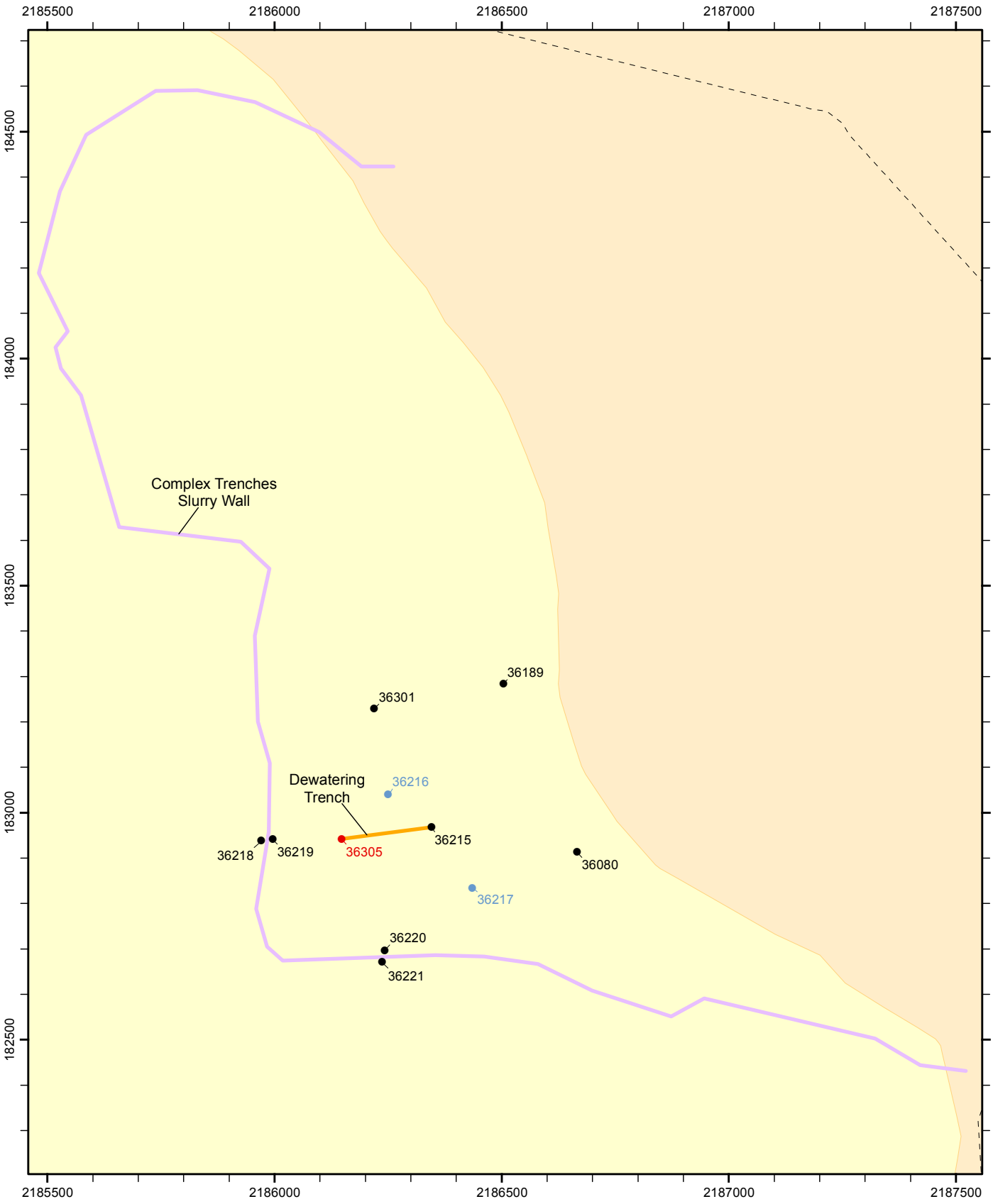

Complex Trenches Dewatering System Well Locations

Legend

- Monitoring Wells
- Compliance Wells
- Dewatering Well
- Complex Trenches Slurry Wall
- Dewatering Trench
- Army Maintained Area
- Unsaturated Alluvium (Developed using summer 2014 data)
- Army Maintained Area & USFWS Managed Area Border (shown under the Unsaturated Alluvium layer)

N

0 150 300
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-26

Army/Shell GIS

8/26/2015 RMITS

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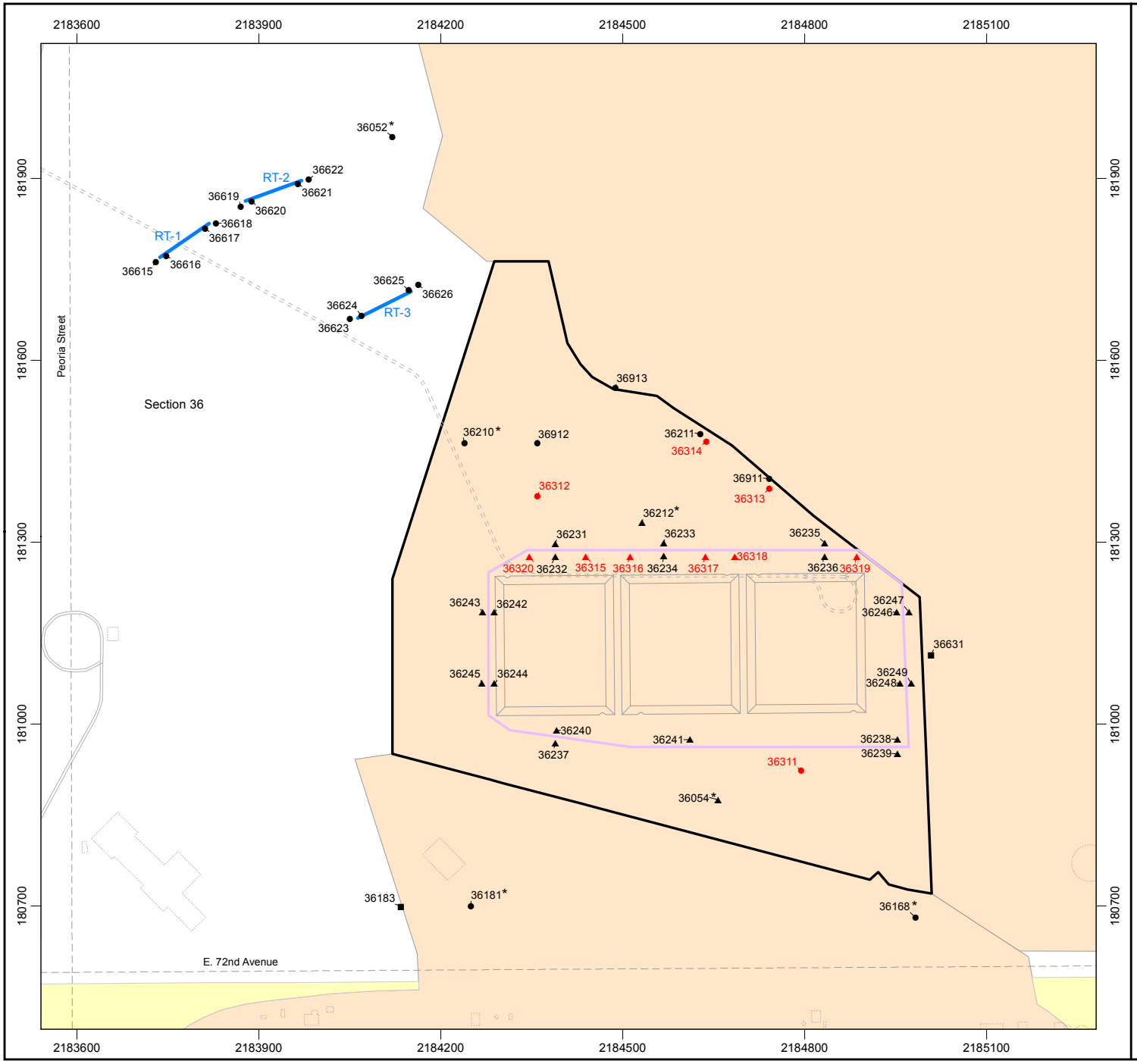


Lime Basins Monitoring Well Network

Groundwater Mass Removal (GWMR) System
Note: The GWMR System is no longer operational

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

LTMP Wells

- Monitoring Wells

Note: * = Also an LTMP Well

- Recharge Trench

Note: Recharge trenches are no longer operational

- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)

N

0 120 240 360
Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

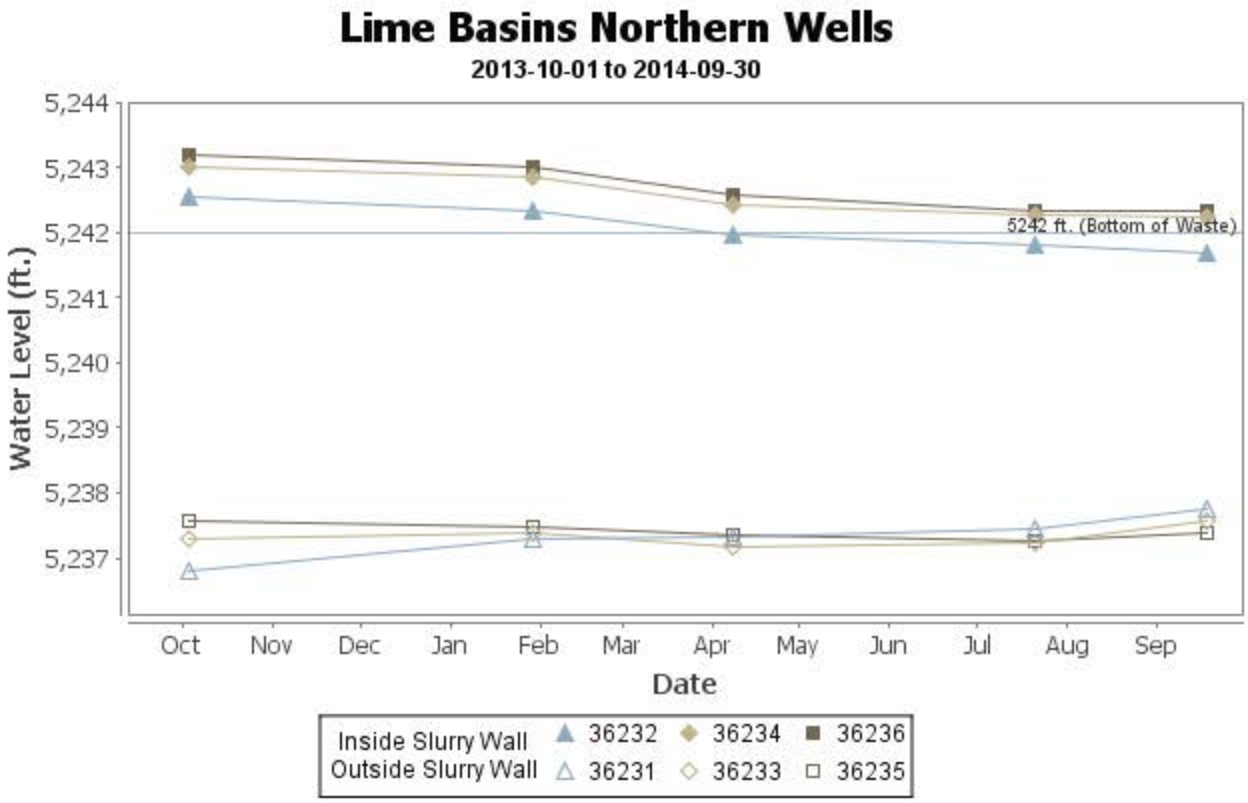
Sources: U.S. Army, RMITS, PMC, OMC, Shell/URS Corp.

Figure D-27

Army/Shell GIS

9/15/2015 RMITS

M:\projects\oars\oar14\mxds\LSB14_well_location.mxd


Lime Basins Northern Wells
2013-10-01 to 2014-09-30
Water Level (ft.)
5,244
5,243
5,242
5,241
5,240
5,239
5,238
5,237
5242 ft. (Bottom of Waste)
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Date
Inside Slurry Wall
36232
36234
36236
Outside Slurry Wall
36231
36233
36235

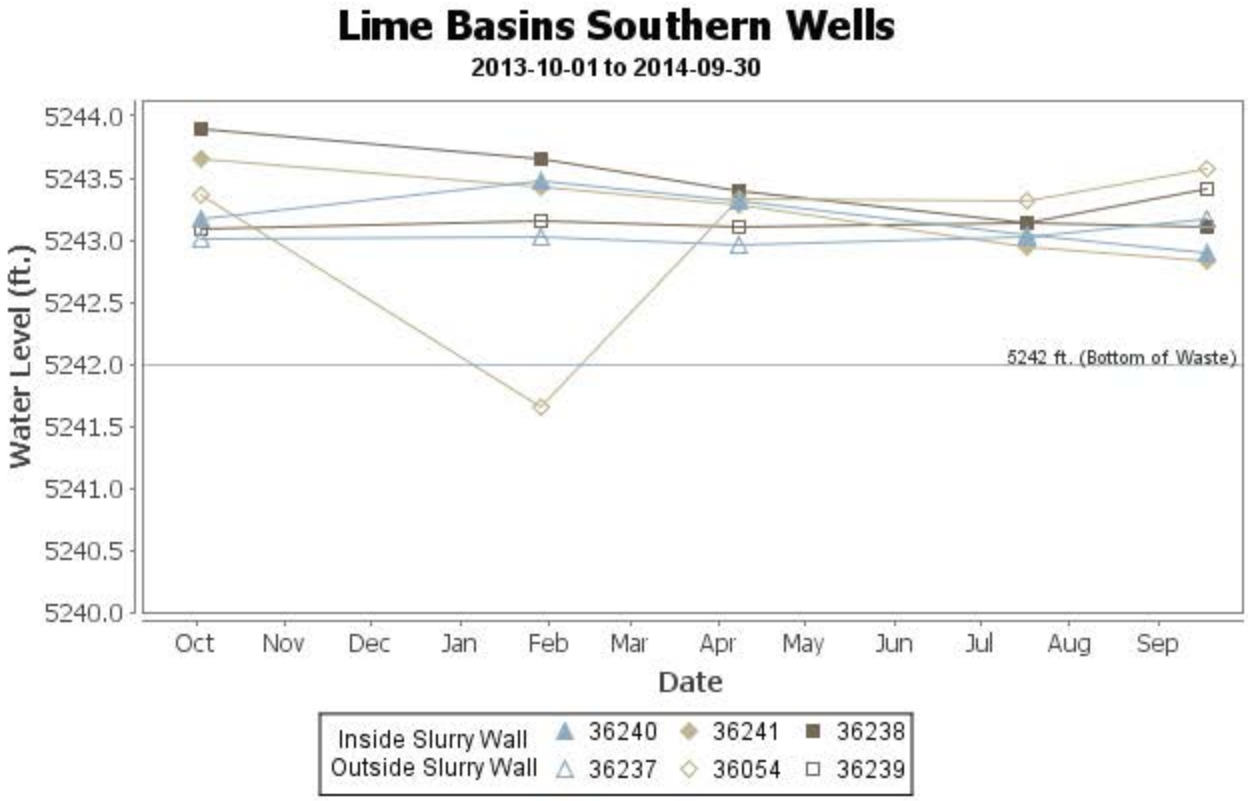
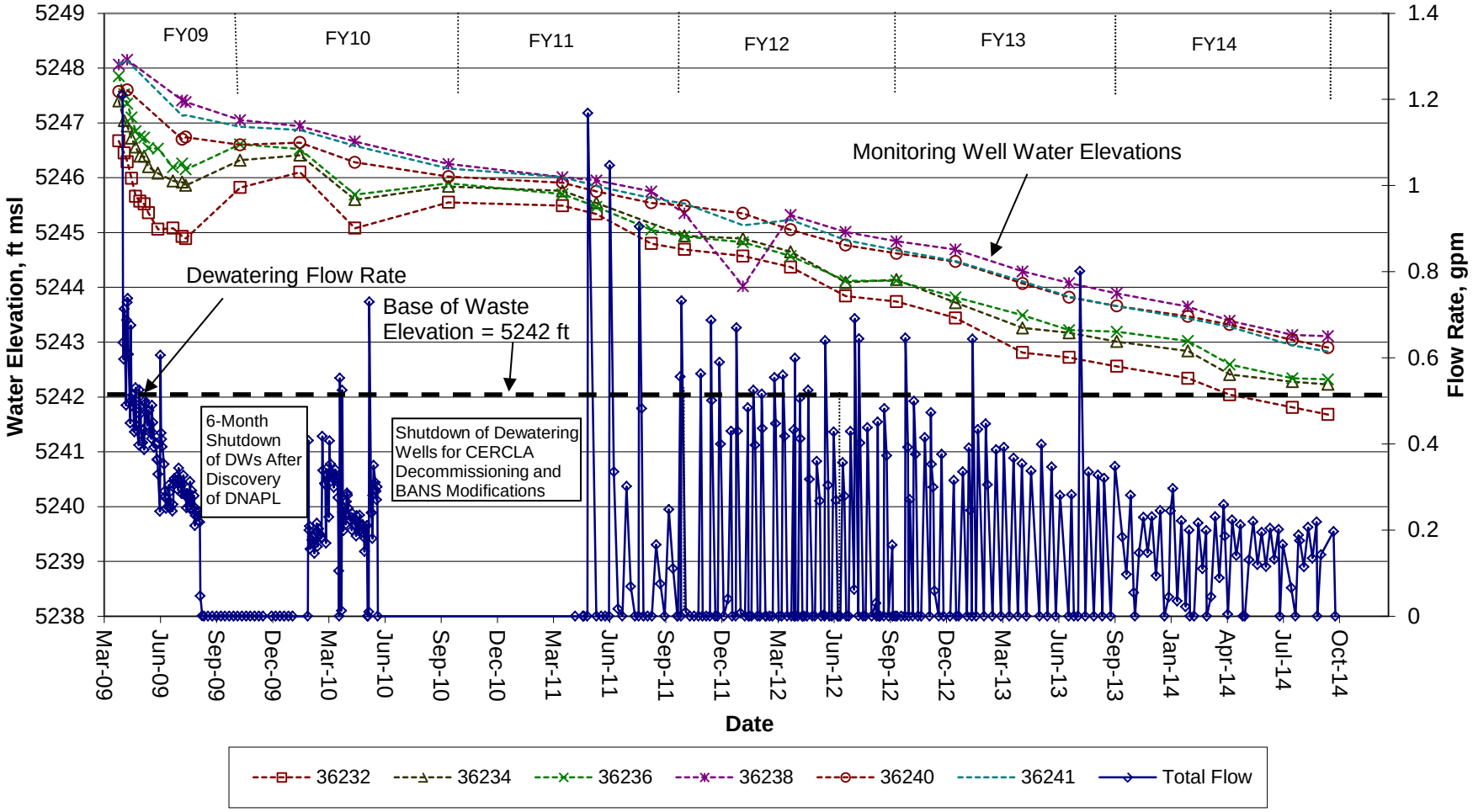
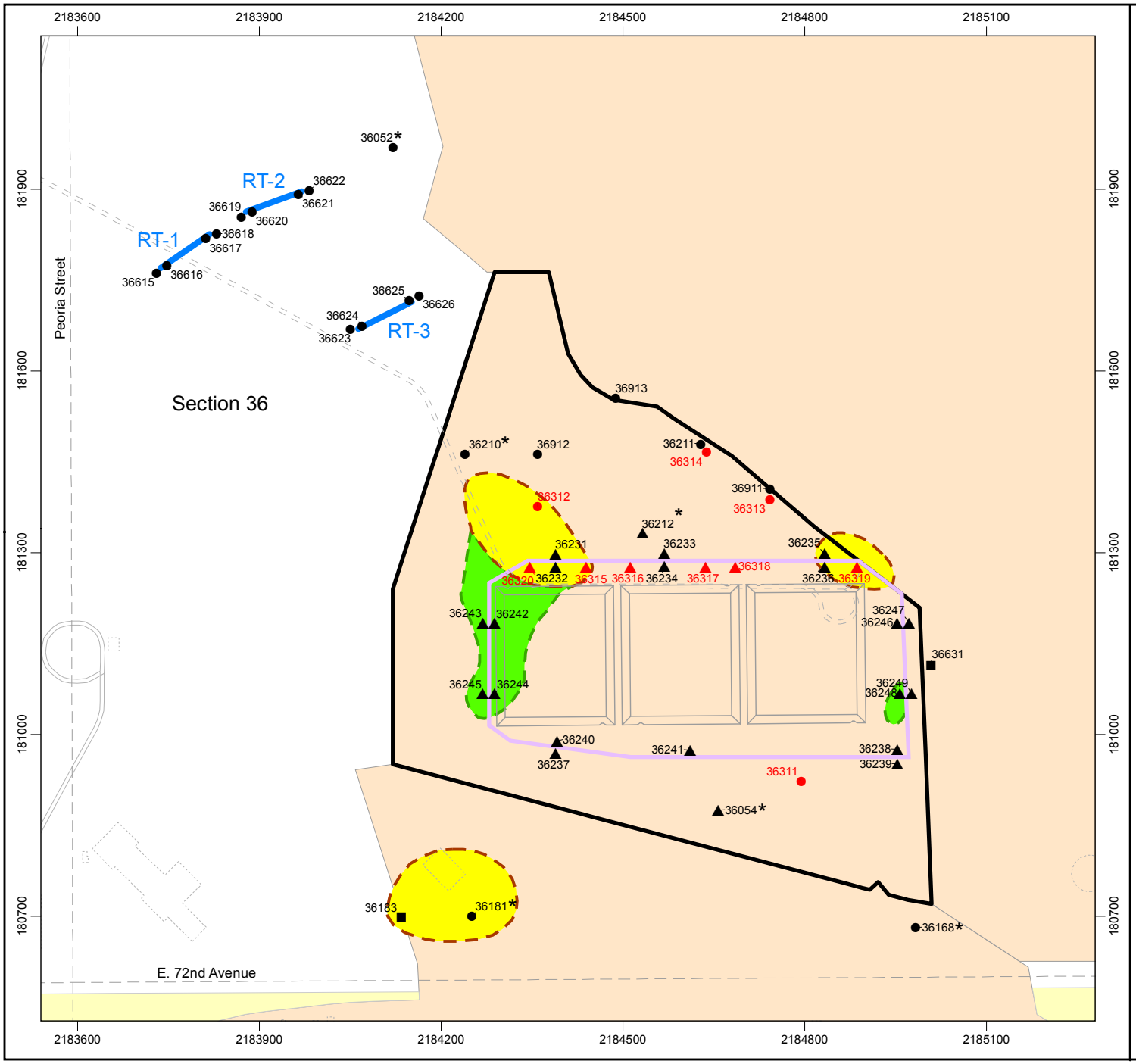

Lime Basins Southern Wells
2013-10-01 to 2014-09-30
Water Level (ft.)
5244.0
5243.5
5243.0
5242.5
5242.0
5241.5
5241.0
5240.5
5240.0
5242 ft. (Bottom of Waste)
Oct
Nov
Dec
Jan
Feb
Mar
Apr
May
Jun
Jul
Aug
Sep
Date
Inside Slurry Wall
36240
36241
36238
Outside Slurry Wall
36237
36054
36239

Figure D-29
Lime Basins Dewatering System
Monitoring Well Water Elevations Inside Slurry Wall
and Total Flow Rate





Lime Basins Delineation of Suspected DNAPL Source Zones

Groundwater Mass Removal System

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

- Extraction Wells
- Monitoring Wells

LTMP Wells

- Monitoring Wells

Note: * = Also an LTMP Well

- Recharge Trench
- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)
- FY13 Monitoring Data
- DNAPL RI/FS Data

N

0 120 240 360

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-30

Army/Shell GIS

9/15/2015 RMITS

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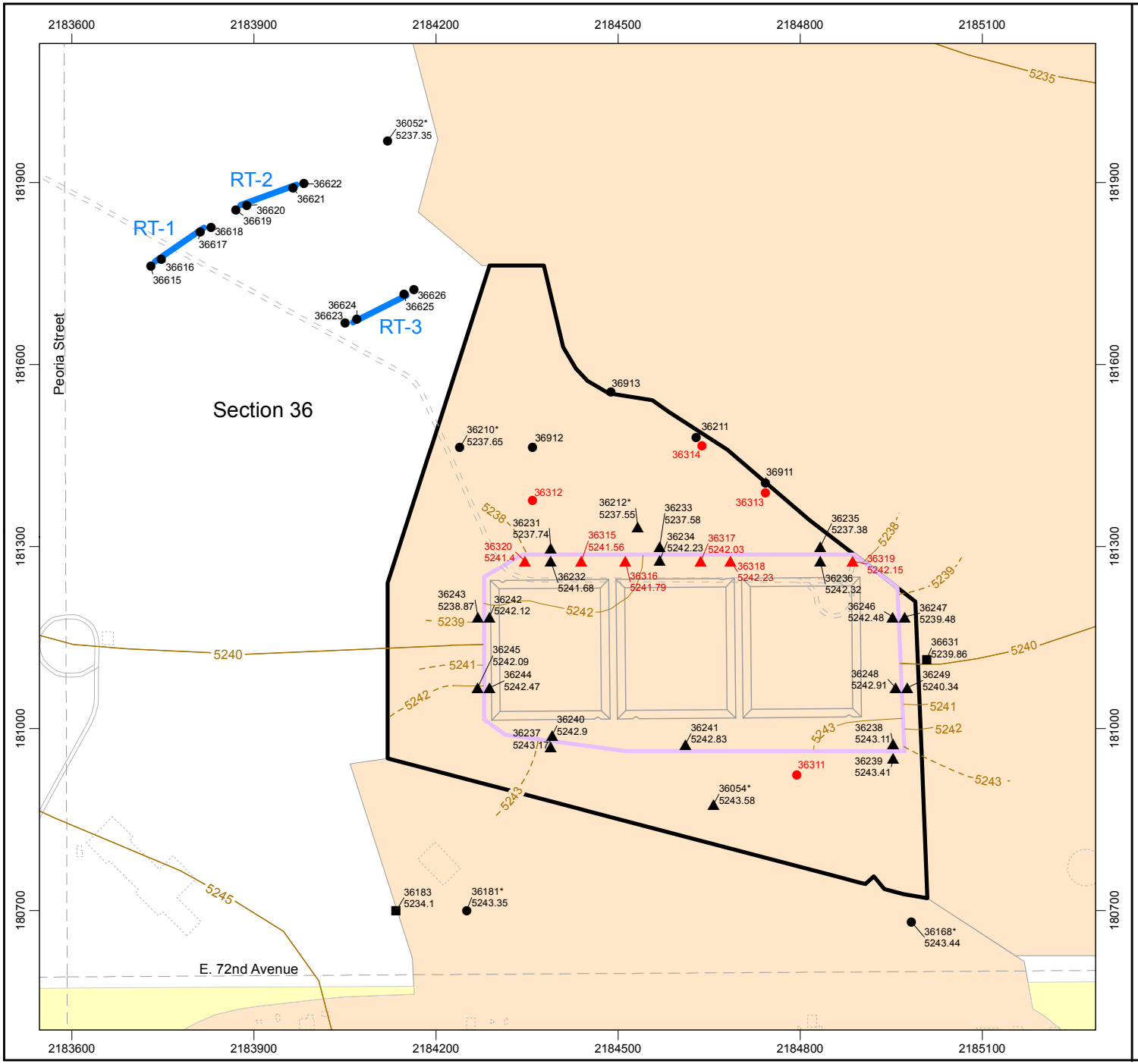

Lime Basins Groundwater System Water Table July - September 2014

Groundwater Mass Removal System

- Extraction Wells
- Monitoring Wells

Slurry Wall Dewatering System

- Extraction Wells
- Monitoring Wells

LTMP Wells

- Monitoring Wells

Note: * = Also an LTMP Well

- Recharge Trench
- Slurry Wall
- Lime Settling Basins
- Paved Road
- Unpaved Road
- Section Line
- Section 36 Lime Basins Project Boundary
- RCRA-Equivalent Cover
- 3-foot Soil Cover
- Structure Location (Removed)
- Water elevation contour - 1 ft interval. Hachures indicate depression. Water elevations collected July 2014
- Approximate water elevation contour

N

0 120 240 360

Feet

NAD27-NGVD29 Datum, US Survey Feet, Colorado North Zone

Sources: U.S. Army, RMA GIS, PMC, OMC, Shell/URS Corp.

Figure D-31

Army/Shell GIS

9/15/2015 RMITS

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