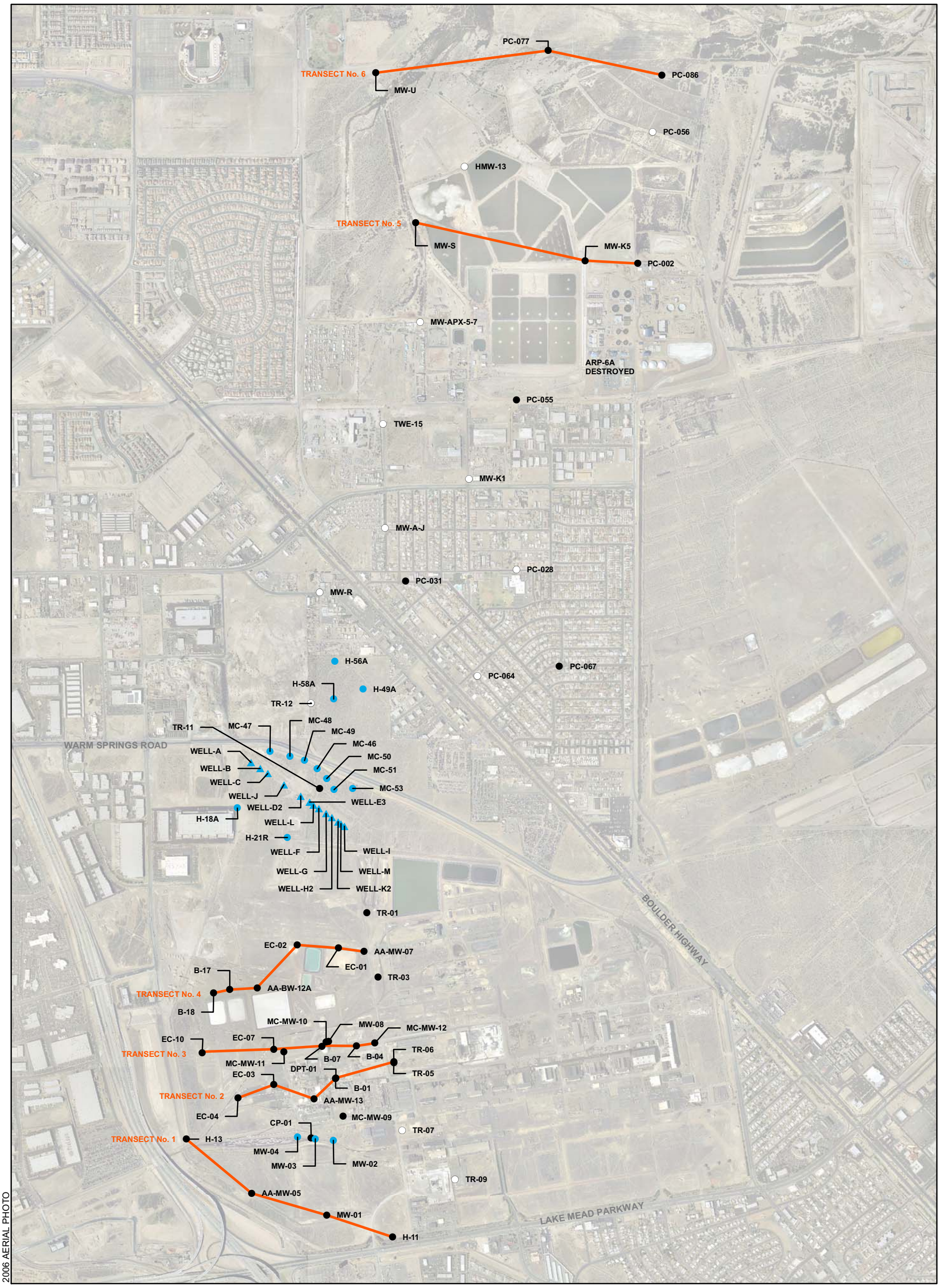

EXPLANATION

QUARTERLY GROUNDWATER MONITORING PROGRAM LOCATION

- ● **B-17** MONITOR WELL IDENTIFIER
  GROUNDWATER QUALITY AND WATER LEVEL MONITORING LOCATION
- ○ **MW-A-J** MONITOR WELL IDENTIFIER
  WATER LEVEL MONITORING LOCATION

ROUTINE GROUNDWATER MONITORING LOCATION

- ● **MC-47** MONITOR WELL IDENTIFIER
  CONSENT ORDER WELLS / TRANSECT WELLS / CLOSED POND WELLS
- ▲ **WELL-A** MONITOR WELL IDENTIFIER
  EXTRACTION WELL
- — TRANSECT

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

STUDY AREA

HARGIS + ASSOCIATES, INC.
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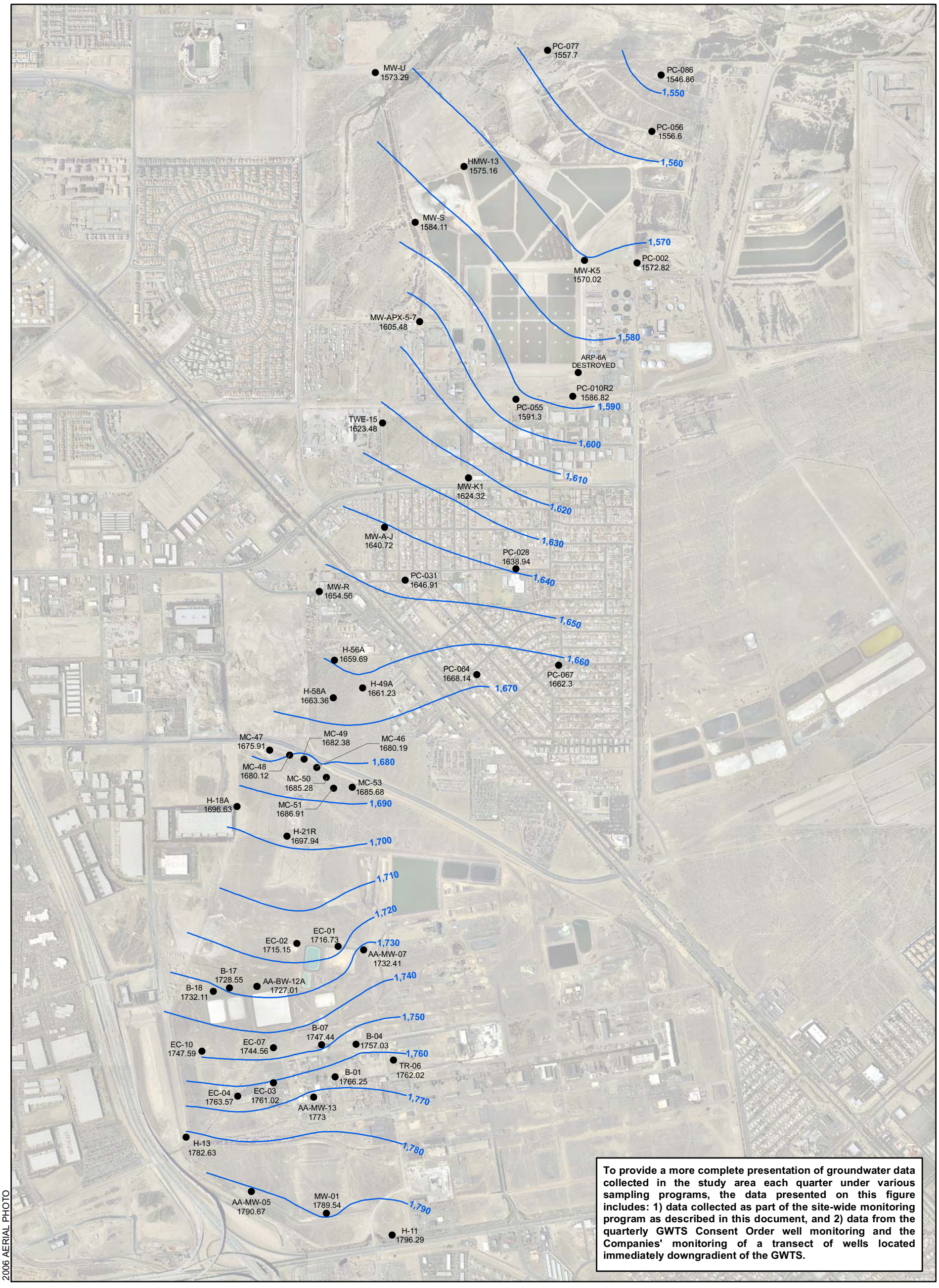
FIGURE 1

PREP BY JWM REV BY BRW RPT NO 754.28 StudyArea.mxd



To provide a more complete presentation of groundwater data collected in the study area each quarter under various sampling programs, the data presented on this figure includes: 1) data collected as part of the site-wide monitoring program as described in this document, and 2) data from the quarterly GWTS Consent Order well monitoring and the Companies' monitoring of a transect of wells located immediately downgradient of the GWTS.

EXPLANATION

● **H-11** **1,796.29** — MONITOR WELL IDENTIFIER; WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

—— **1,790** — APPROXIMATE CONTOUR LINE OF EQUAL WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

WATER LEVELS
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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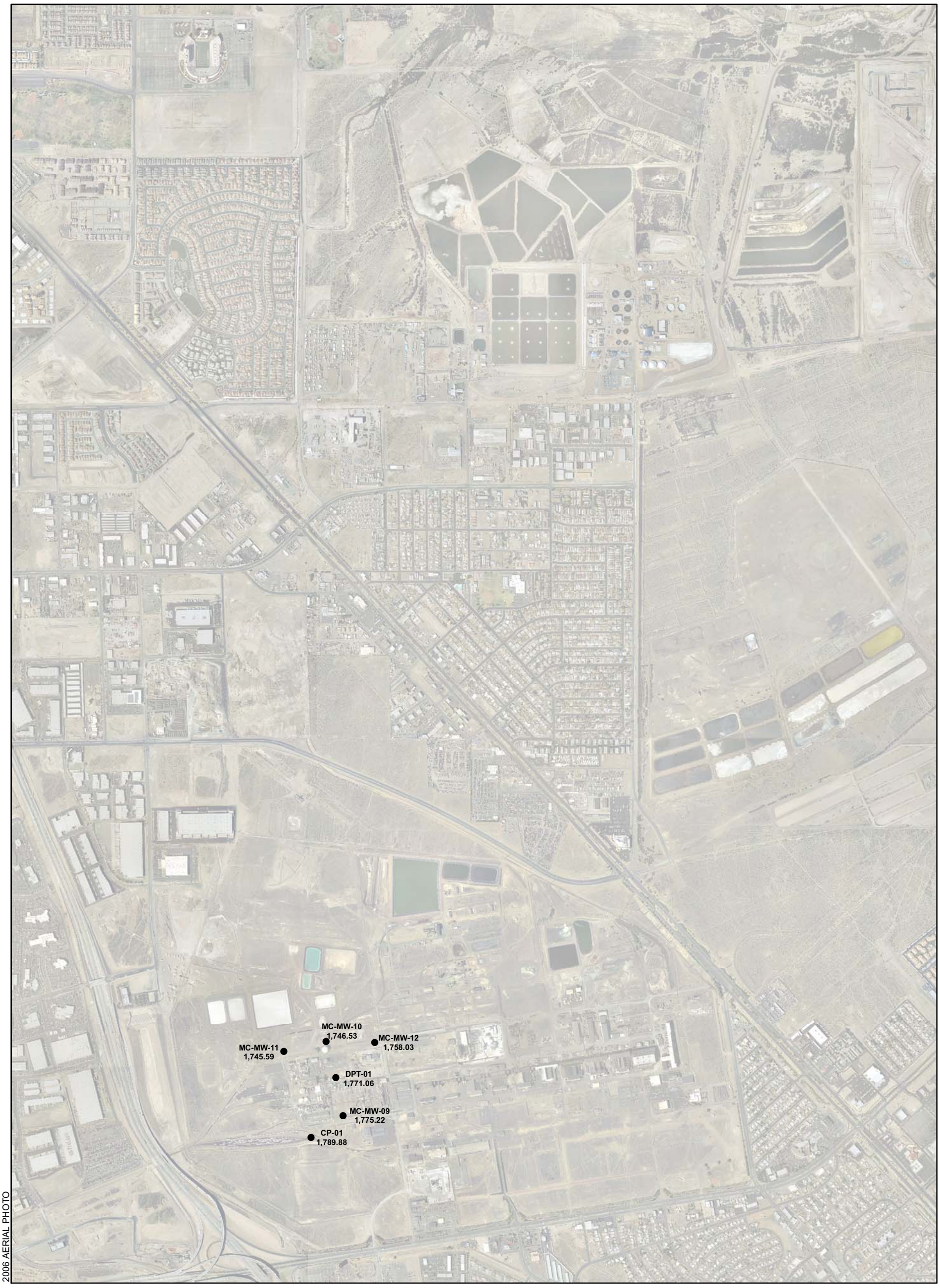
FIGURE 2

PREP BY JWM REV BY BRW RPT NO 754.28 WLs-Alluvial.mxd



2006 AERIAL PHOTO

EXPLANATION

● **CP-01 1,789.88** MONITOR WELL IDENTIFIER
WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

WATER LEVELS
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

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FIGURE 3

PREP BY JWM REV BY BRW RPT NO 754.28 WLs-2ndWB.mxd

EXPLANATION

● **TR-09 1,808.86** MONITOR WELL IDENTIFIER
WATER LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

WATER LEVELS
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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FIGURE 4

PREP BY JWM REV BY BRW RPT NO 754.28 | WLs-3rdWB.mxd

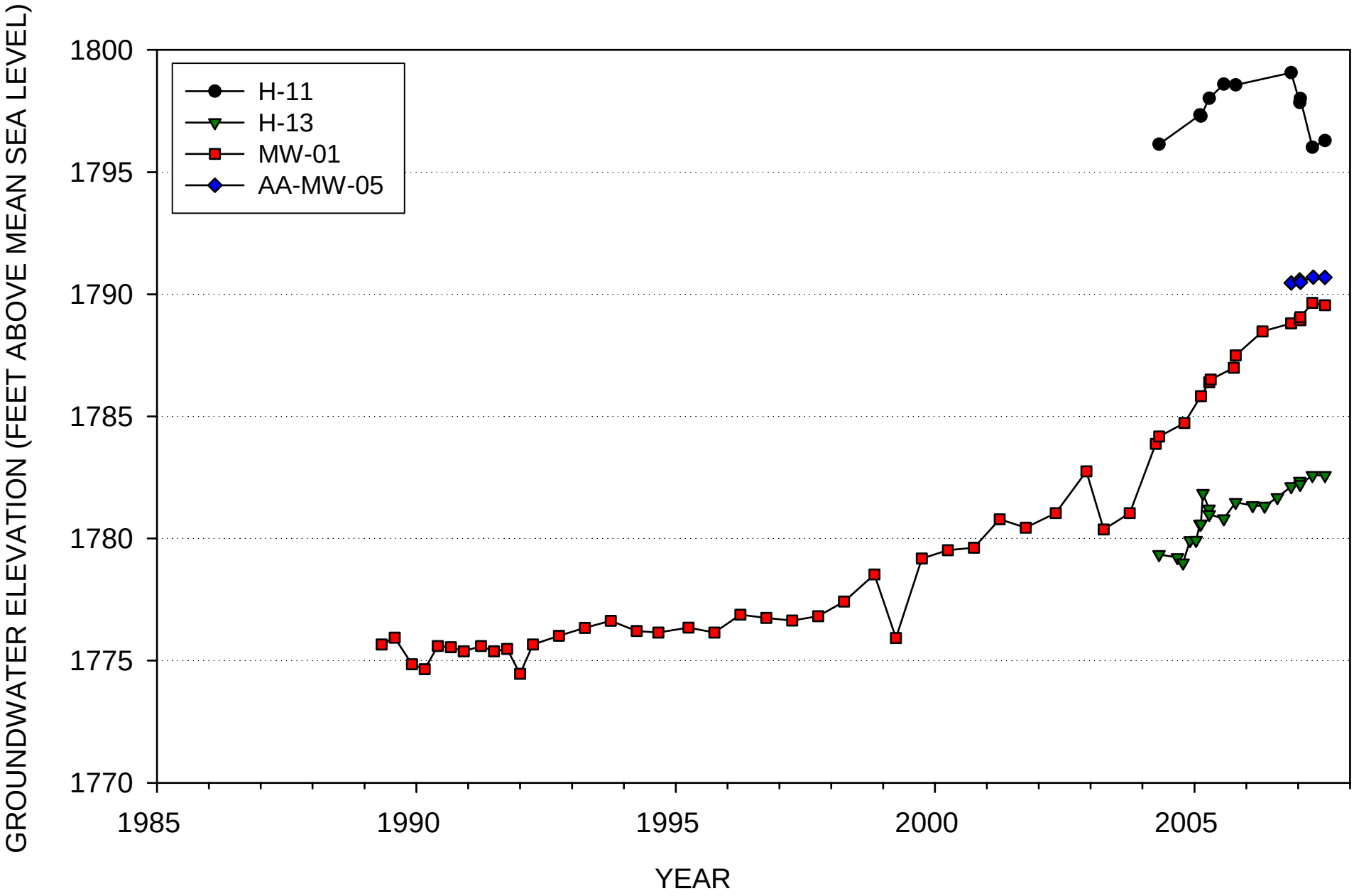


FIGURE 5. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 1

HARGIS + ASSOCIATES, INC.

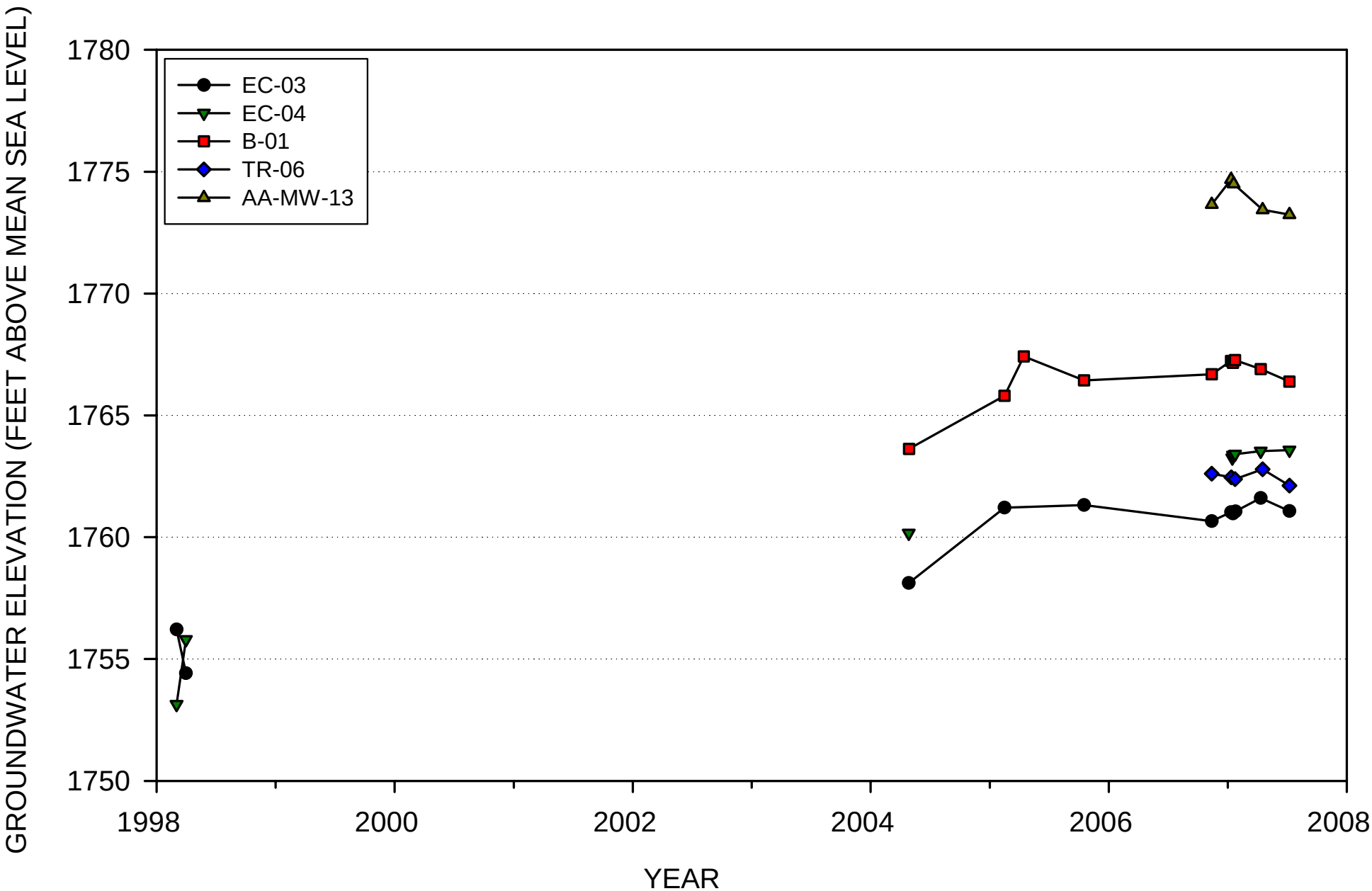


FIGURE 6. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 2

HARGIS + ASSOCIATES, INC.

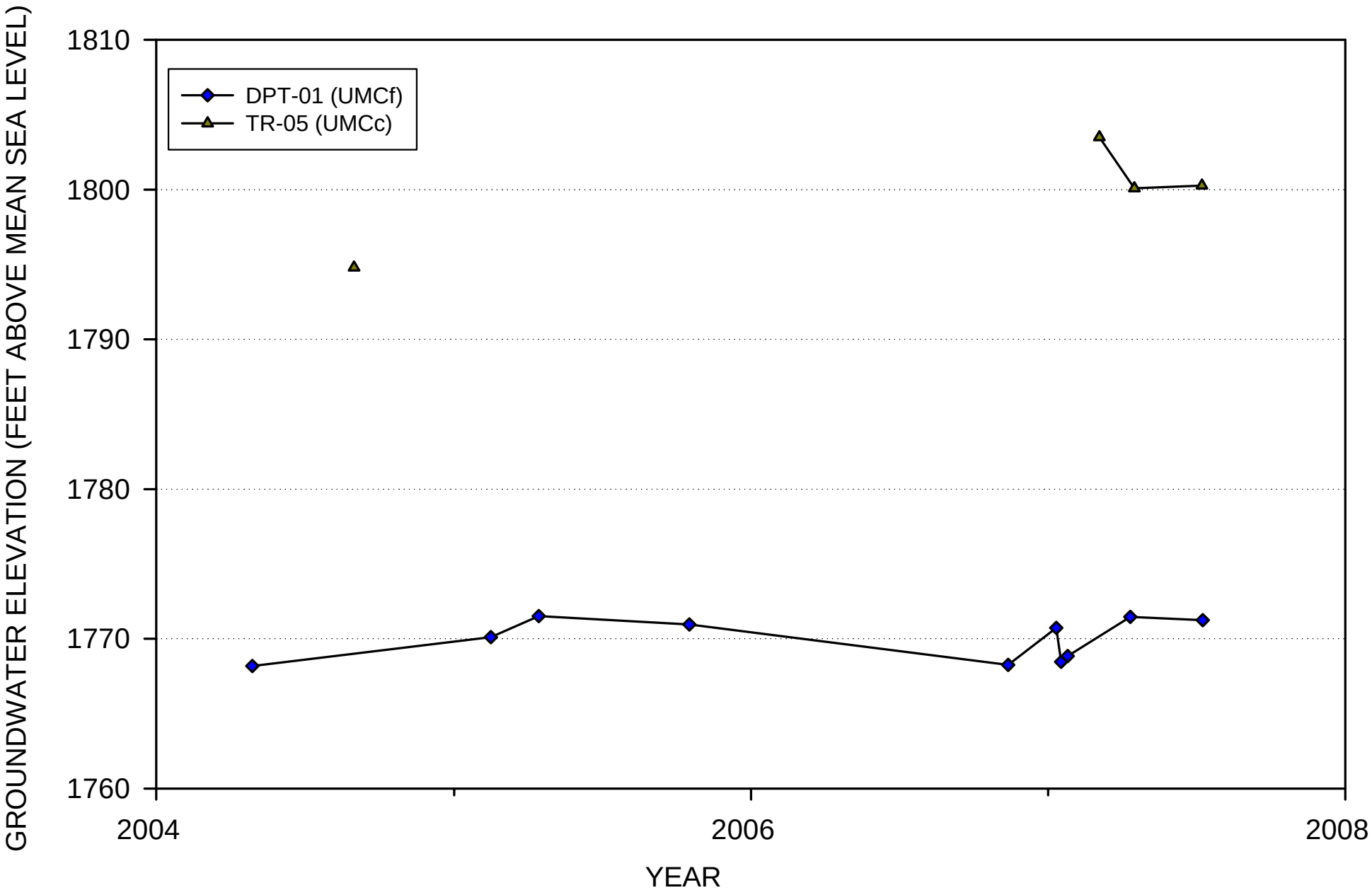


FIGURE 7. WATER LEVEL HYDROGRAPHS - UPPER MUDDY CREEK MONITOR WELLS - TRANSECT NO. 2

UMCf = fine grained Upper Muddy Creek formation
UMCc = coarse grained Upper Muddy Creek formation

HARGIS + ASSOCIATES, INC.

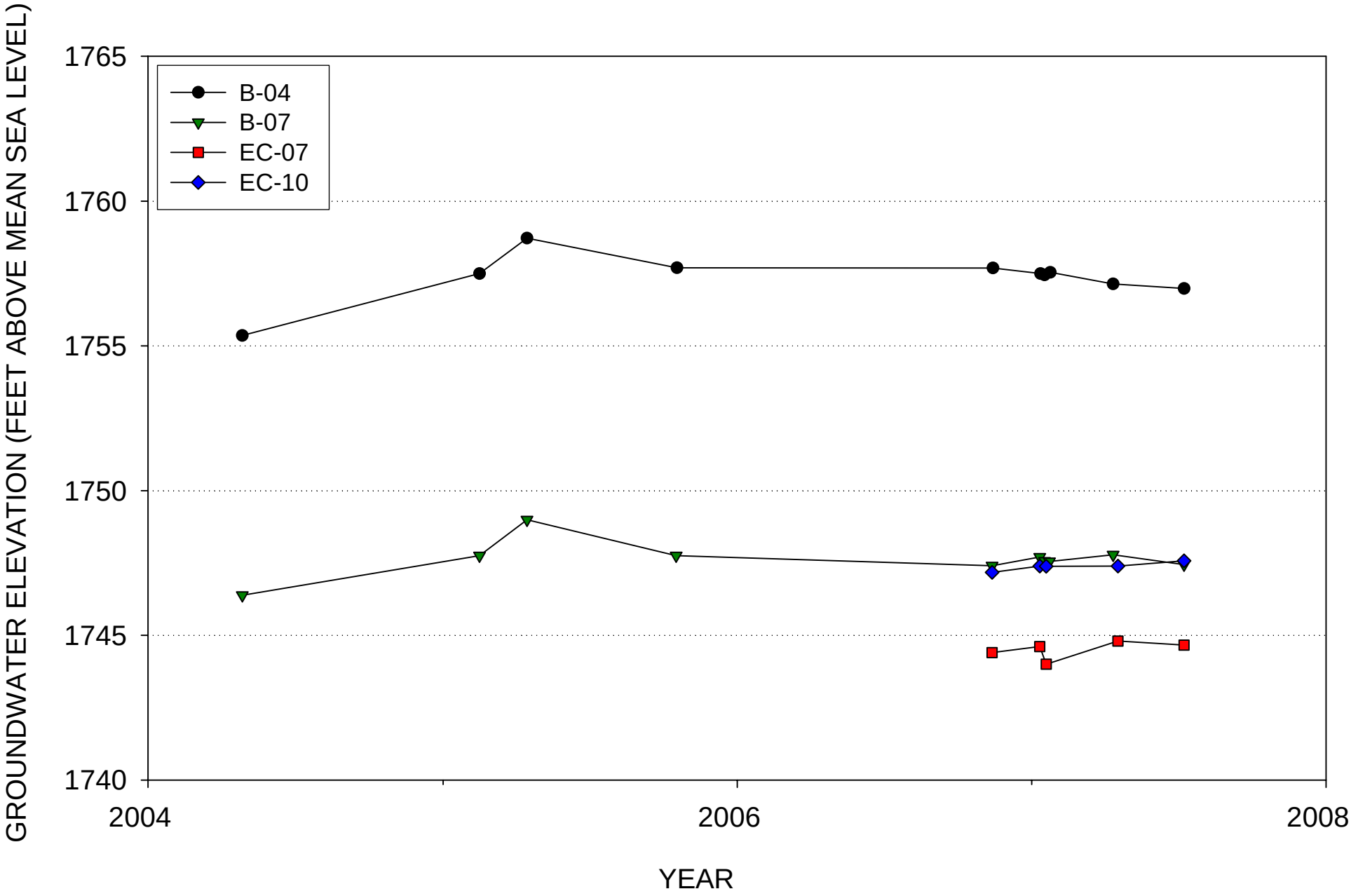


FIGURE 8. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 3

HARGIS + ASSOCIATES, INC.

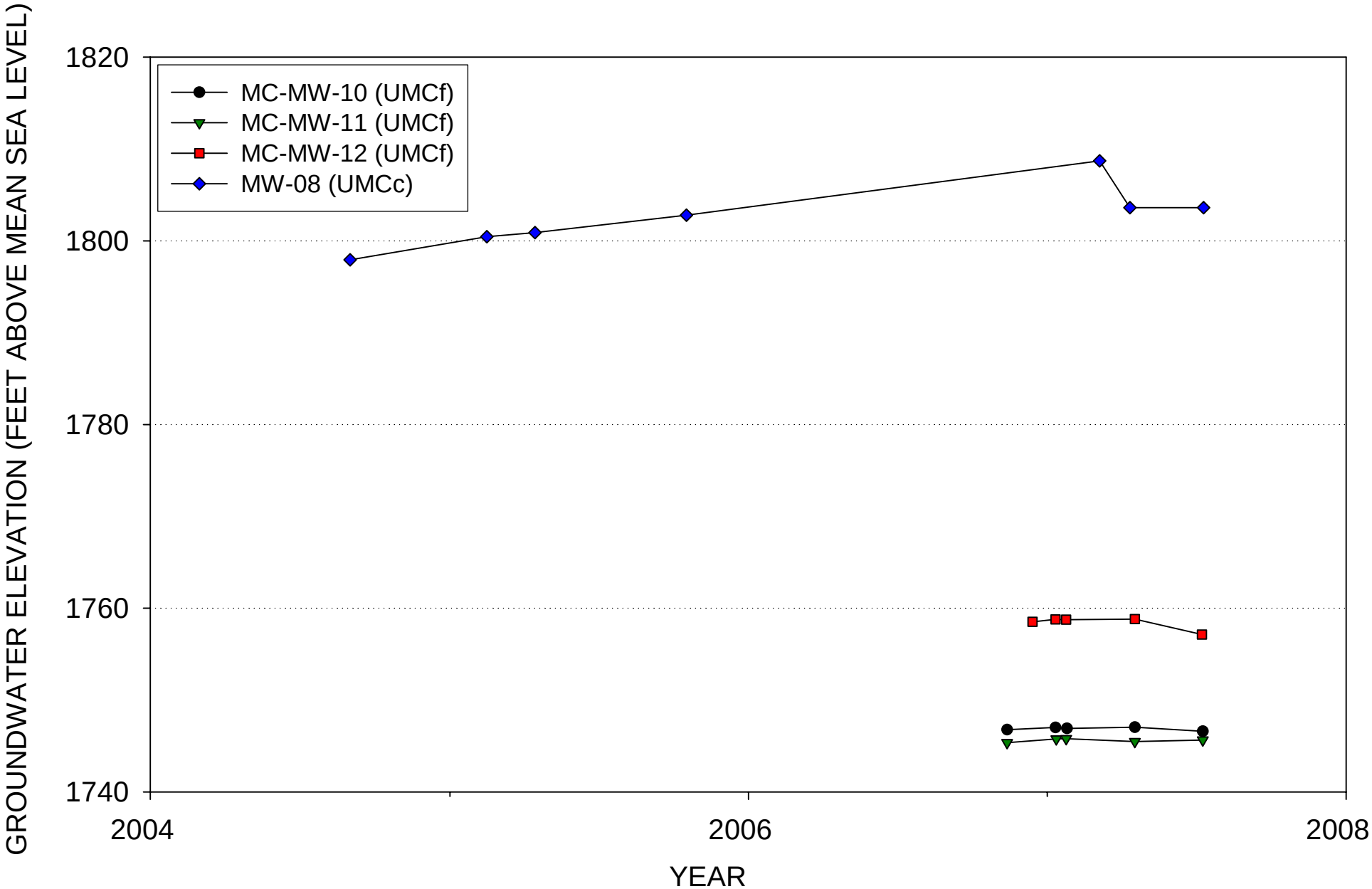


FIGURE 9. WATER LEVEL HYDROGRAPHS - UPPER MUDDY CREEK MONITOR WELLS - TRANSECT NO. 3

HARGIS + ASSOCIATES, INC.

UMCf = fine grained Upper Muddy Creek formation

UMCc = coarse grained Upper Muddy Creek formation

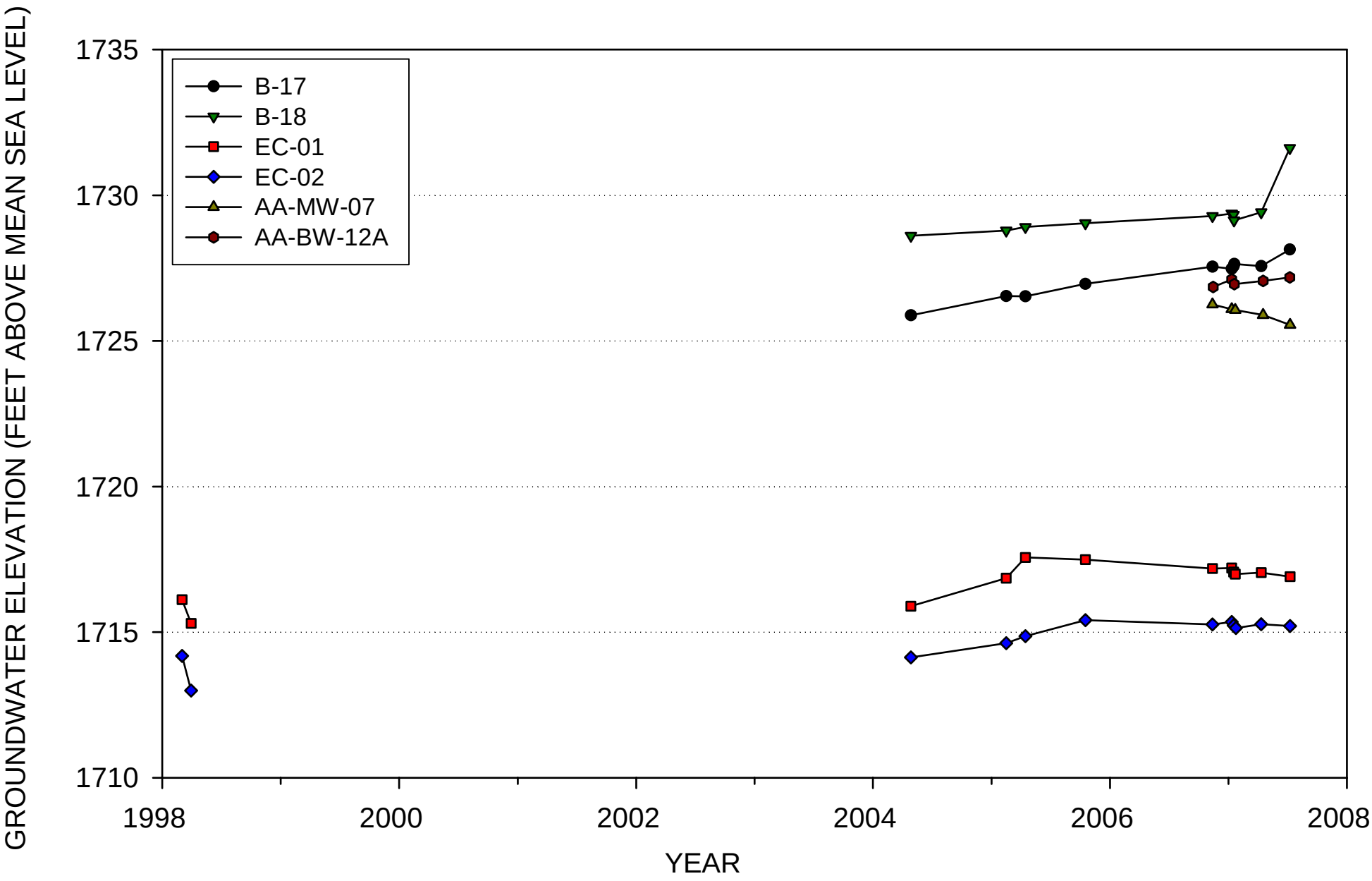


FIGURE 10. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 4

HARGIS + ASSOCIATES, INC.

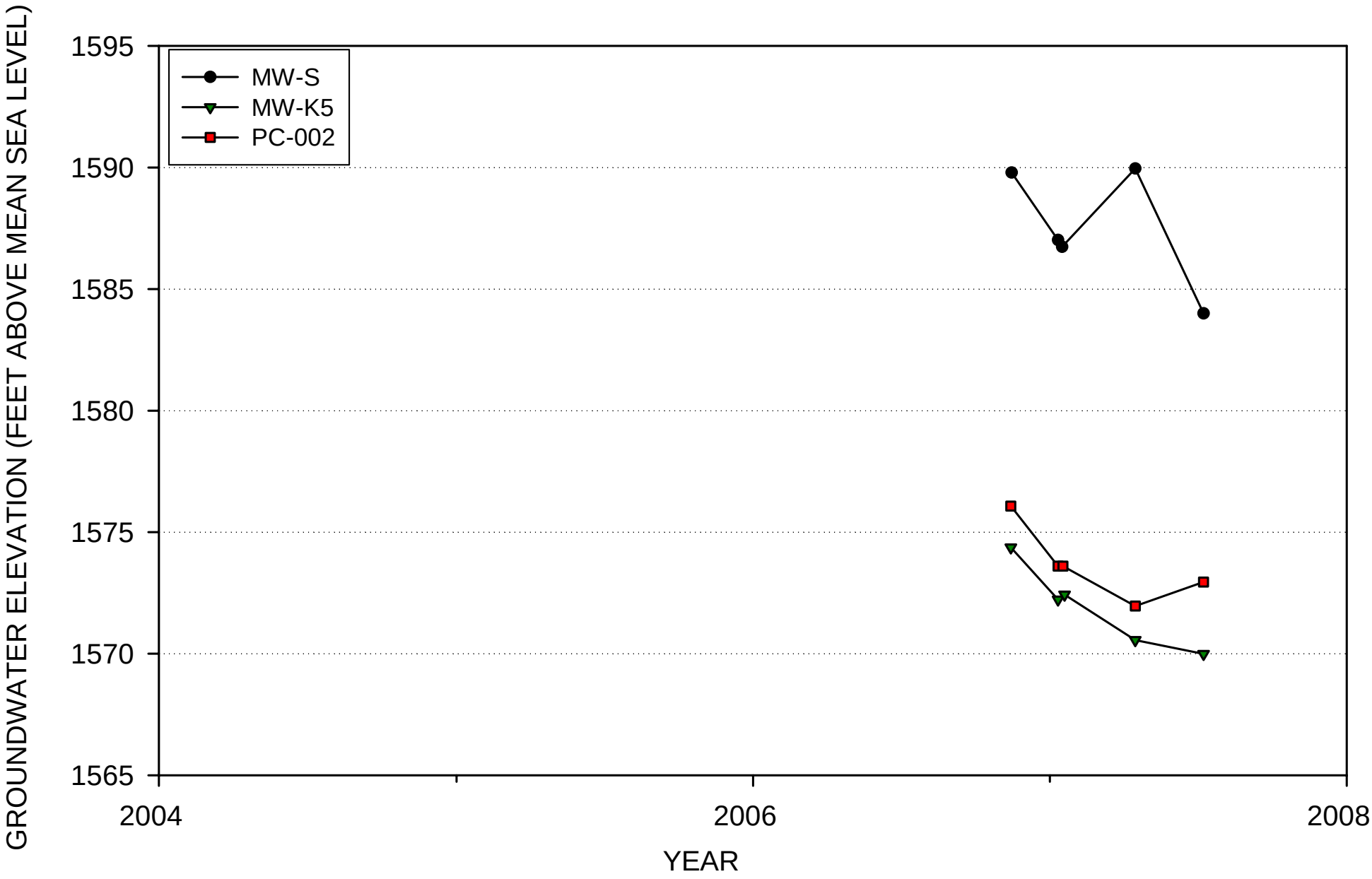


FIGURE 11. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 5

HARGIS + ASSOCIATES, INC.

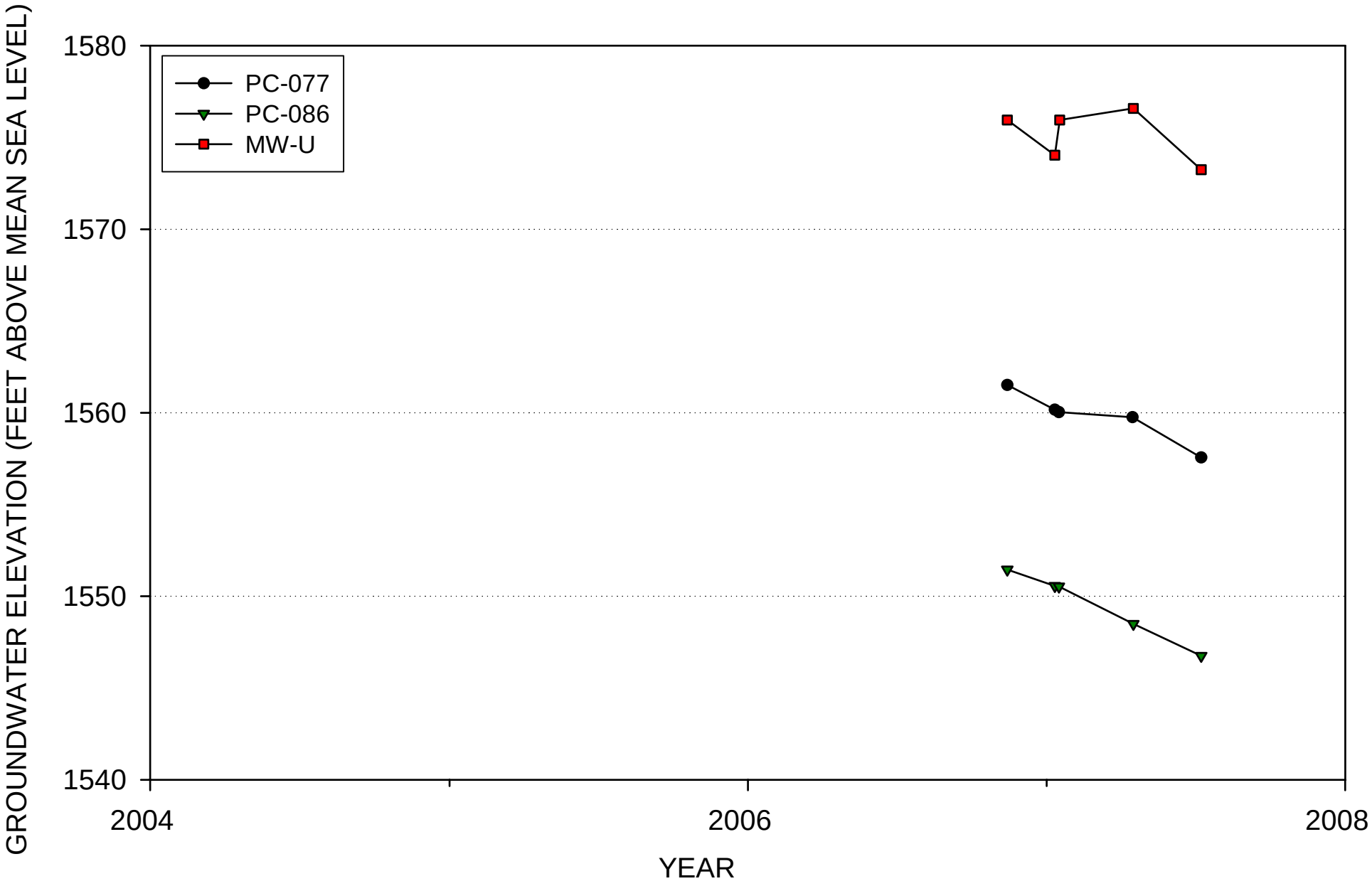
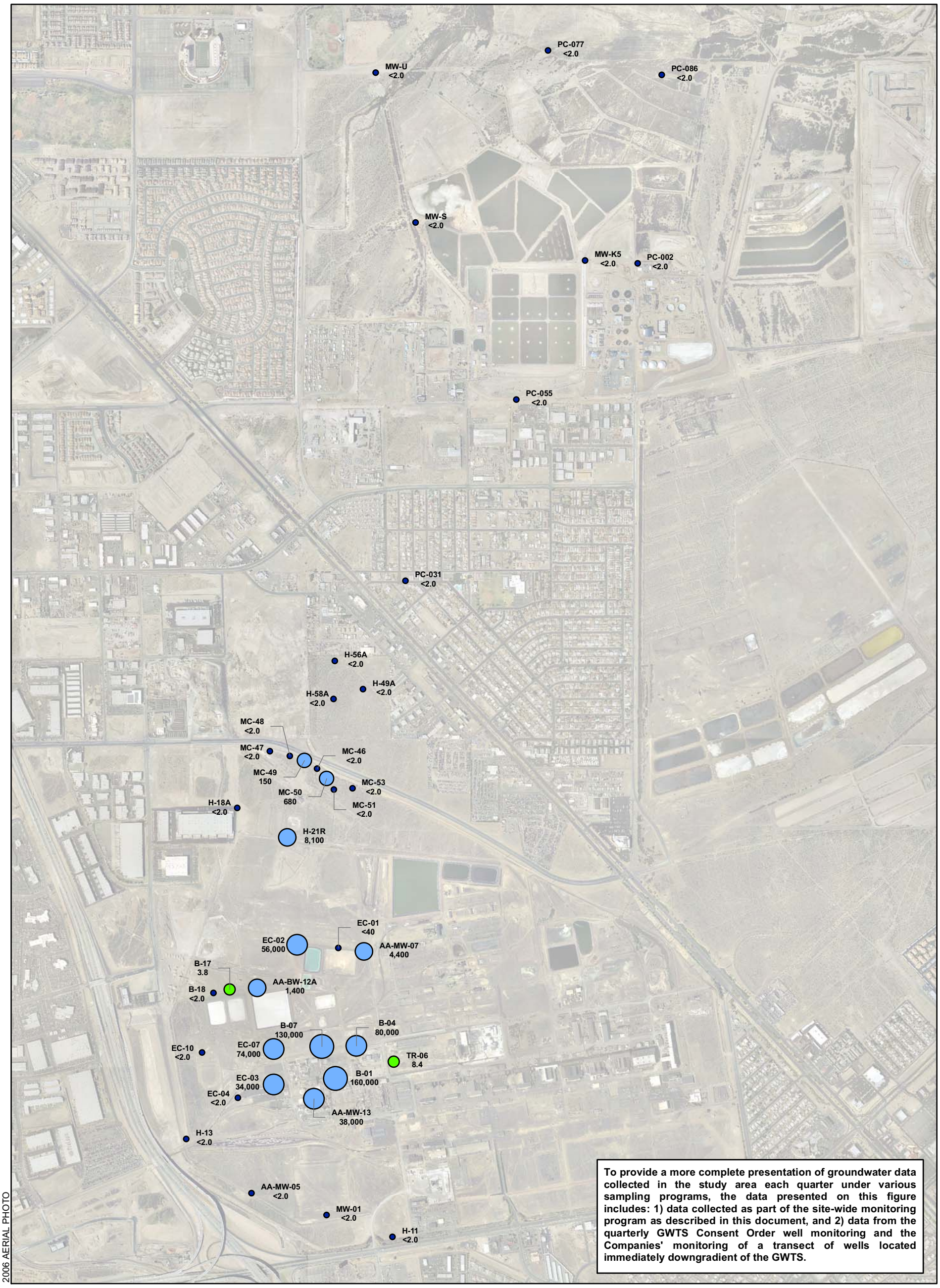


FIGURE 12. WATER LEVEL HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 6

HARGIS + ASSOCIATES, INC.



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EXPLANATION

CHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 100 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

B-17 3.8 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROBENZENE
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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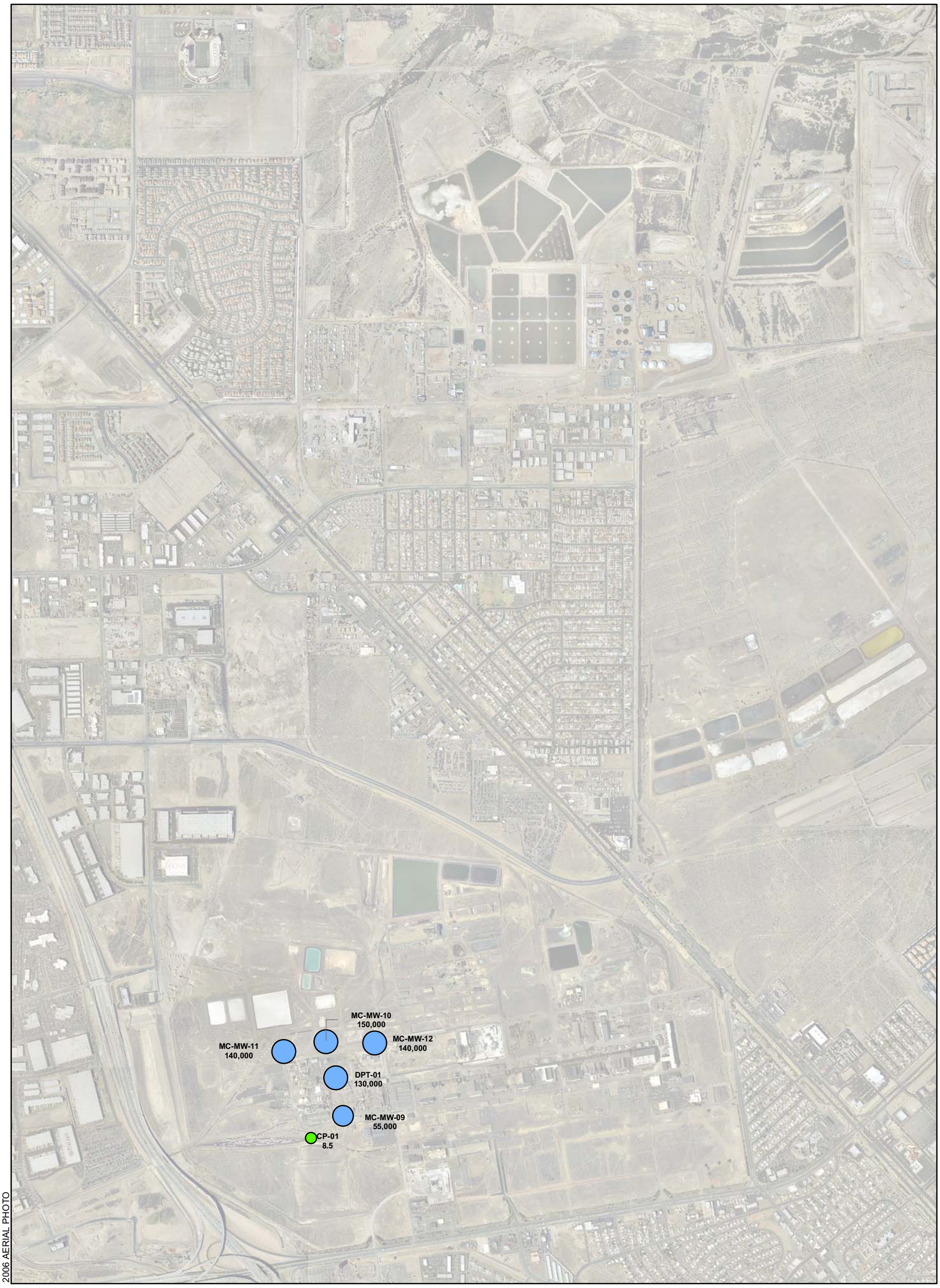
FIGURE 13

PREP BY JWM REV BY BRW RPT NO 754.28 MCB-Alluvial.mxd



EXPLANATION

CHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 100 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

CP-01 / 8.5 — MONITOR WELL IDENTIFIER / CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROBENZENE
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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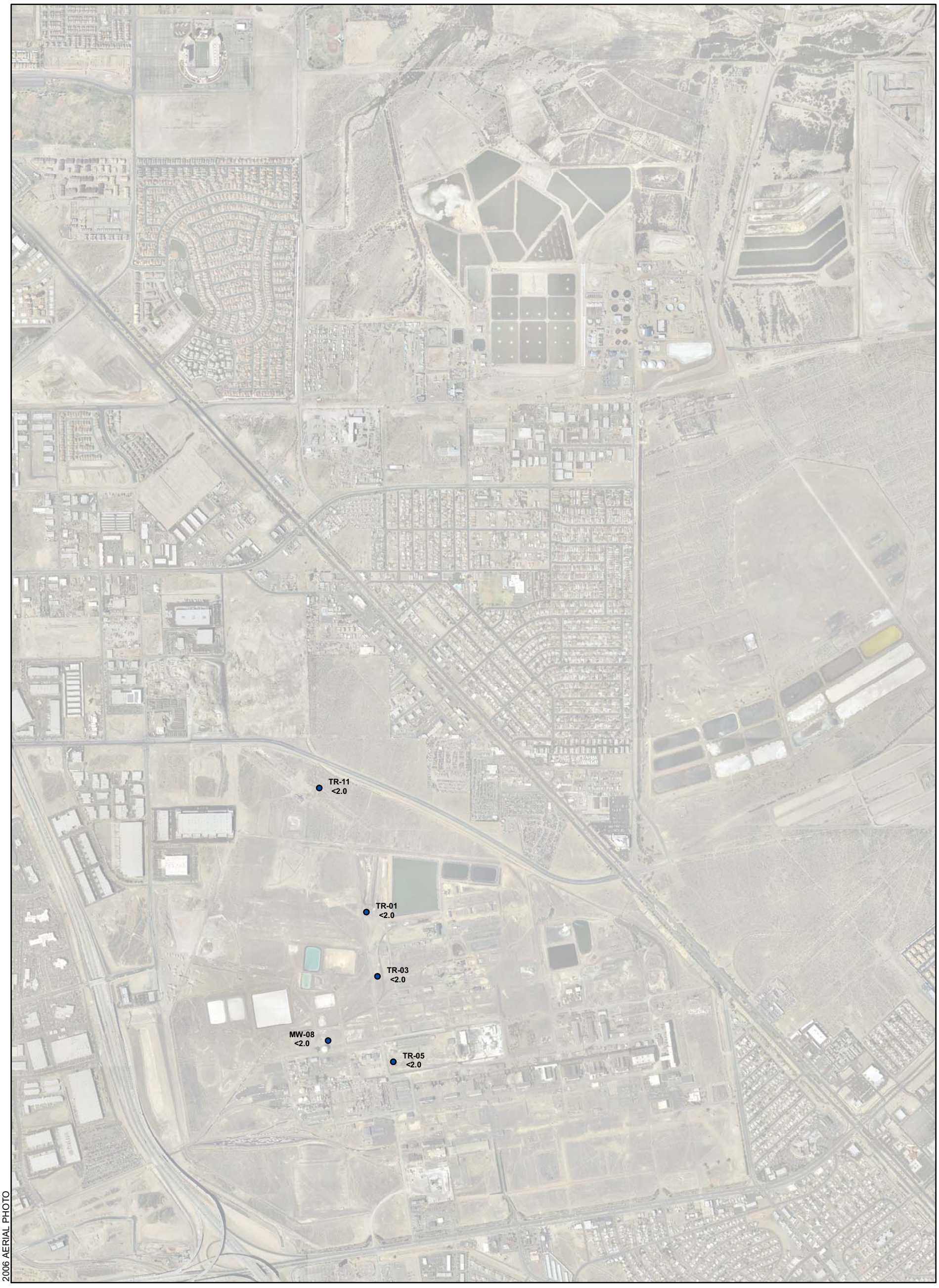
FIGURE 14

PREP BY JWM REV BY BRW RPT NO 754.28 MCB-2ndWB.mxd



EXPLANATION

CHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 100 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

TR-05 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROBENZENE
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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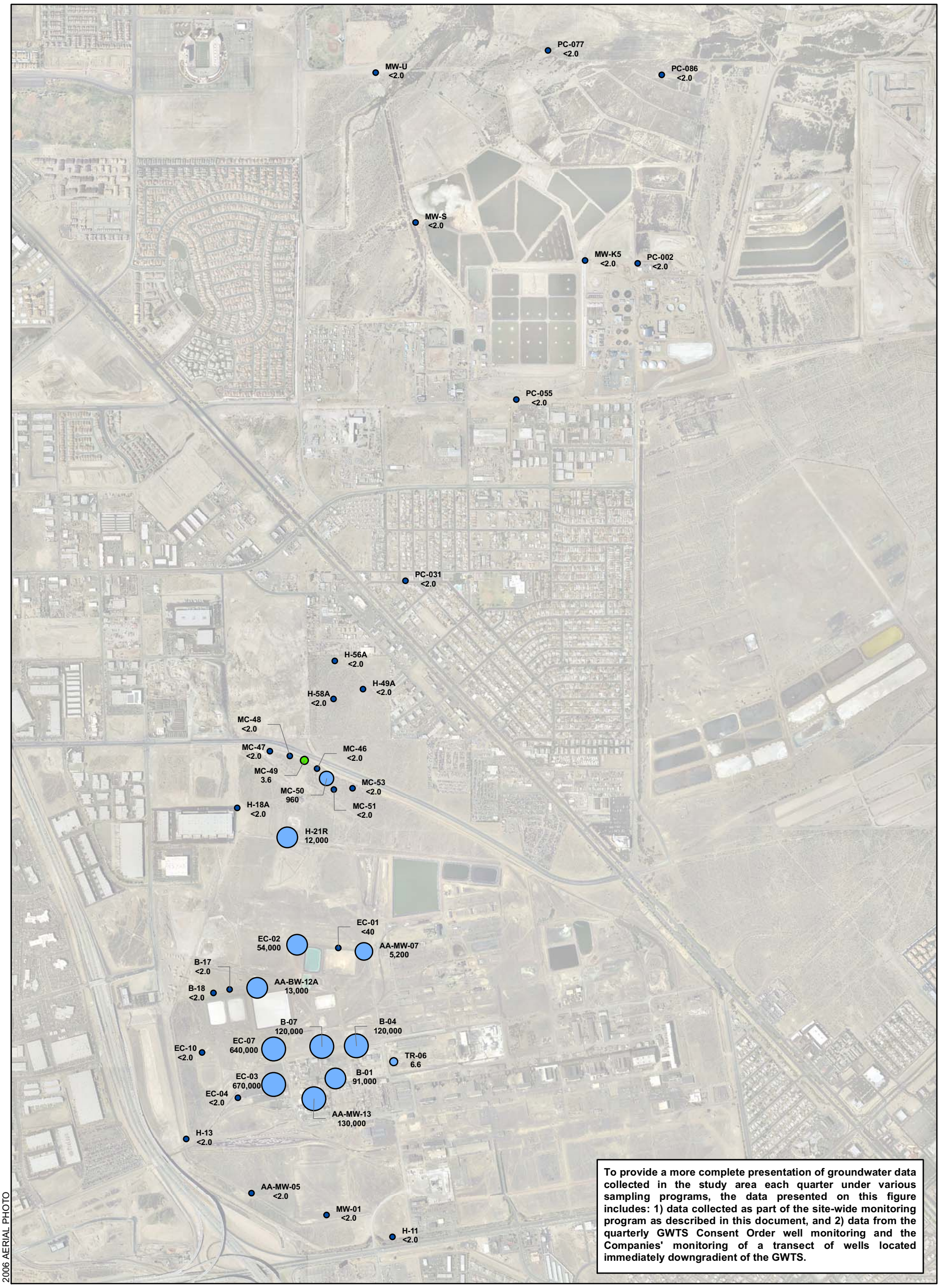
FIGURE 15

PREP BY JWM REV BY BRW RPT NO 754.28 MCB-3rdWB.mxd



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EXPLANATION

BENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- <5 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 5.0 - 10 ug/l
- 10 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

B-17 <2.0 — MONITOR WELL
CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BENZENE
ALLUVIAL AQUIFER
THIRD QUARTER 2007

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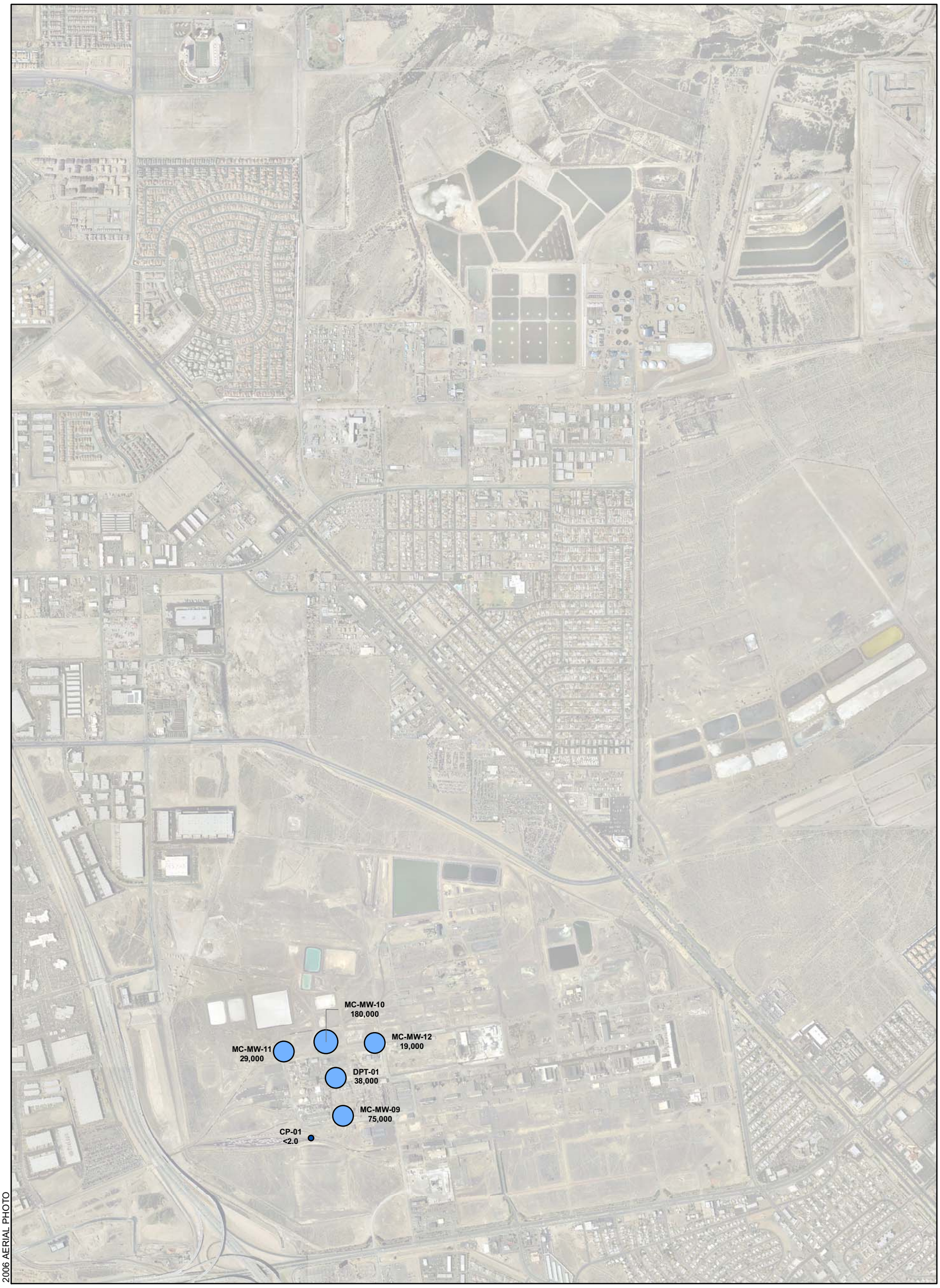
FIGURE 16

PREP BY JWM REV BY BRW RPT NO 754.28 Benzene-Alluvial.mxd



EXPLANATION

BENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- <5 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 5.0 - 10 ug/l
- 10 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

CP-01 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BENZENE
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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FIGURE 17

PREP BY JWM REV BY BRW RPT NO 754.28 Benzene-2ndWB.mxd

EXPLANATION

BENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- <5 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 5.0 - 10 ug/l
- 10 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

TR-05 <2.0 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BENZENE
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

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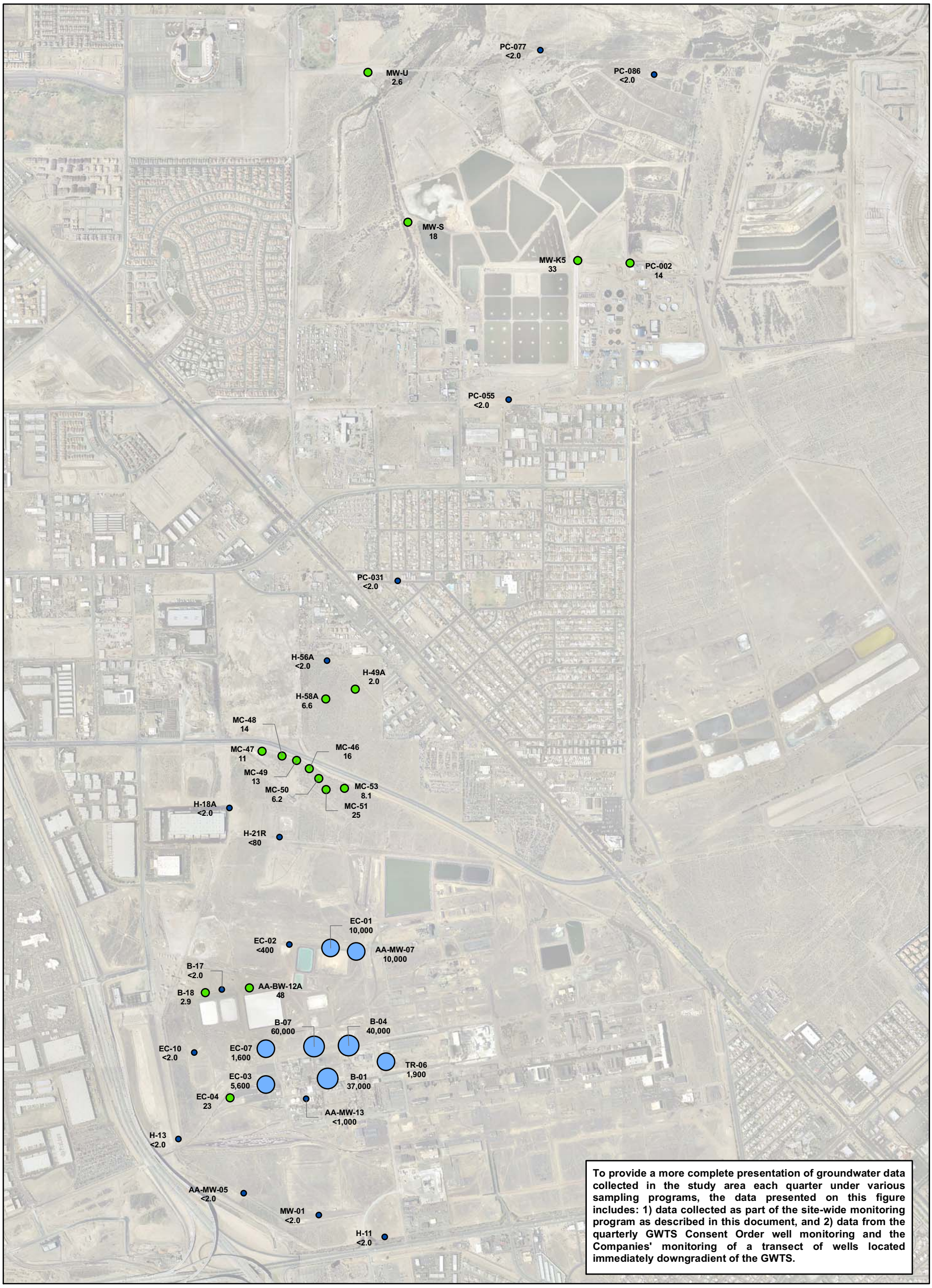
FIGURE 18

PREP BY JWM REV BY BRW RPT NO 754.28 Benzene-3rdWB.mxd



2006 AERIAL PHOTO

EXPLANATION

CHLOROFORM CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 80 ug/l (MAXIMUM CONTAMINANT LEVEL FOR TTHM)
- 80 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

B-17 <2.0 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MICROGRAMS PER LITER JULY 2006

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

TTHM — TOTAL TRIHALOMETHANES (BROMODICHLOROMETHANE + BROMOFORM + CHLOROFORM + DIBROMOCHLOROMETHANE)

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROFORM
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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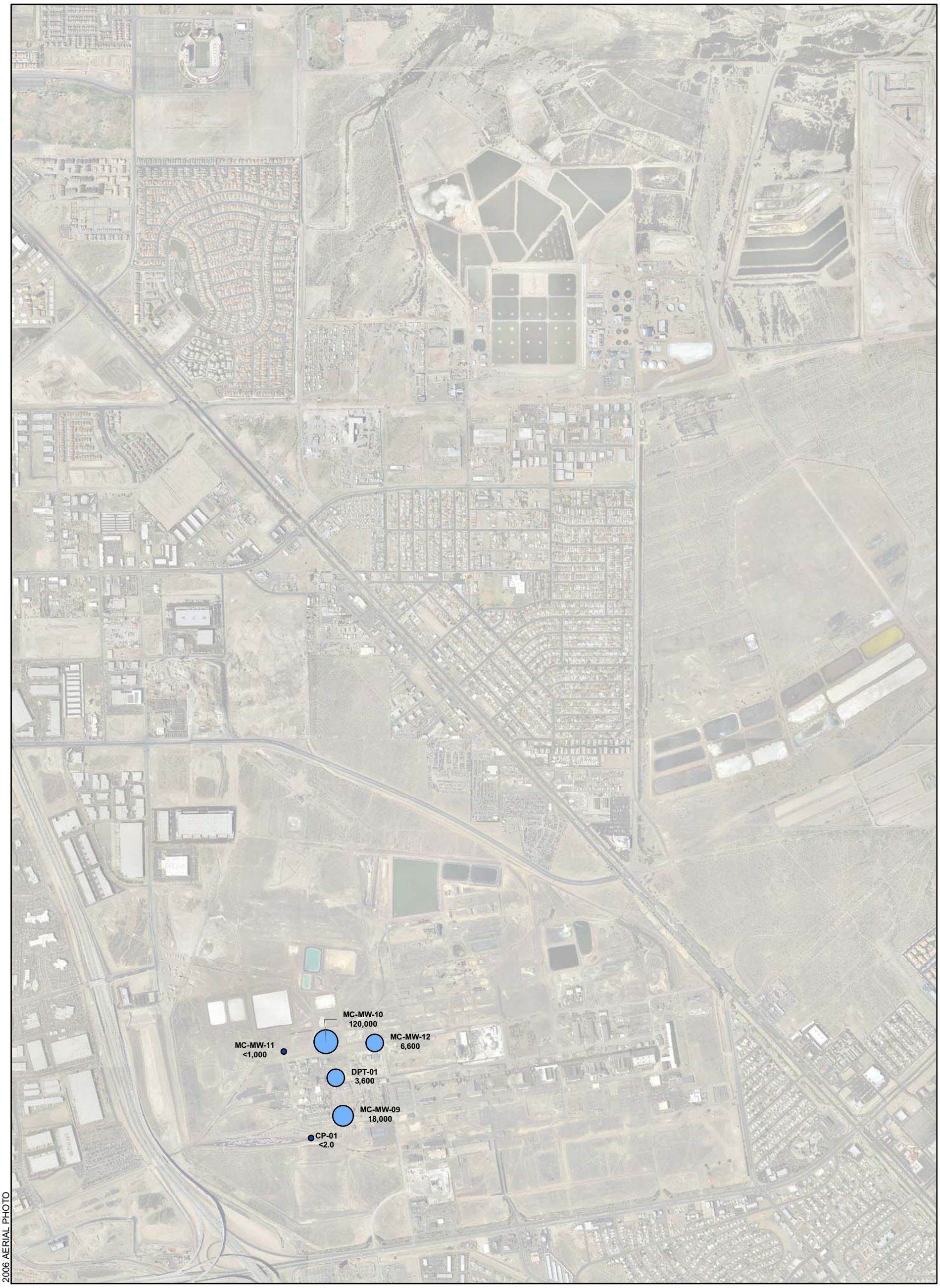
FIGURE 19

PREP BY JWM REV BY BRW RPT NO 754.28 Chloroform-Alluvial.mxd



EXPLANATION

CHLOROFORM CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 80 ug/l (MAXIMUM CONTAMINANT LEVEL FOR TTHM)
- 80 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

CP-01 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER JULY 2006

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

TTHM TOTAL TRIHALOMETHANES (BROMODICHLOROMETHANE + BROMOFORM + CHLOROFORM + DIBROMOCHLOROMETHANE)

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROFORM
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

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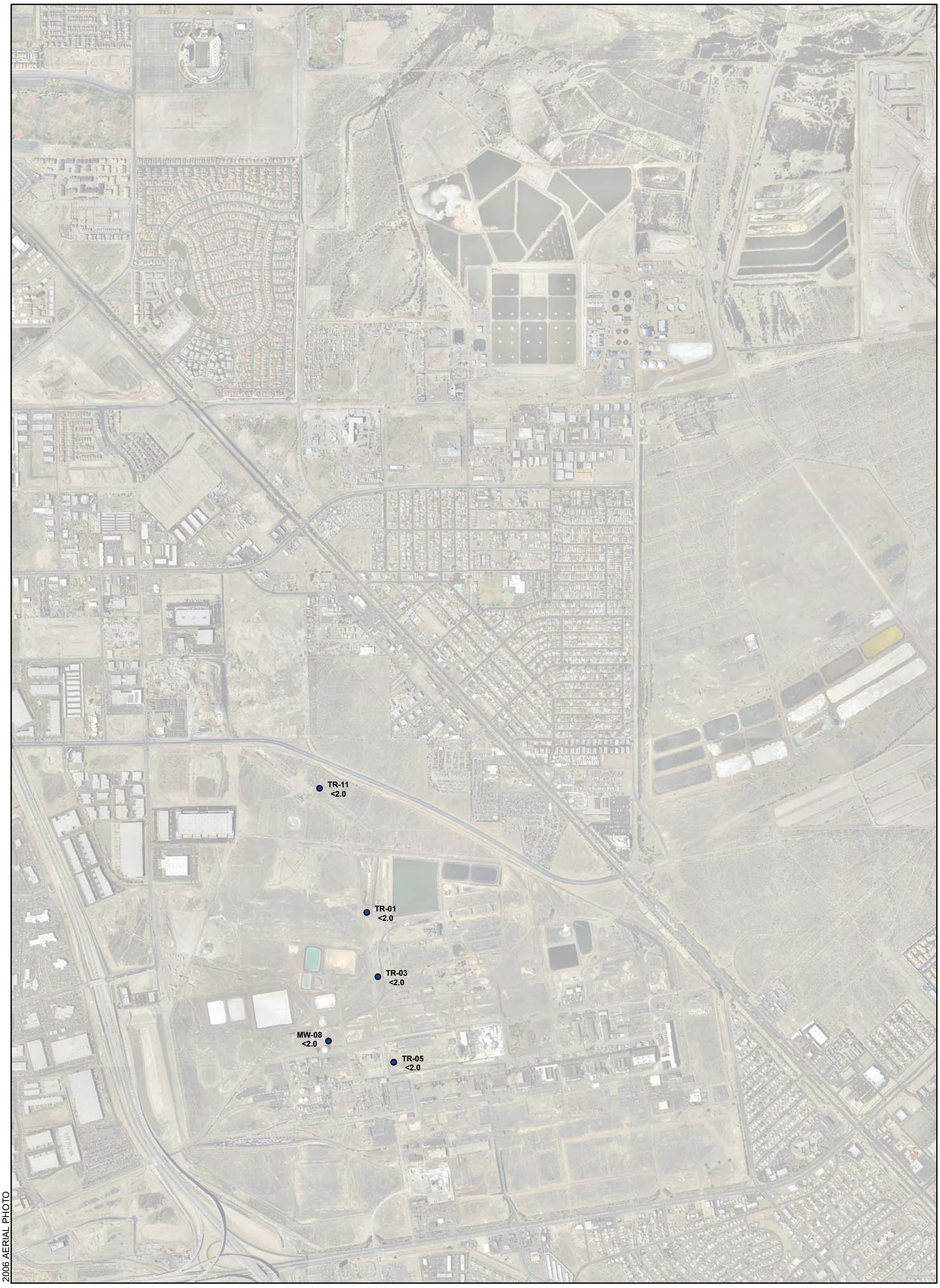
FIGURE 20

PREP BY JWM REV BY BRW RPT NO 754.28 chloroform-2ndWB.mxd



EXPLANATION

CHLOROFORM CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 80 ug/l (MAXIMUM CONTAMINANT LEVEL FOR TTHM)
- 80 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

TR-05 MONITOR WELL IDENTIFIER
<2.0 CONCENTRATION IN MICROGRAMS PER LITER JULY 2006

< LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l MICROGRAMS PER LITER

TTHM TOTAL TRIHALOMETHANES (BROMODICHLOROMETHANE + BROMOFORM + CHLOROFORM + DIBROMOCHLOROMETHANE)

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

CHLOROFORM
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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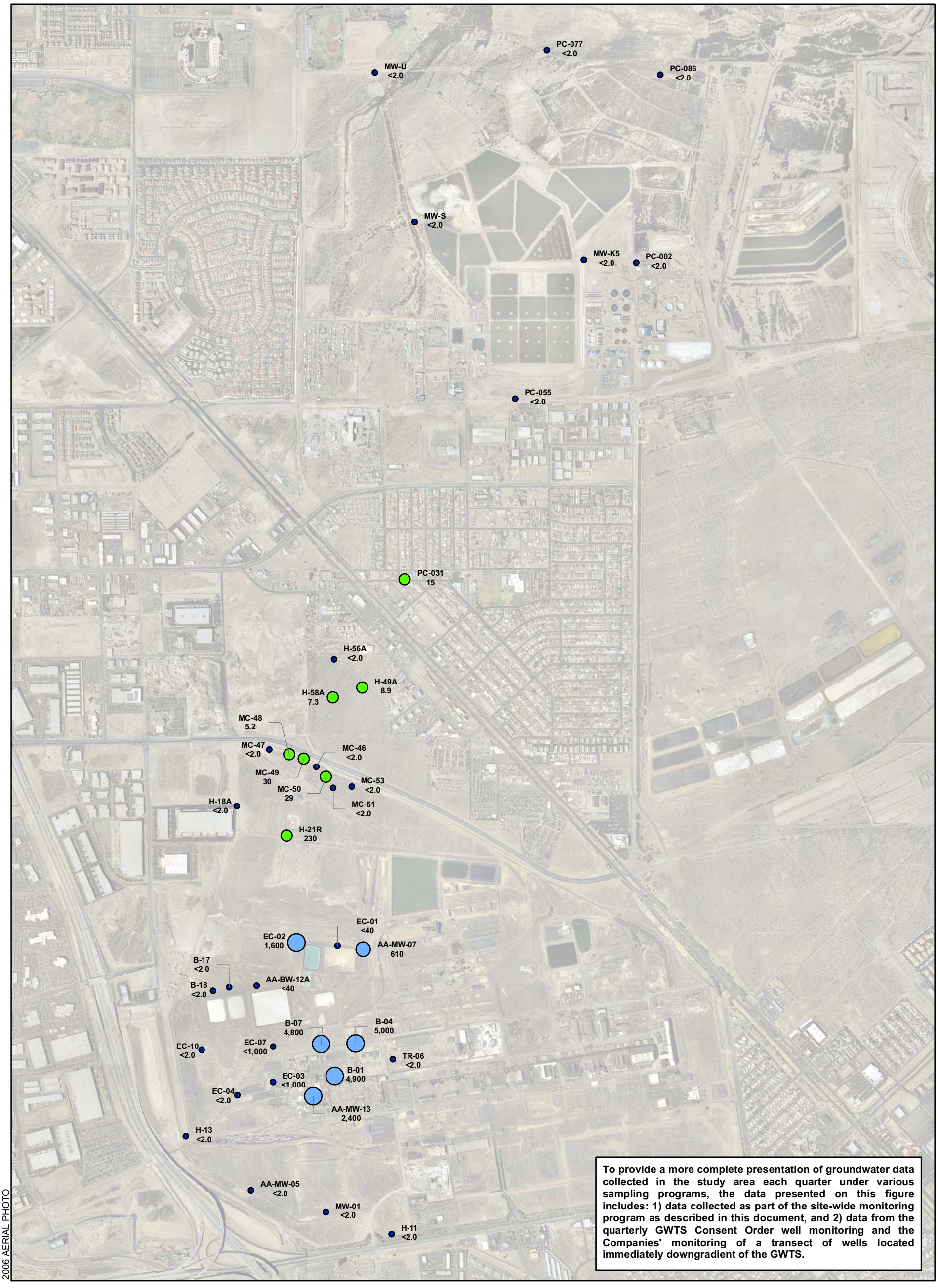
FIGURE 21

PREP BY JWM REV BY BRW RPT NO 754.28 Chloroform-3rdWB.mxd



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EXPLANATION

1,2-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 600 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 600 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

H-11 <2.0 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,2-DICHLOROBENZENE
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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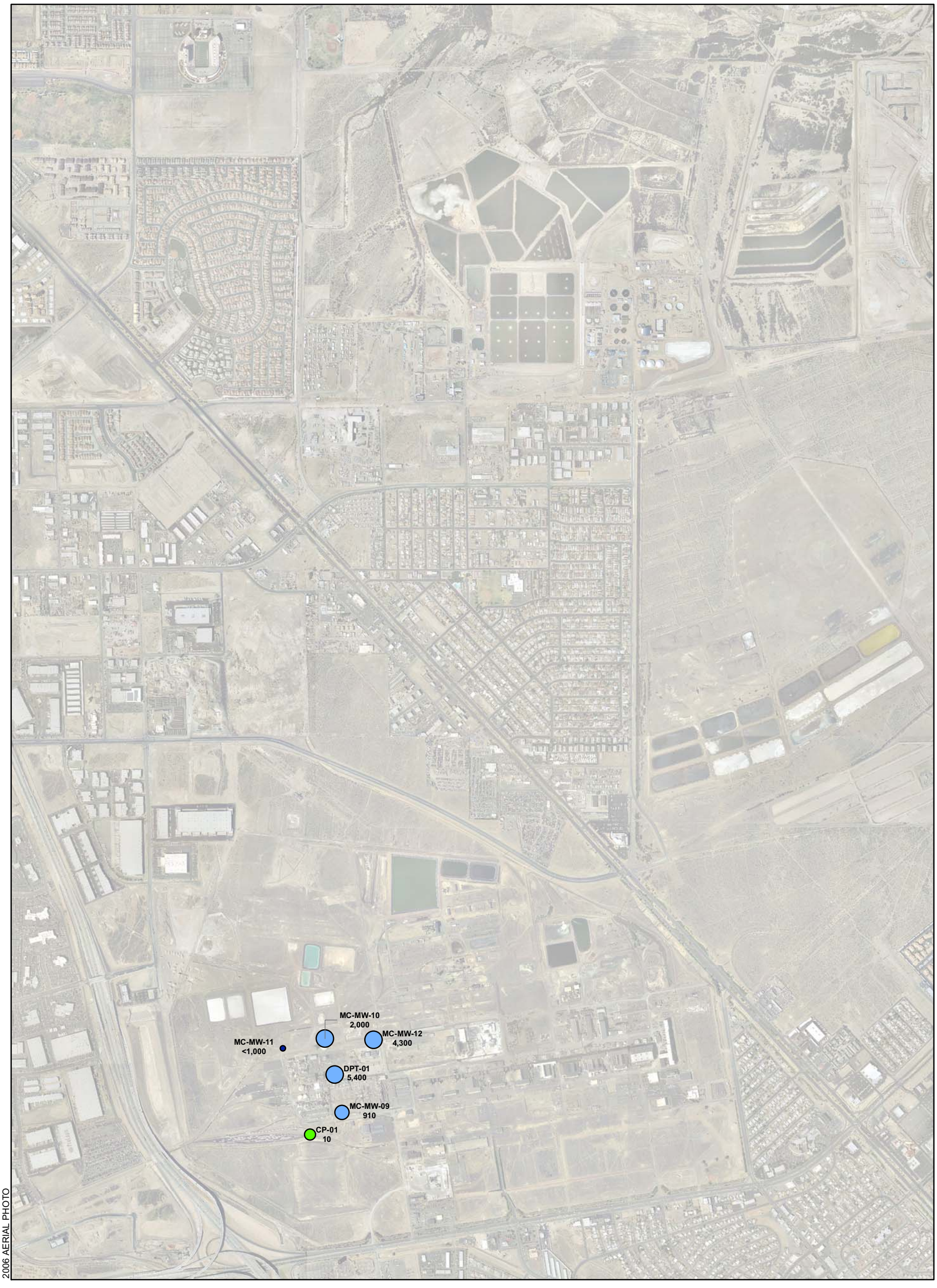
FIGURE 22

PREP BY JWM REV BY BRW RPT NO 754.28 | 12DCB-Alluvial.mxd



EXPLANATION

1,2-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 600 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 600 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

CP-01 10 — MONITOR WELL IDENTIFIER
CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,2-DICHLOROBENZENE
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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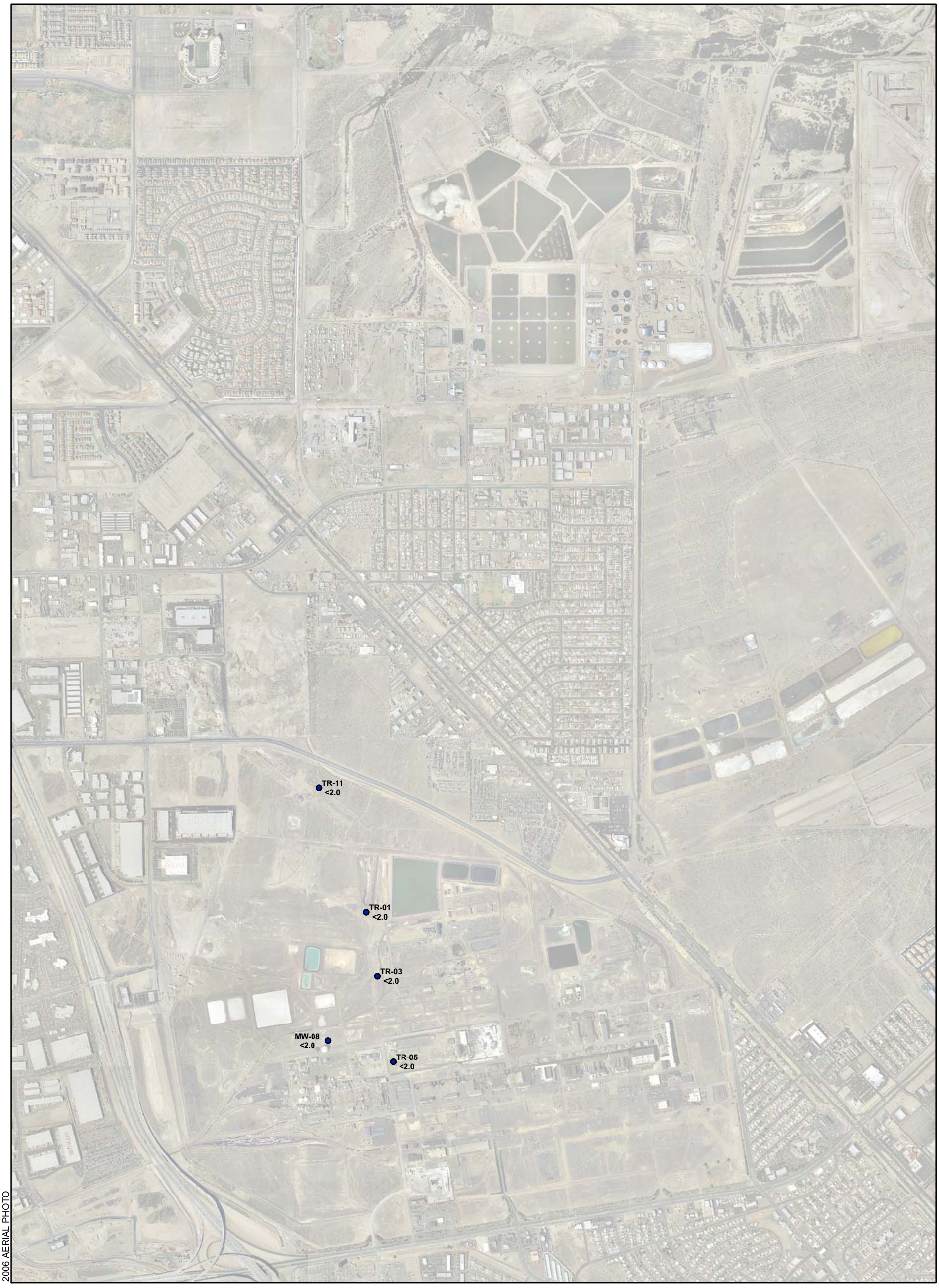
FIGURE 23

PREP BY JWM REV BY BRW RPT NO 754.28 12DCB-2ndWB.mxd



EXPLANATION

1,2-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 600 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 600 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

TR-05 <2.0 — MONITOR WELL IDENTIFIER
CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,2-DICHLOROBENZENE
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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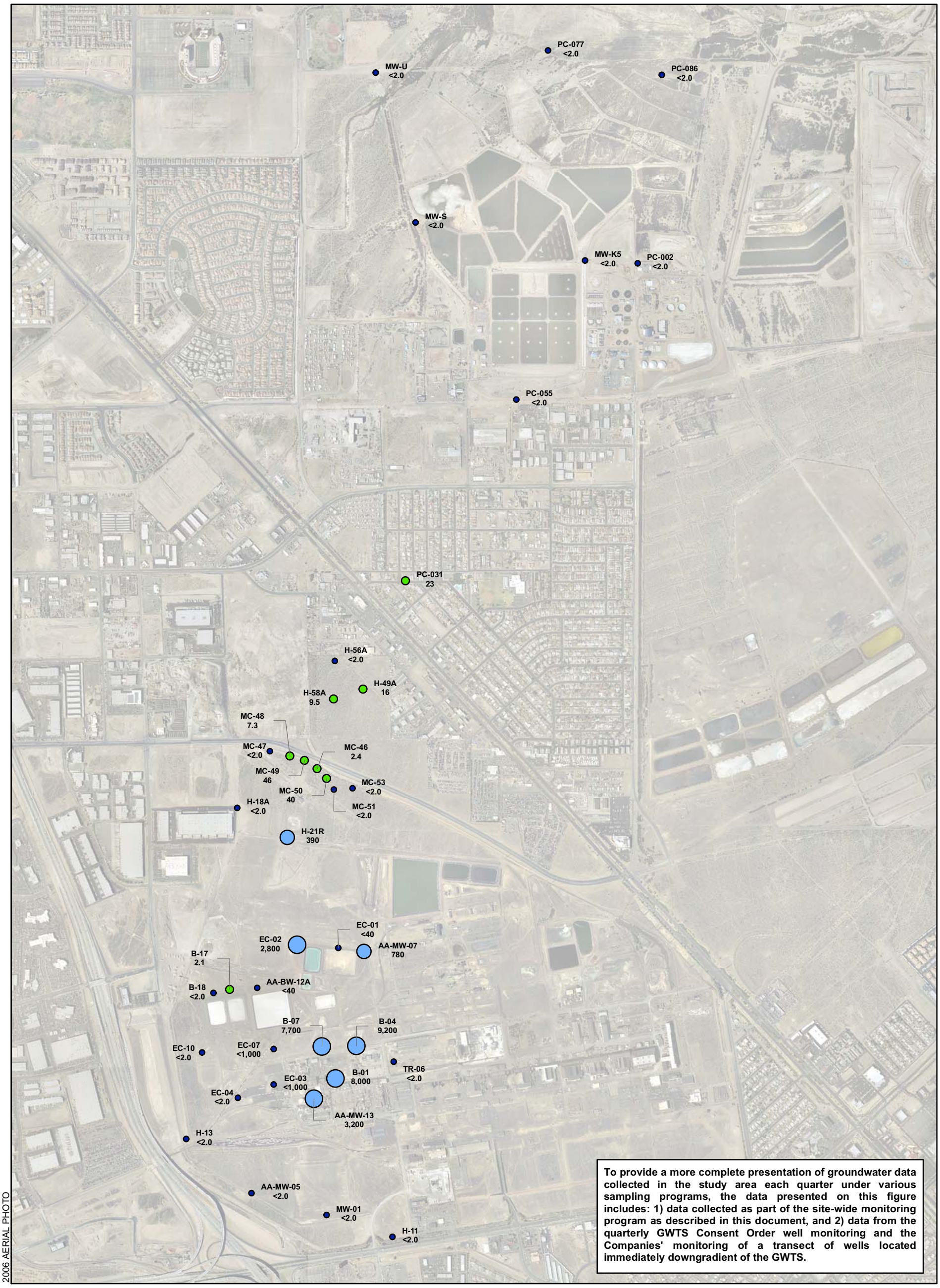
FIGURE 24

PREP BY JWM REV BY BRW RPT NO 754.28 | 12DCB-3rdWB.mxd



To provide a more complete presentation of groundwater data collected in the study area each quarter under various sampling programs, the data presented on this figure includes: 1) data collected as part of the site-wide monitoring program as described in this document, and 2) data from the quarterly GWTS Consent Order well monitoring and the Companies' monitoring of a transect of wells located immediately downgradient of the GWTS.

EXPLANATION

1,4-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 75 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 75 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

H-11 <2.0 — MONITOR WELL IDENTIFIER
CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,4-DICHLOROBENZENE
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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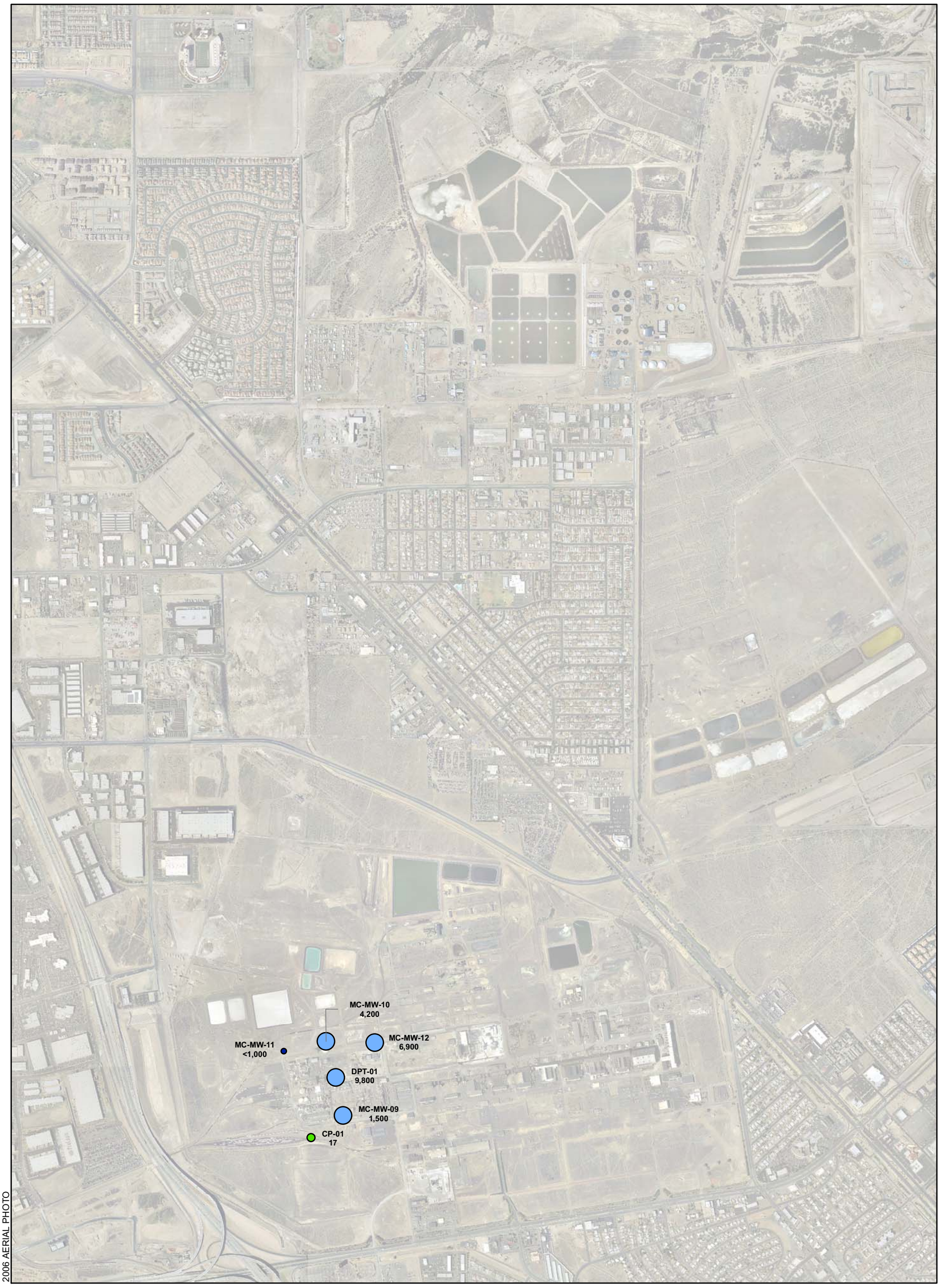
FIGURE 25

PREP BY JWM REV BY BRW RPT NO 754.28 | 14DCB-Alluvial.mxd



EXPLANATION

1,4-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 75 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 75 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

CP-01 17 — MONITOR WELL IDENTIFIER
CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

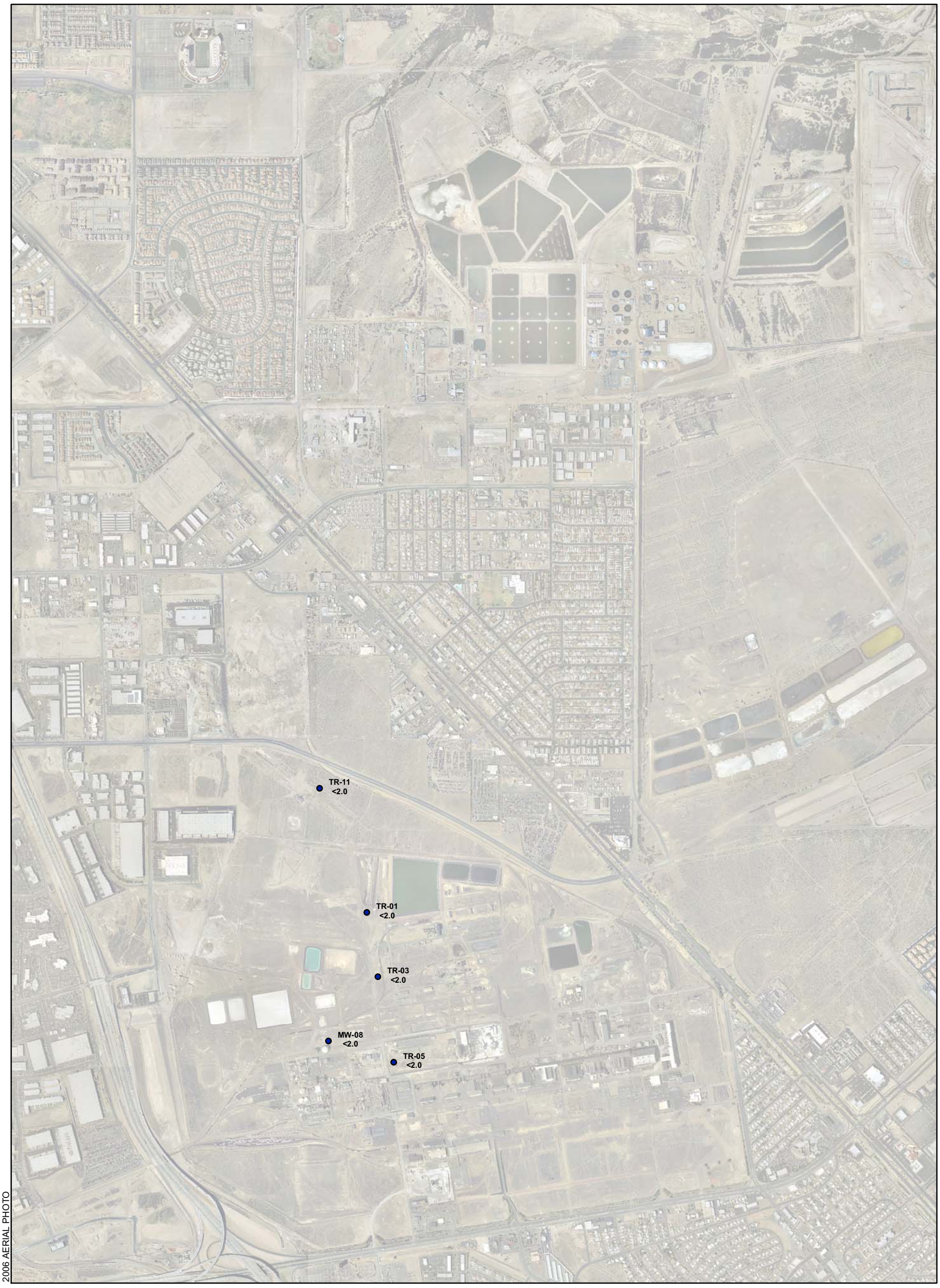
1,4-DICHLOROBENZENE
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 26

PREP BY JWM REV BY BRW RPT NO 754.28 | 14DCB-2ndWB.mxd



EXPLANATION

1,4-DICHLOROBENZENE CONCENTRATION
EPA METHOD: 8260B

- NON-DETECT
- < 75 ug/l (MAXIMUM CONTAMINANT LEVEL)
- 75 - 100 ug/l
- 100 - 1,000 ug/l
- 1,000 - 10,000 ug/l
- 10,000 - 100,000 ug/l
- > 100,000 ug/l

TR-05 <2.0 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

ug/l — MICROGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

1,4-DICHLOROBENZENE
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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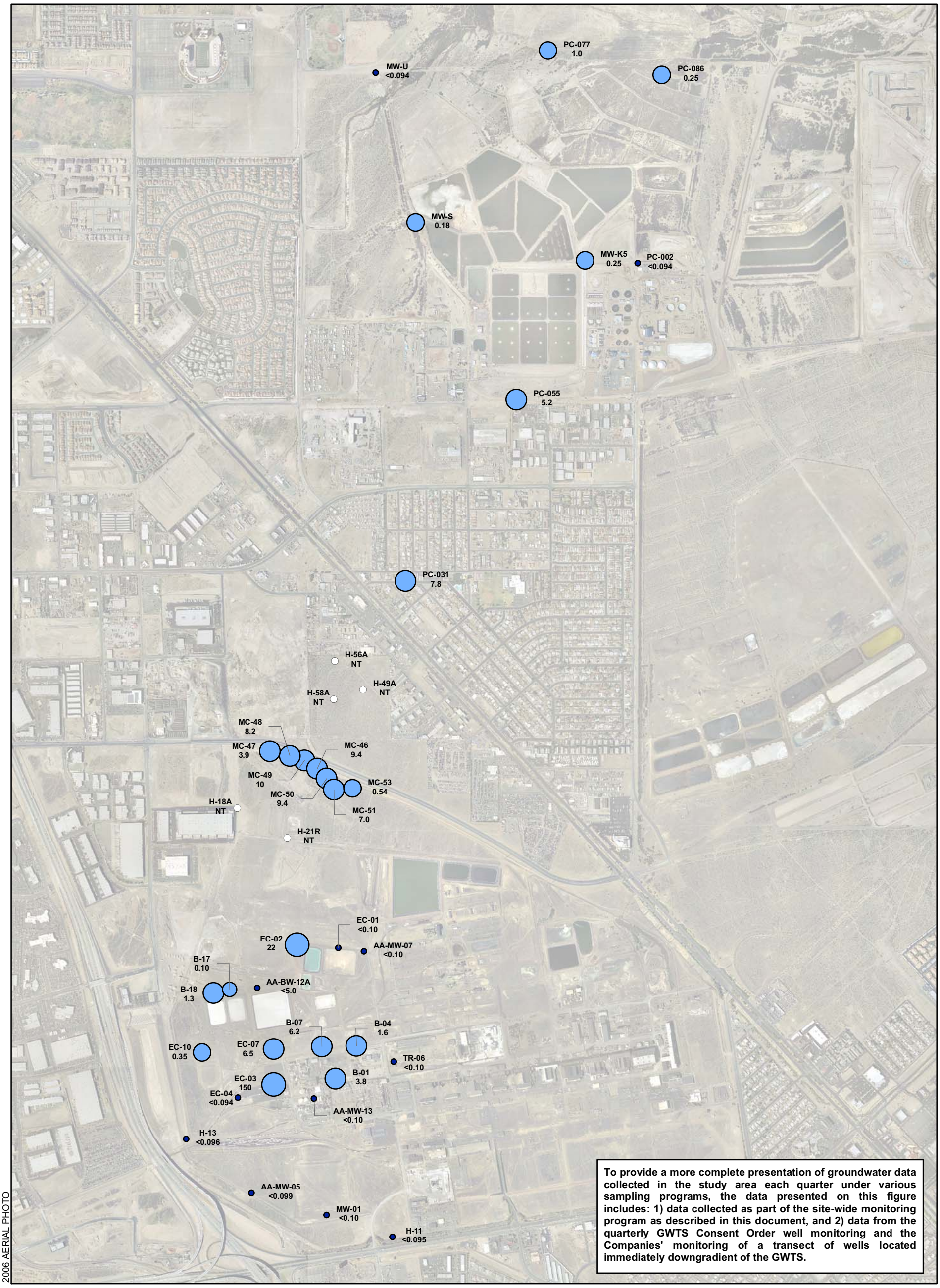
FIGURE 27

PREP BY JWM REV BY BRW RPT NO 754.28 | 14DCB-3rdWB.mxd



To provide a more complete presentation of groundwater data collected in the study area each quarter under various sampling programs, the data presented on this figure includes: 1) data collected as part of the site-wide monitoring program as described in this document, and 2) data from the quarterly GWTS Consent Order well monitoring and the Companies' monitoring of a transect of wells located immediately downgradient of the GWTS.

EXPLANATION

BETA-BHC CONCENTRATION
EPA METHOD: 8081A

- NOT TESTED
- NON-DETECT
- < 0.037 ug/L (PRG)
- 0.037 - 0.1 ug/l
- 0.1 - 1.0 ug/l
- 1.0 - 10 ug/l
- > 10 ug/l

B-17 / 0.10 — MONITOR WELL IDENTIFIER / CONCENTRATION IN MICROGRAMS PER LITER JULY 2007

NT — SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

ug/L — MICROGRAMS PER LITER

PRG — EPA REGION IX PRELIMINARY REMEDIATION GOAL FOR TAP WATER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

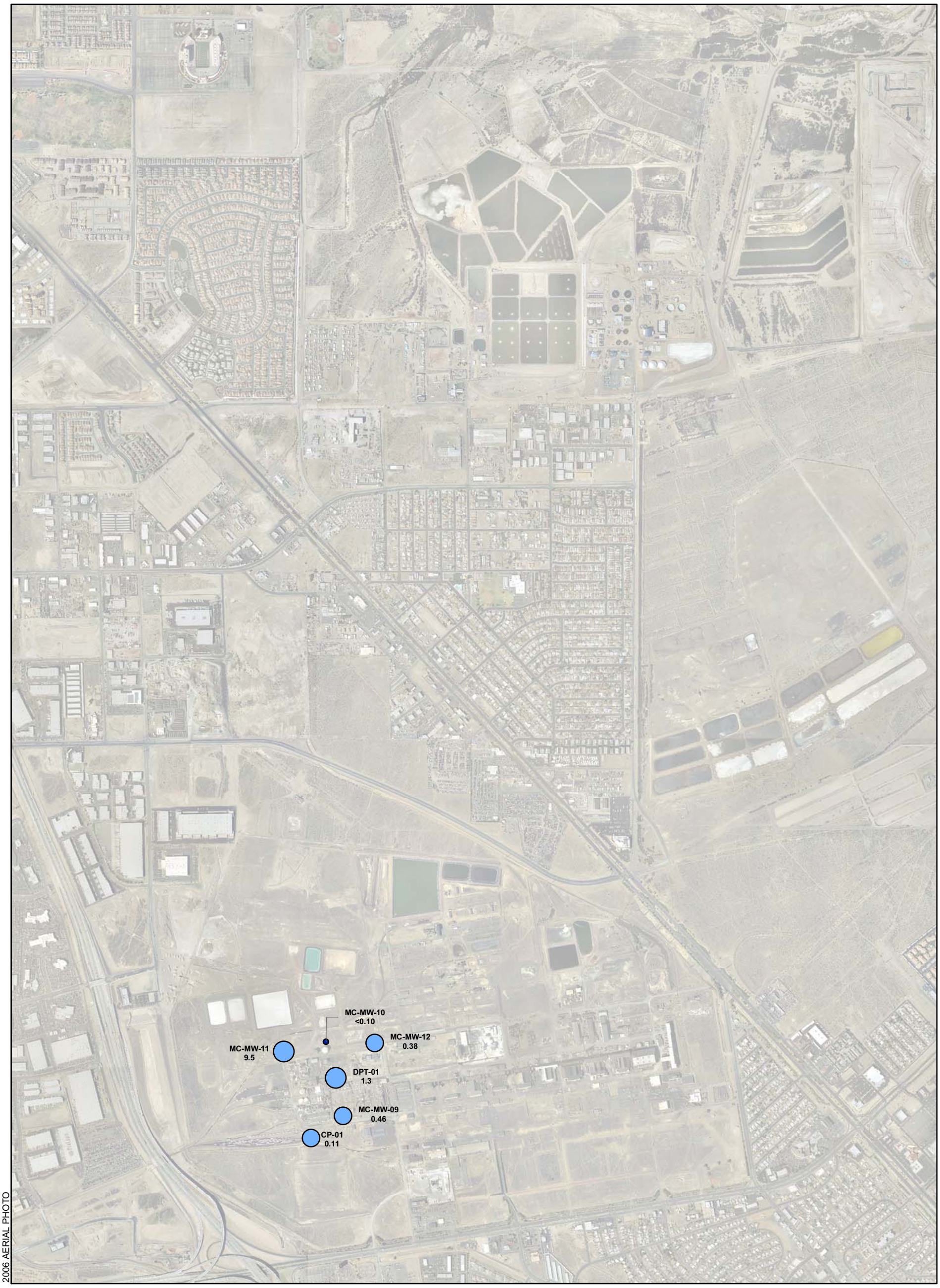
BETA-BHC
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 28

PREP BY JWM REV BY BRW RPT NO 754.28 BBHC-Alluvial.mxd



EXPLANATION

BETA-BHC CONCENTRATION
EPA METHOD: 8081A

- NON-DETECT
- < 0.037 ug/L (PRG)
- 0.037 - 0.1 ug/l
- 0.1 - 1.0 ug/l
- 1.0 - 10 ug/l
- > 10 ug/l

CP-01 MONITOR WELL IDENTIFIER
0.11 CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

ug/L MICROGRAMS PER LITER

PRG EPA REGION IX PRELIMINARY REMEDIATION GOAL FOR TAP WATER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

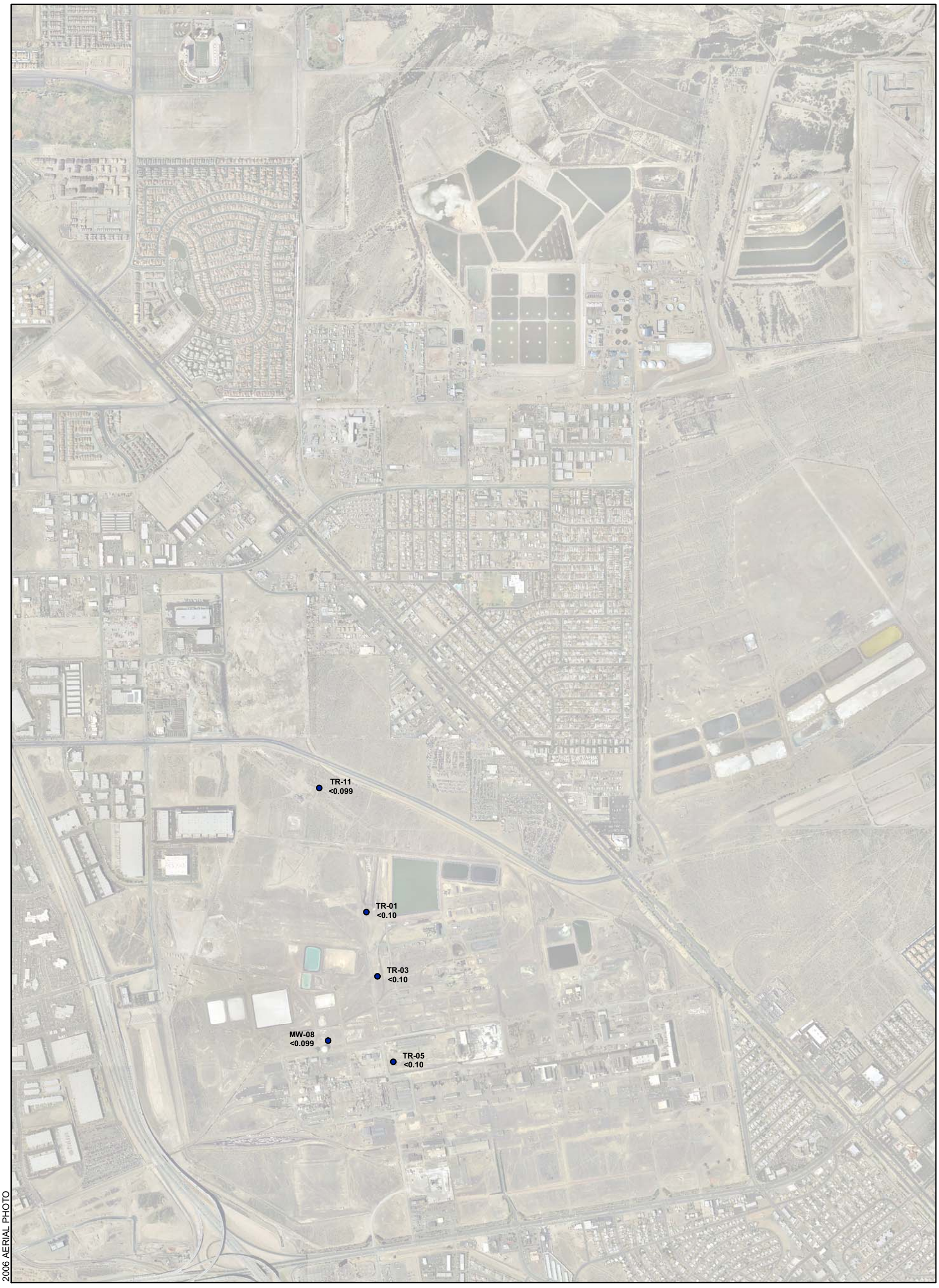
BETA-BHC
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 29

PREP BY JWM REV BY BRW RPT NO 754.28 BBHC-Second WBZ.mxd



EXPLANATION

BETA-BHC CONCENTRATION
EPA METHOD: 8081A

- NON-DETECT
- < 0.037 ug/L (PRG)
- 0.037 - 0.1 ug/l
- 0.1 - 1.0 ug/l
- 1.0 - 10 ug/l
- > 10 ug/l

TR-05 MONITOR WELL IDENTIFIER
<0.10 CONCENTRATION IN MICROGRAMS PER LITER
JULY 2007

ug/L MICROGRAMS PER LITER

PRG EPA REGION IX PRELIMINARY REMEDIATION GOAL FOR TAP WATER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

BETA-BHC
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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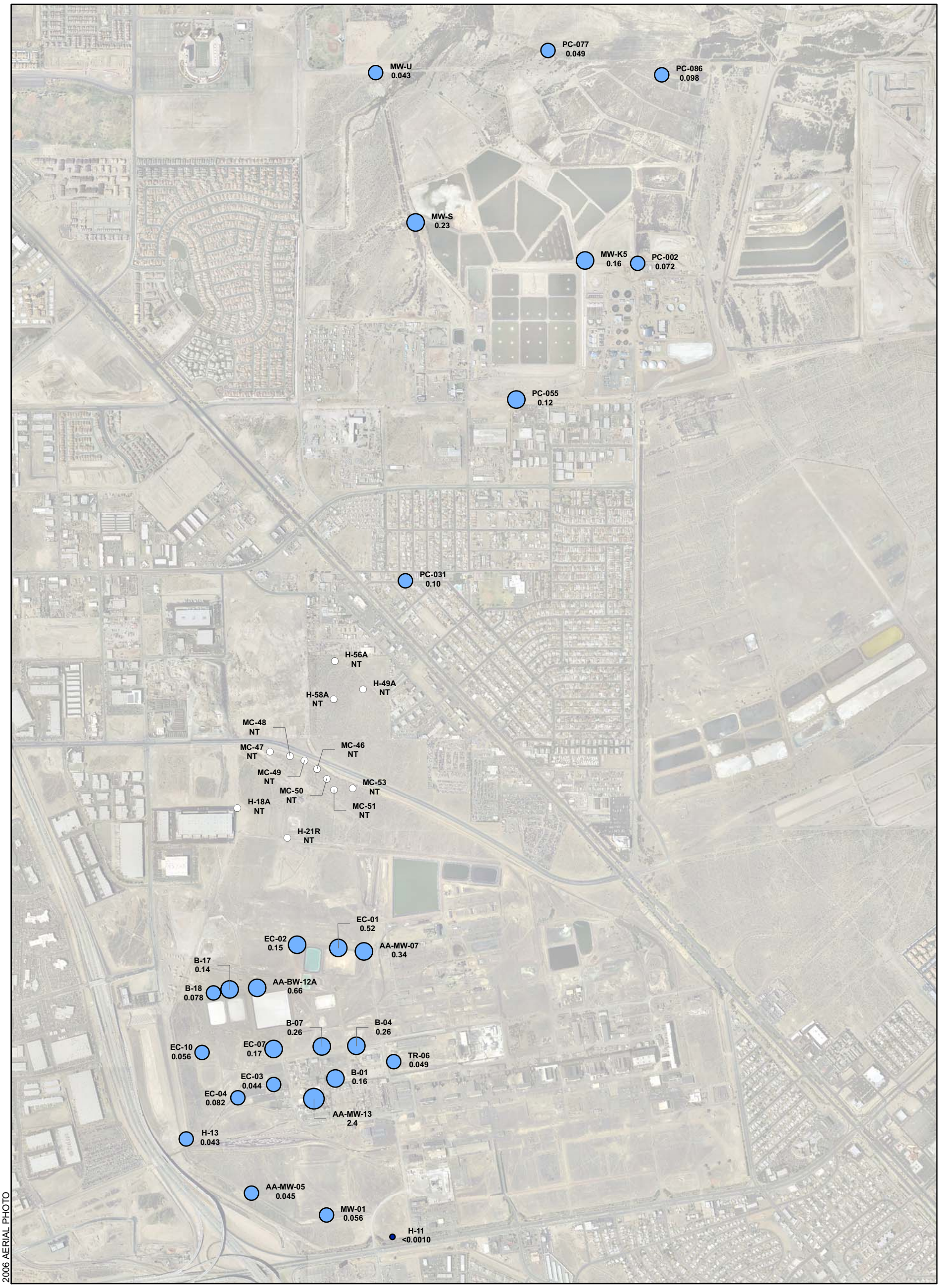
FIGURE 30

PREP BY JWM REV BY BRW RPT NO 754.28 BBHC-third WBZ.mxd



EXPLANATION

ARSENIC CONCENTRATION
EPA METHOD: 6020

- NOT TESTED
- NON-DETECT
- < 0.010 mg/l (MAXIMUM CONTAMINANT LEVEL)
- 0.010 - 0.1 mg/l
- 0.1 - 1.0 mg/l
- 1.0 - 10 mg/l
- > 10 mg/l

B-17 0.14 — MONITOR WELL IDENTIFIER; CONCENTRATION IN MILLIGRAMS PER LITER JULY 2007

< — LESS THAN; COMPOUND WAS NOT DETECTED AT OR ABOVE THE REPORTED DETECTION LIMIT

NT — SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L — MILLIGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

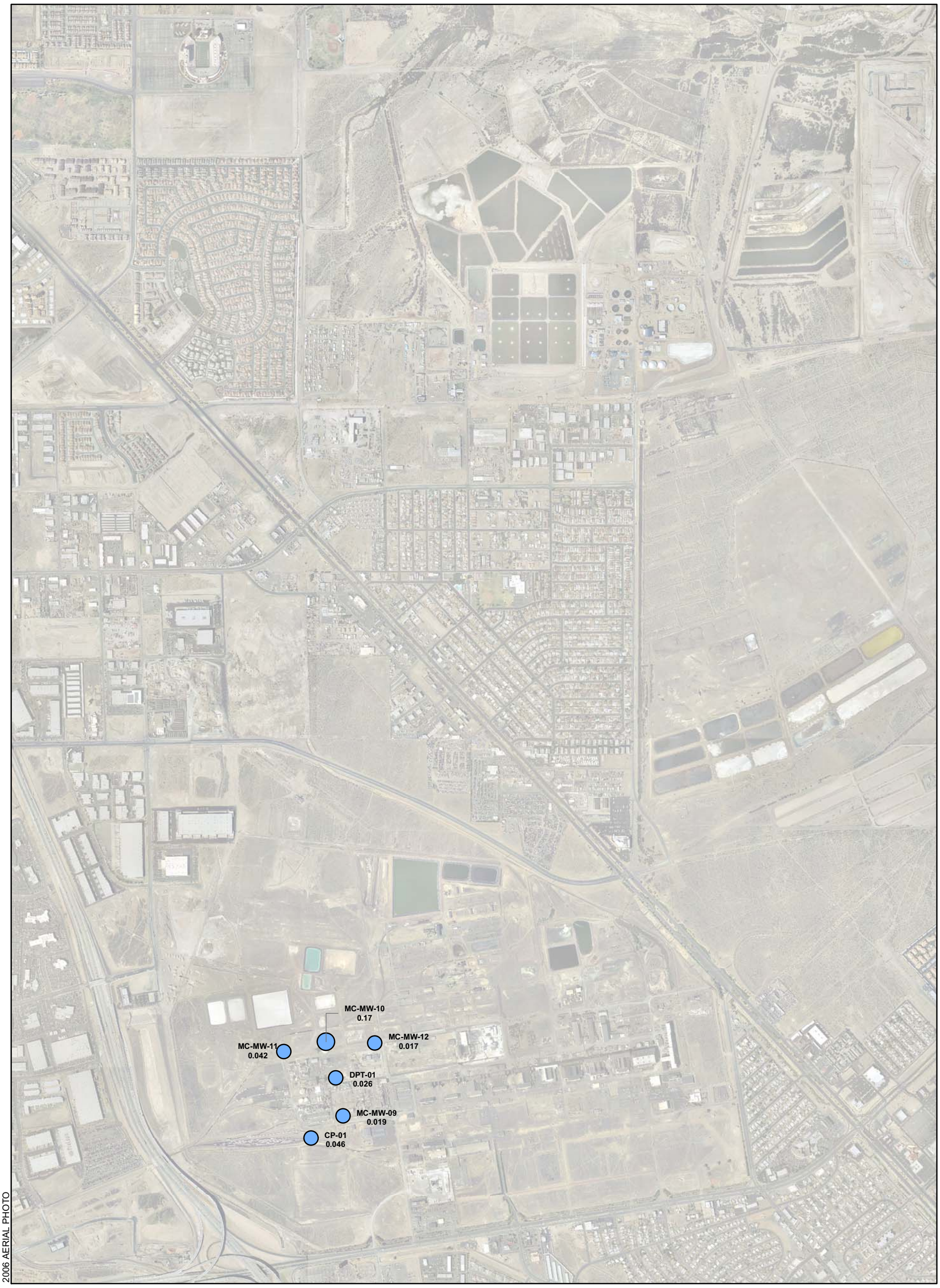
ARSENIC
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 31

PREP BY JWM REV BY BRW RPT NO 754.28 MCB-Alluvial.mxd



EXPLANATION

ARSENIC CONCENTRATION
EPA METHOD: 6020

- NON-DETECT
- < 0.010 mg/l (MAXIMUM CONTAMINANT LEVEL)
- 0.010 - 0.1 mg/l
- 0.1 - 1.0 mg/l
- 1.0 - 10 mg/l
- > 10 mg/l

CP-01 / **0.046** — MONITOR WELL IDENTIFIER / CONCENTRATION IN MILLIGRAMS PER LITER JULY 2007

NT — SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L — MILLIGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

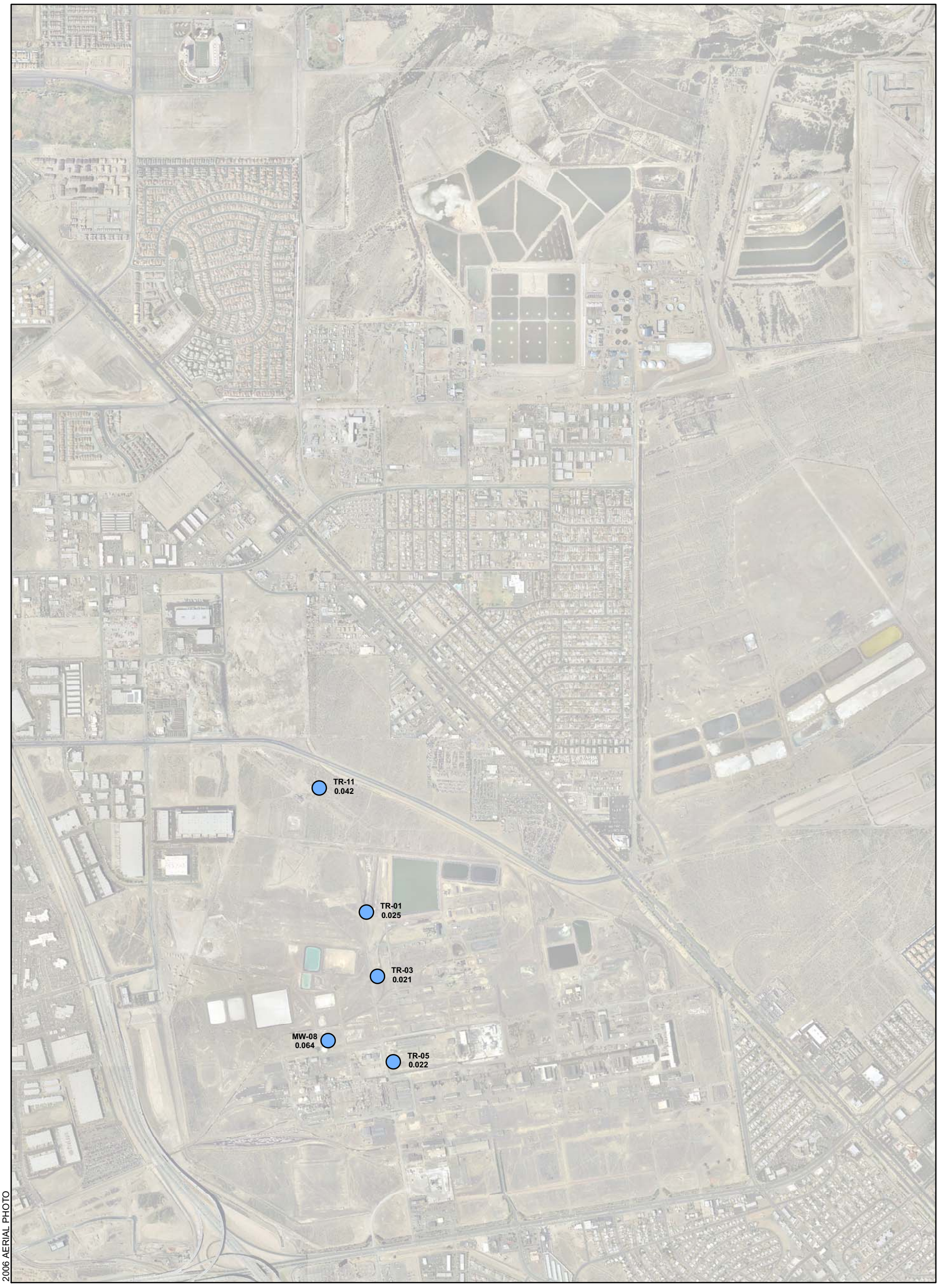
ARSENIC
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 32

PREP BY JWM REV BY BRW RPT NO 754.28 | AS-SecondWBZ.mxd



EXPLANATION

ARSENIC CONCENTRATION
EPA METHOD: 6020

- NON-DETECT
- < 0.010 mg/l (MAXIMUM CONTAMINANT LEVEL)
- 0.010 - 0.1 mg/l
- 0.1 - 1.0 mg/l
- 1.0 - 10 mg/l
- > 10 mg/l

TR-05 MONITOR WELL IDENTIFIER
0.022 CONCENTRATION IN MILLIGRAMS PER LITER
JULY 2007

NT SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L MILLIGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

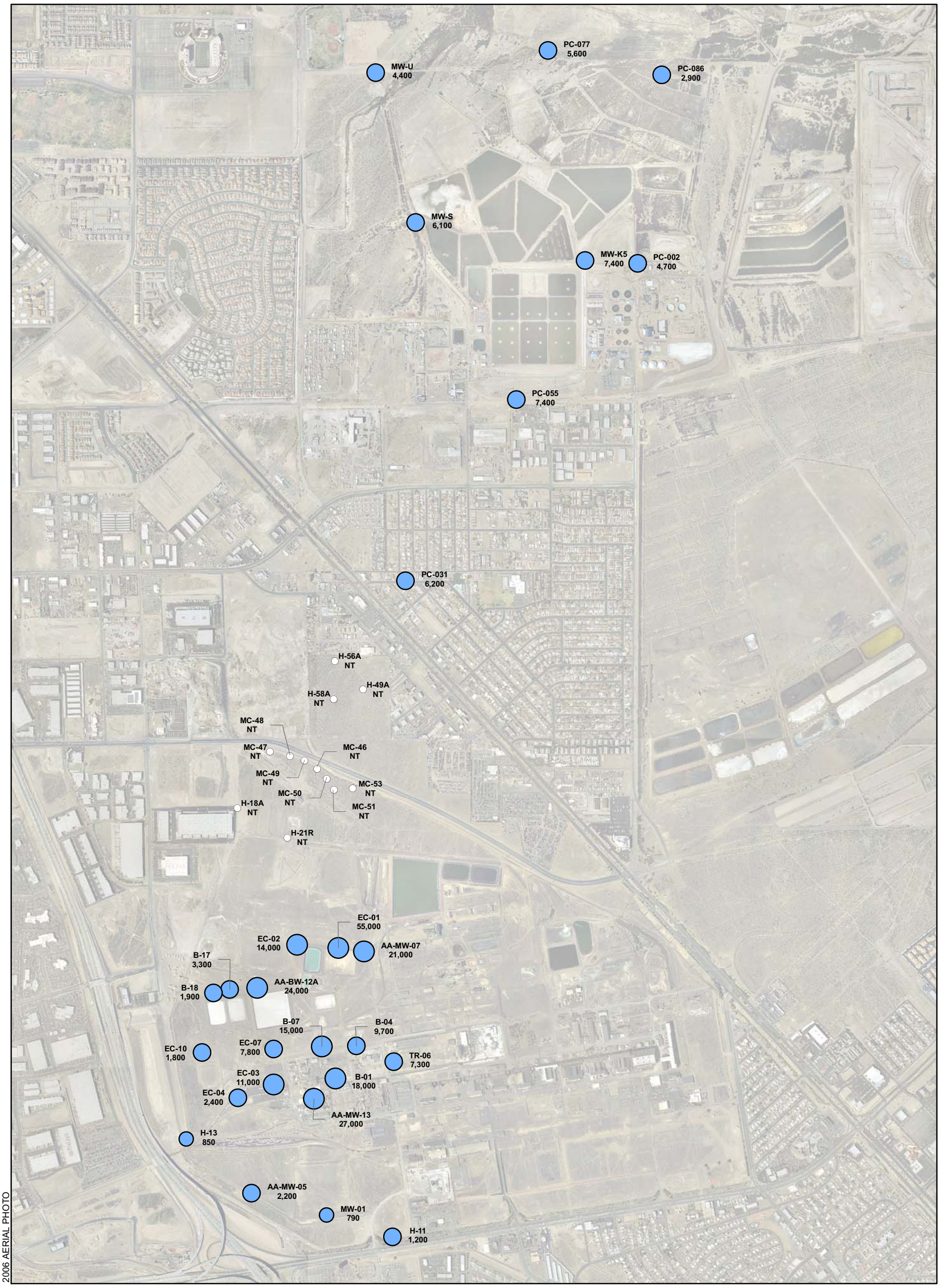
ARSENIC
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/09/2007

FIGURE 33

PREP BY JWM REV BY BRW RPT NO 754.28 AS-THIRDWBZ.mxd



EXPLANATION

TOTAL DISSOLVED SOLIDS CONCENTRATION
EPA METHOD: 160.1

- NOT TESTED
- < 500 mg/l (SECONDARY MAXIMUM CONTAMINANT LEVEL)
- 500 - 1,000 mg/l
- 1,000 - 10,000 mg/l
- 10,000 - 100,000 mg/l
- > 100,000 mg/l

B-17 MONITOR WELL IDENTIFIER
3,300 CONCENTRATION IN MILLIGRAMS PER LITER JULY 2007

NT SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L MILLIGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

TOTAL DISSOLVED SOLIDS
ALLUVIAL AQUIFER
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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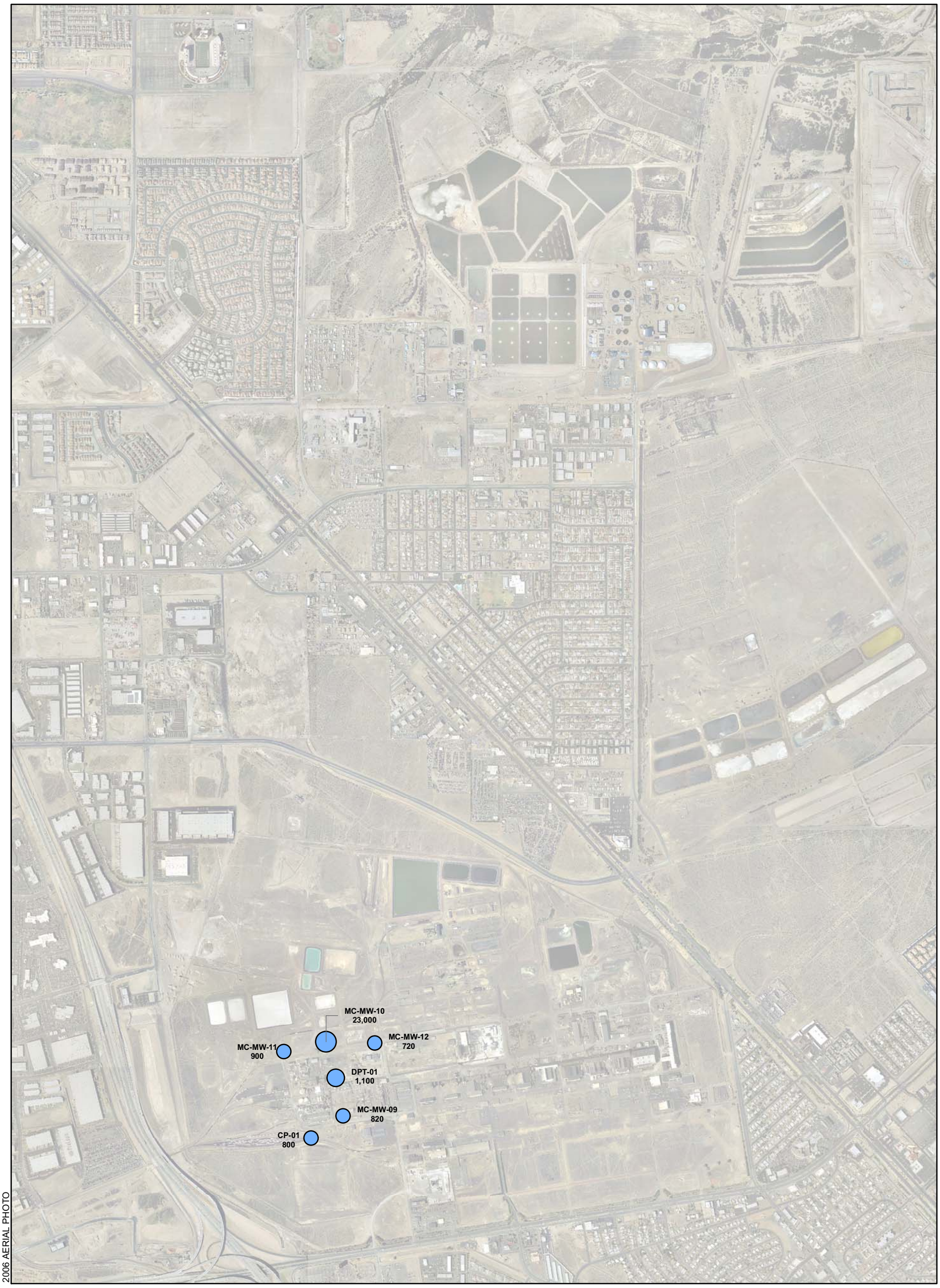
FIGURE 34

PREP BY JWM REV BY BRW RPT NO 754.28 TDS-Alluvial.mxd



EXPLANATION

TOTAL DISSOLVED SOLIDS CONCENTRATION
EPA METHOD: 160.1

- < 500 mg/l (SECONDARY MAXIMUM CONTAMINANT LEVEL)
- 500 - 1,000 mg/l
- 1,000 - 10,000 mg/l
- 10,000 - 100,000 mg/l
- > 100,000 mg/l

CP-01 / 800 — MONITOR WELL IDENTIFIER / CONCENTRATION IN MILLIGRAMS PER LITER JULY 2007

NT — SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L — MILLIGRAMS PER LITER

N

0 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES

HENDERSON, NEVADA

TOTAL DISSOLVED SOLIDS
FINE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

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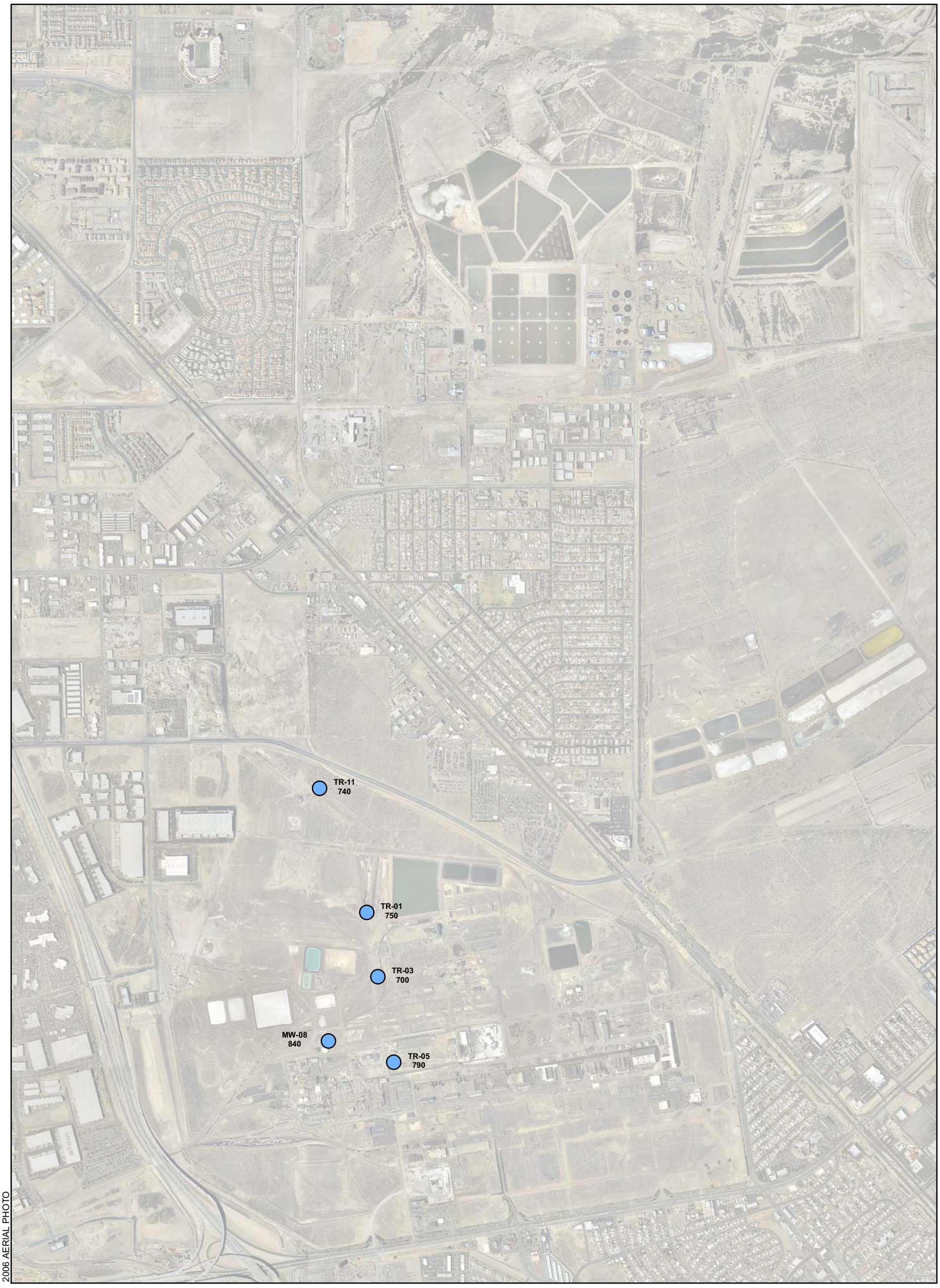
FIGURE 35

PREP BY JWM REV BY BRW RPT NO 754.28 TDS-Second WBZ.mxd



EXPLANATION

TOTAL DISSOLVED SOLIDS CONCENTRATION
EPA METHOD: 160.1

- < 500 mg/l (SECONDARY MAXIMUM CONTAMINANT LEVEL)
- 500 - 1,000 mg/l
- 1,000 - 10,000 mg/l
- 10,000 - 100,000 mg/l
- > 100,000 mg/l

TR-05 790 — MONITOR WELL IDENTIFIER
CONCENTRATION IN MILLIGRAMS PER LITER
JULY 2007

NT — SAMPLES COLLECTED FROM WELL NOT TESTED FOR THIS PARAMETER

mg/L — MILLIGRAMS PER LITER

N

0 750 1,500
Feet

SITE-WIDE GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

TOTAL DISSOLVED SOLIDS
COARSE-GRAINED
UPPER MUDDY CREEK FORMATION
THIRD QUARTER 2007

HARGIS + ASSOCIATES, INC.
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FIGURE 36

PREP BY JWM REV BY BRW RPT NO 754.28 TDS-THIRD WBZ.mxd

Well H-13

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.043	mg/L
Benzene	<2.0	ug/L
bBHC	<0.096	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	850	mg/L

Well AA-MW-05

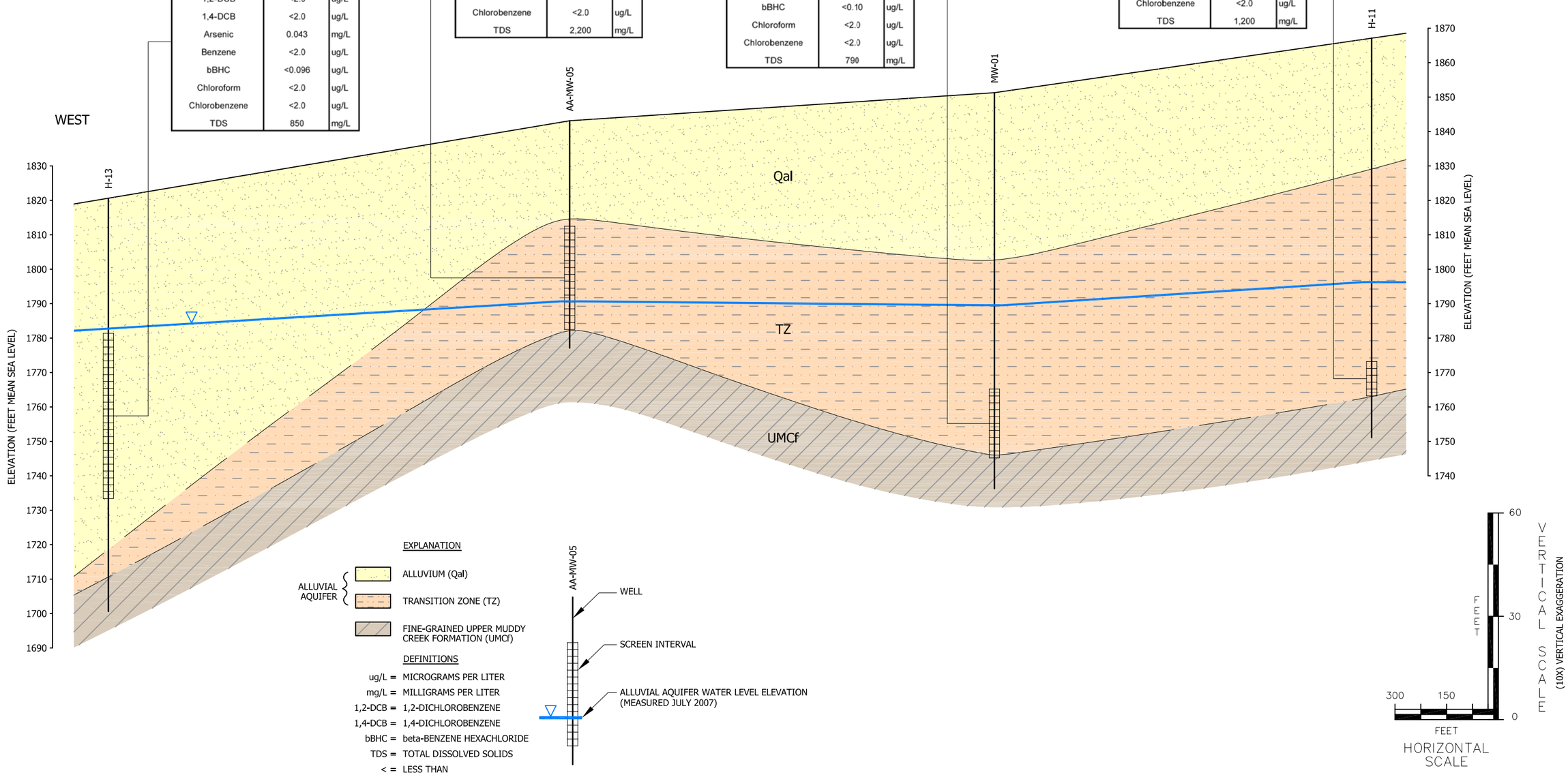
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.045	mg/L
Benzene	<2.0	ug/L
bBHC	<0.099	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	2,200	mg/L

Well MW-01

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.056	mg/L
Benzene	<2.0	ug/L
bBHC	<0.10	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	790	mg/L

Well H-11

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	<0.0010	mg/L
Benzene	<2.0	ug/L
bBHC	<0.095	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	1,200	mg/L



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Hydrogeology/Engineering

10/07	RPT NO. 754.28	310-0796	A

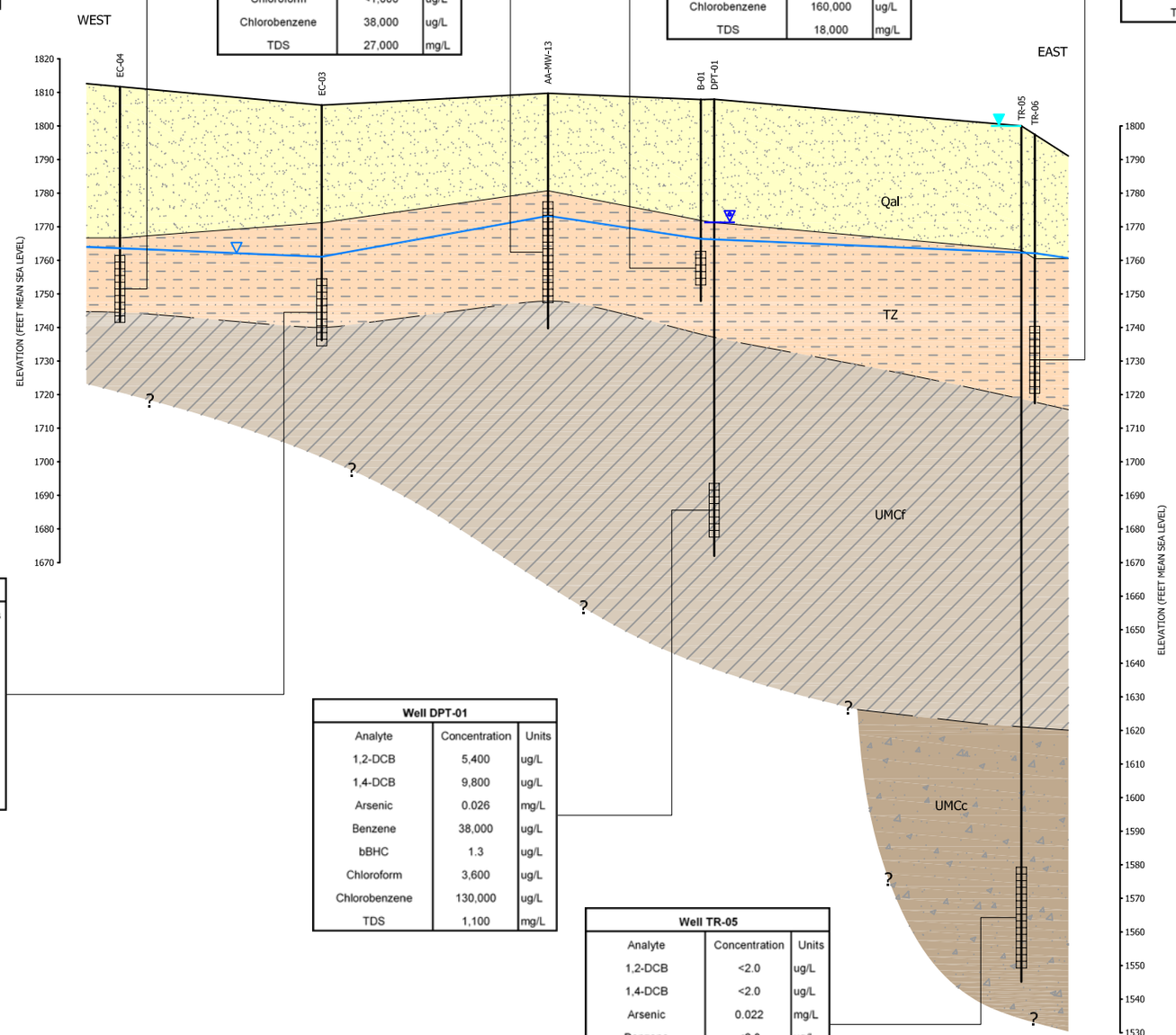
FIGURE 37. HYDROGEOLOGIC CROSS-SECTION - TRANSECT No. 1

Well EC-04		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.082	mg/L
Benzene	<2.0	ug/L
bBHC	<0.094	ug/L
Chloroform	23	ug/L
Chlorobenzene	<2.0	ug/L
TDS	2,400	mg/L

Well AA-MW-13		
Analyte	Concentration	Units
1,2-DCB	2,400	ug/L
1,4-DCB	3,200	ug/L
Arsenic	2.4	mg/L
Benzene	130,000	ug/L
bBHC	<0.10	ug/L
Chloroform	<1,000	ug/L
Chlorobenzene	38,000	ug/L
TDS	27,000	mg/L

Well B-01		
Analyte	Concentration	Units
1,2-DCB	4,900	ug/L
1,4-DCB	8,000	ug/L
Arsenic	0.16	mg/L
Benzene	91,000	ug/L
bBHC	3.8	ug/L
Chloroform	37,000	ug/L
Chlorobenzene	160,000	ug/L
TDS	18,000	mg/L

Well TR-06		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.049	mg/L
Benzene	6.6	ug/L
bBHC	<0.10	ug/L
Chloroform	1,900	ug/L
Chlorobenzene	8.4	ug/L
TDS	7,300	mg/L



Well EC-03		
Analyte	Concentration	Units
1,2-DCB	<1,000	ug/L
1,4-DCB	<1,000	ug/L
Arsenic	0.044	mg/L
Benzene	670,000	ug/L
bBHC	150	ug/L
Chloroform	5,600	ug/L
Chlorobenzene	34,000	ug/L
TDS	11,000	mg/L

Well DPT-01		
Analyte	Concentration	Units
1,2-DCB	5,400	ug/L
1,4-DCB	9,800	ug/L
Arsenic	0.026	mg/L
Benzene	38,000	ug/L
bBHC	1.3	ug/L
Chloroform	3,600	ug/L
Chlorobenzene	130,000	ug/L
TDS	1,100	mg/L

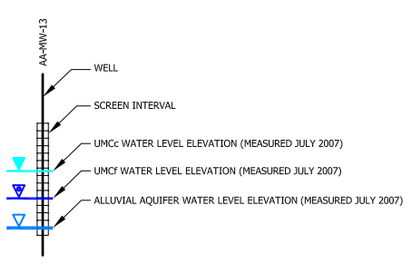
Well TR-05		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.022	mg/L
Benzene	<2.0	ug/L
bBHC	<0.10	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	790	mg/L

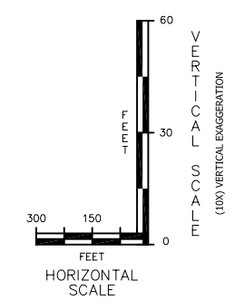
EXPLANATION

ALLUVIAL AQUIFER
- ALLUVIUM (Qal)
- TRANSITION ZONE (TZ)
- FINE-GRAINED UPPER MUDDY CREEK FORMATION (UMCf)
- COARSE-GRAINED UPPER MUDDY CREEK FORMATION (UMCc)

DEFINITIONS

ug/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER
1,2-DCB = 1,2-DICHLOROBENZENE
1,4-DCB = 1,4-DICHLOROBENZENE
bBHC = beta-BENZENE HEXACHLORIDE
TDS = TOTAL DISSOLVED SOLIDS
< = LESS THAN





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10/07	RPT NO. 754.28	310-0797	A

FIGURE 38. HYDROGEOLOGIC CROSS-SECTION - TRANSECT No. 2

Well GW-EC-10

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.056	mg/L
Benzene	<2.0	ug/L
bBHC	0.35	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	1,800	mg/L

Well GW-EC-07

Analyte	Concentration	Units
1,2-DCB	<1,000	ug/L
1,4-DCB	<1,000	ug/L
Arsenic	0.17	mg/L
Benzene	640,000	ug/L
bBHC	6.5	ug/L
Chloroform	1,600	ug/L
Chlorobenzene	74,000	ug/L
TDS	7,800	mg/L

Well B-07

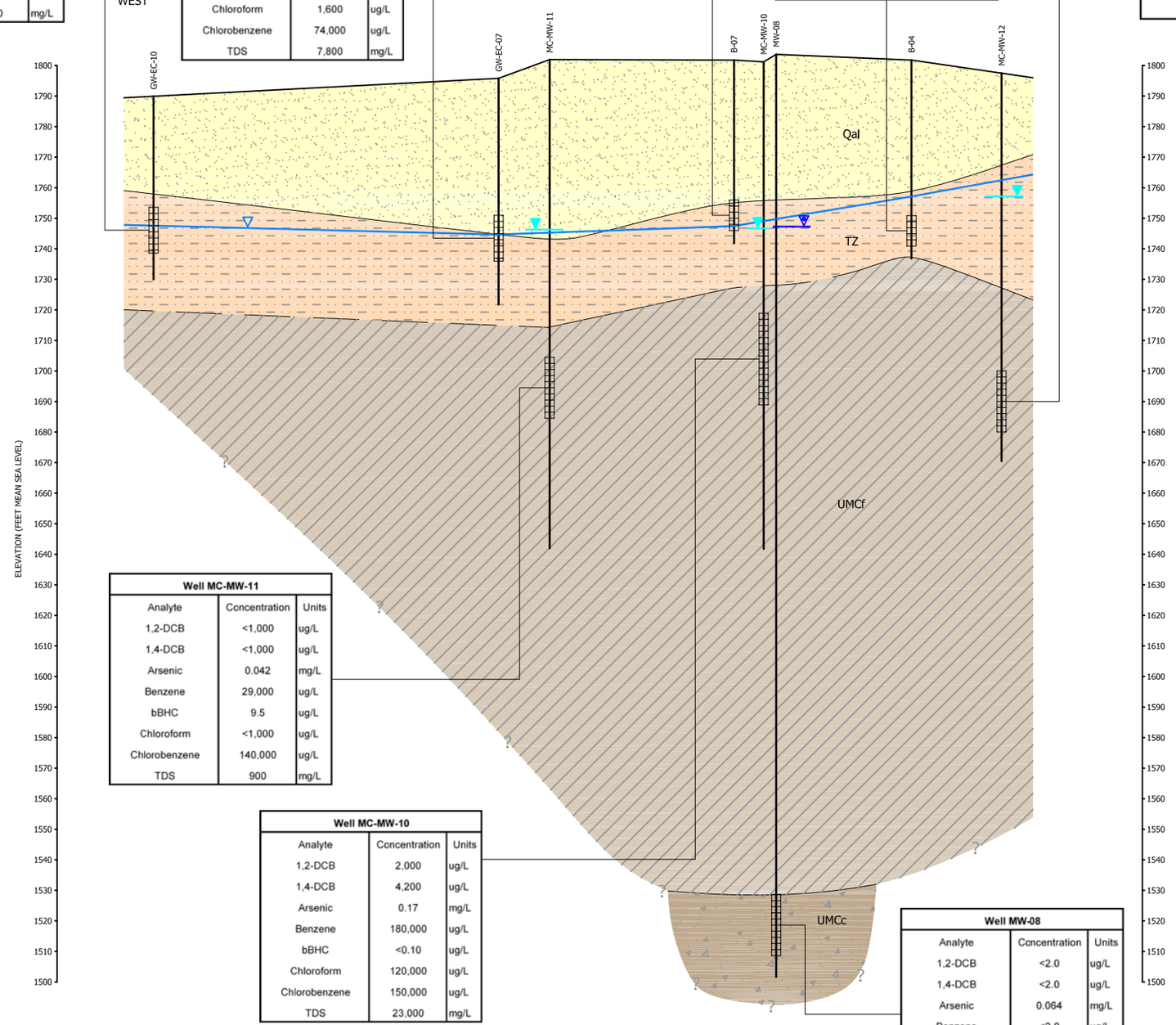
Analyte	Concentration	Units
1,2-DCB	4,800	ug/L
1,4-DCB	7,700	ug/L
Arsenic	0.26	mg/L
Benzene	120,000	ug/L
bBHC	6.2	ug/L
Chloroform	60,000	ug/L
Chlorobenzene	130,000	ug/L
TDS	15,000	mg/L

Well B-04

Analyte	Concentration	Units
1,2-DCB	5,000	ug/L
1,4-DCB	9,200	ug/L
Arsenic	0.26	mg/L
Benzene	120,000	ug/L
bBHC	1.6	ug/L
Chloroform	40,000	ug/L
Chlorobenzene	80,000	ug/L
TDS	9,700	mg/L

Well MC-MW-12

Analyte	Concentration	Units
1,2-DCB	4,300	ug/L
1,4-DCB	6,900	ug/L
Arsenic	0.017	mg/L
Benzene	19,000	ug/L
bBHC	0.38	ug/L
Chloroform	6,600	ug/L
Chlorobenzene	140,000	ug/L
TDS	720	mg/L



Well MC-MW-11

Analyte	Concentration	Units
1,2-DCB	<1,000	ug/L
1,4-DCB	<1,000	ug/L
Arsenic	0.042	mg/L
Benzene	29,000	ug/L
bBHC	9.5	ug/L
Chloroform	<1,000	ug/L
Chlorobenzene	140,000	ug/L
TDS	900	mg/L

Well MC-MW-10

Analyte	Concentration	Units
1,2-DCB	2,000	ug/L
1,4-DCB	4,200	ug/L
Arsenic	0.17	mg/L
Benzene	180,000	ug/L
bBHC	<0.10	ug/L
Chloroform	120,000	ug/L
Chlorobenzene	150,000	ug/L
TDS	23,000	mg/L

Well MW-08

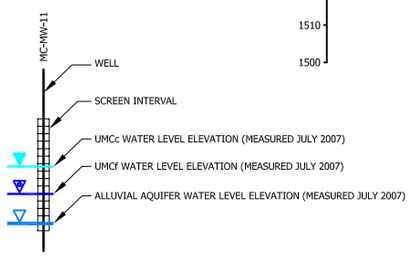
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.064	mg/L
Benzene	<2.0	ug/L
bBHC	<0.099	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	840	mg/L

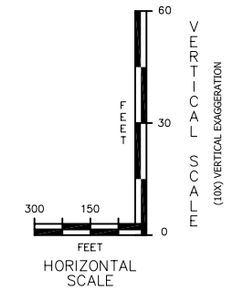
EXPLANATION

ALLUVIAL AQUIFER
- ALLUVIUM (Qal)
- TRANSITION ZONE (TZ)
- FINE-GRAINED UPPER MUDDY CREEK FORMATION (UMCf)
- COARSE-GRAINED UPPER MUDDY CREEK FORMATION (UMCc)

DEFINITIONS

ug/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER
1,2-DCB = 1,2-DICHLOROBENZENE
1,4-DCB = 1,4-DICHLOROBENZENE
bBHC = beta-BENZENE HEXACHLORIDE
TDS = TOTAL DISSOLVED SOLIDS
< = LESS THAN





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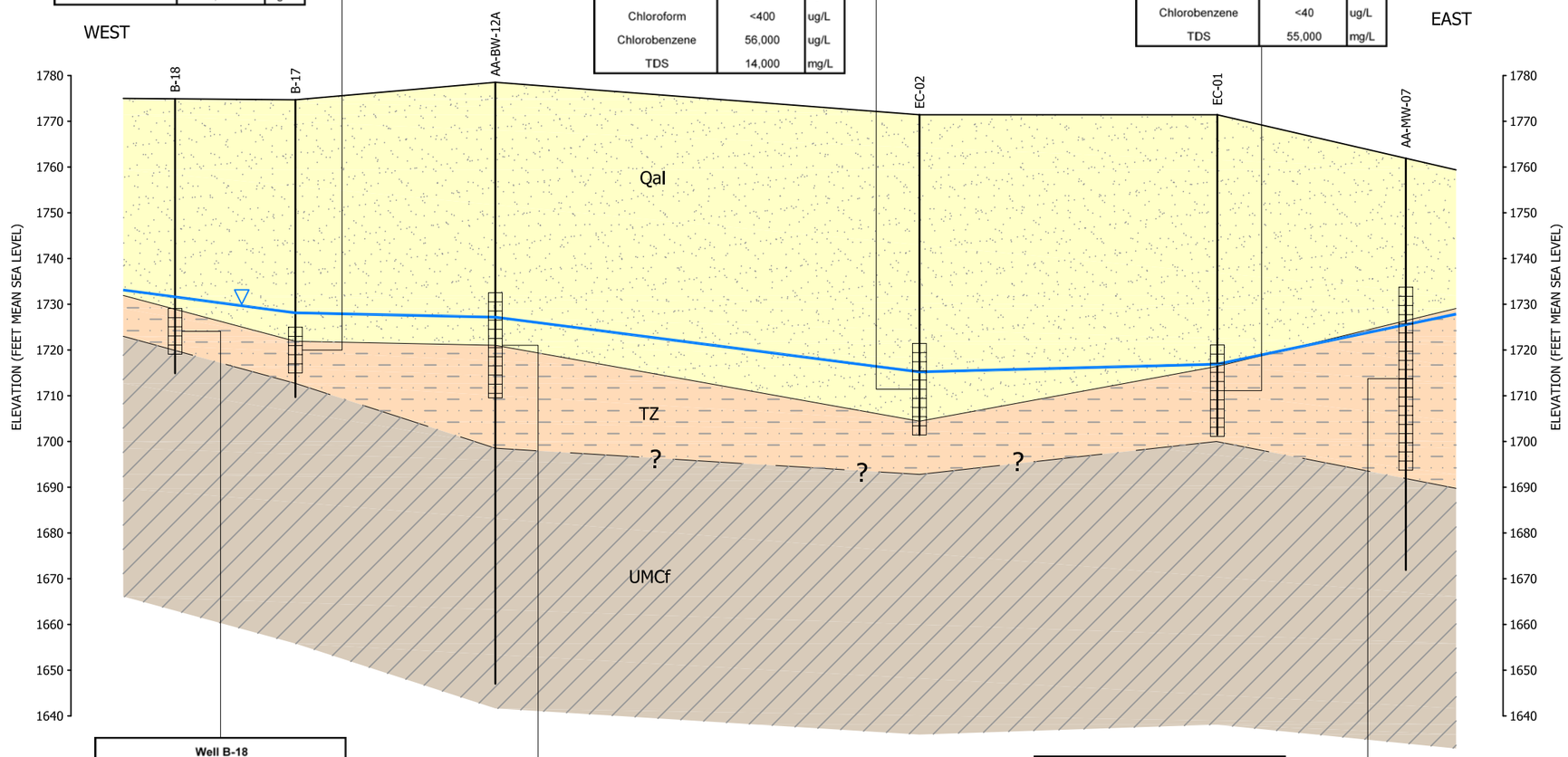
10/07	RPT NO. 754.28	310-0800	A

FIGURE 39. HYDROGEOLOGIC CROSS-SECTION - TRANSECT No. 3

Well B-17		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	2.1	ug/L
Arsenic	0.14	mg/L
Benzene	<2.0	ug/L
bBHC	0.10	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	3.8	ug/L
TDS	3,300	mg/L

Well EC-02		
Analyte	Concentration	Units
1,2-DCB	1,600	ug/L
1,4-DCB	2,800	ug/L
Arsenic	0.15	mg/L
Benzene	54,000	ug/L
bBHC	22	ug/L
Chloroform	<400	ug/L
Chlorobenzene	56,000	ug/L
TDS	14,000	mg/L

Well EC-01		
Analyte	Concentration	Units
1,2-DCB	<40	ug/L
1,4-DCB	<40	ug/L
Arsenic	0.52	mg/L
Benzene	<40	ug/L
bBHC	<0.10	ug/L
Chloroform	10,000	ug/L
Chlorobenzene	<40	ug/L
TDS	55,000	mg/L



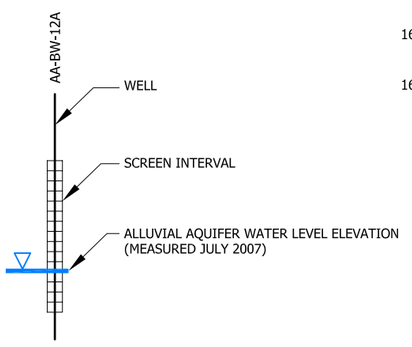
EXPLANATION

ALLUVIAL AQUIFER
- ALLUVIUM (Qal)
- TRANSITION ZONE (TZ)

FINE-GRAINED UPPER MUDDY CREEK FORMATION (UMCf)

DEFINITIONS

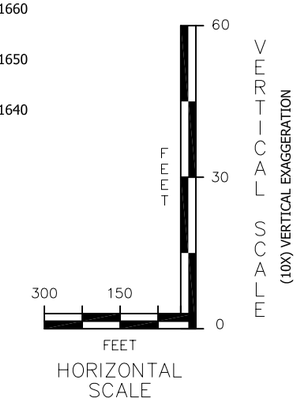
ug/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER
1,2-DCB = 1,2-DICHLOROBENZENE
1,4-DCB = 1,4-DICHLOROBENZENE
bBHC = beta-BENZENE HEXACHLORIDE
TDS = TOTAL DISSOLVED SOLIDS
< = LESS THAN



Well B-18		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.078	mg/L
Benzene	<2.0	ug/L
bBHC	1.3	ug/L
Chloroform	2.9	ug/L
Chlorobenzene	<2.0	ug/L
TDS	1,900	mg/L

Well AA-BW-12A		
Analyte	Concentration	Units
1,2-DCB	<40	ug/L
1,4-DCB	<40	ug/L
Arsenic	0.66	mg/L
Benzene	13,000	ug/L
bBHC	<5.0	ug/L
Chloroform	48	ug/L
Chlorobenzene	1,400	ug/L
TDS	24,000	mg/L

Well AA-MW-07		
Analyte	Concentration	Units
1,2-DCB	610	ug/L
1,4-DCB	780	ug/L
Arsenic	0.34	mg/L
Benzene	5,200	ug/L
bBHC	<0.10	ug/L
Chloroform	10,000	ug/L
Chlorobenzene	4,400	ug/L
TDS	21,000	mg/L



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10/07	RPT NO. 754.28	310-0801	A

FIGURE 40. HYDROGEOLOGIC CROSS-SECTION – TRANSECT No. 4

Well MW-S

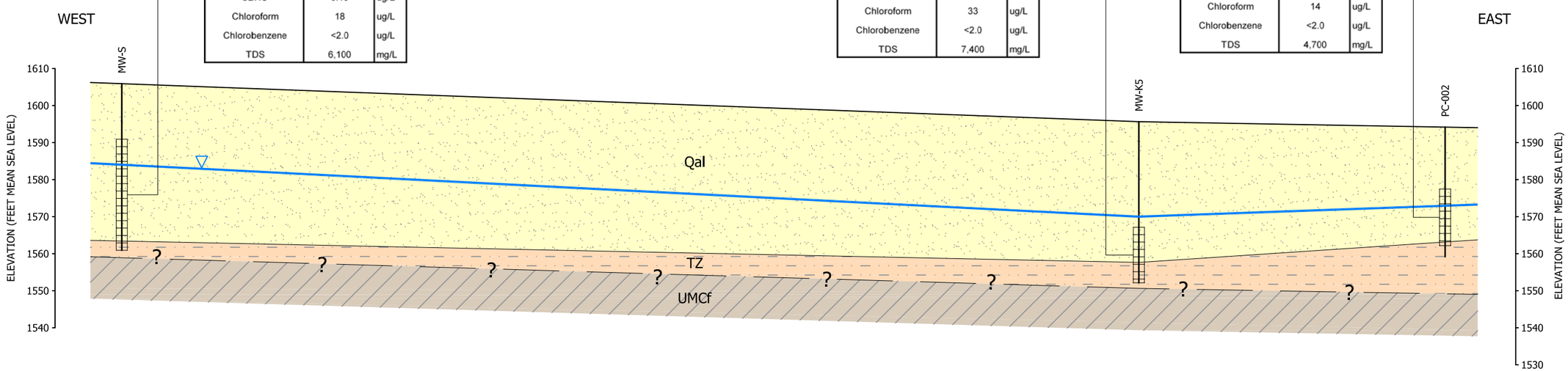
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.23	mg/L
Benzene	<2.0	ug/L
bBHC	0.18	ug/L
Chloroform	18	ug/L
Chlorobenzene	<2.0	ug/L
TDS	6,100	mg/L

Well MW-K5

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.16	mg/L
Benzene	<2.0	ug/L
bBHC	0.25	ug/L
Chloroform	33	ug/L
Chlorobenzene	<2.0	ug/L
TDS	7,400	mg/L

Well PC-002

Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.072	mg/L
Benzene	<2.0	ug/L
bBHC	<0.094	ug/L
Chloroform	14	ug/L
Chlorobenzene	<2.0	ug/L
TDS	4,700	mg/L



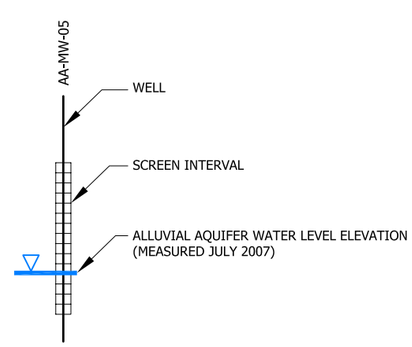
EXPLANATION

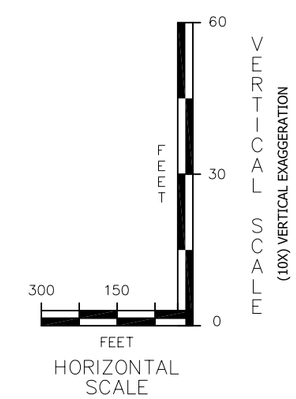
ALLUVIAL AQUIFER
- ALLUVIUM (Qal)
- TRANSITION ZONE (TZ)

FINE-GRAINED UPPER MUDDY CREEK FORMATION (UMCf)

DEFINITIONS

ug/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER
1,2-DCB = 1,2-DICHLOROBENZENE
1,4-DCB = 1,4-DICHLOROBENZENE
bBHC = beta-BENZENE HEXACHLORIDE
TDS = TOTAL DISSOLVED SOLIDS
< = LESS THAN





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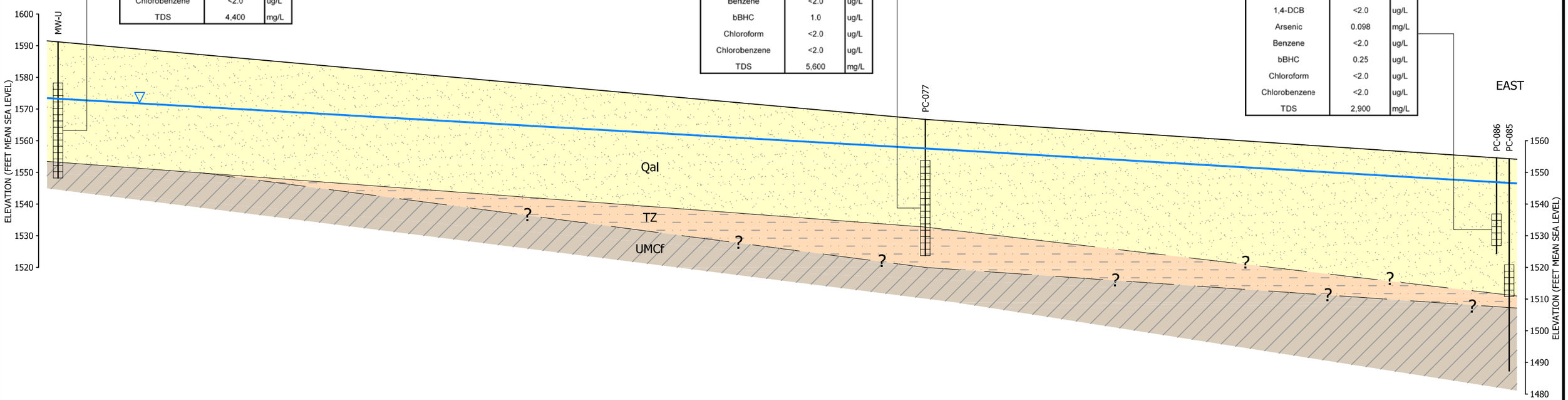
10/07	RPT NO. 754.28	310-0798	A

FIGURE 41. HYDROGEOLOGIC CROSS-SECTION – TRANSECT No. 5

Well MW-U		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.043	mg/L
Benzene	<2.0	ug/L
bBHC	<0.094	ug/L
Chloroform	2.6	ug/L
Chlorobenzene	<2.0	ug/L
TDS	4,400	mg/L

Well PC-077		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.049	mg/L
Benzene	<2.0	ug/L
bBHC	1.0	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	5,600	mg/L

Well PC-086		
Analyte	Concentration	Units
1,2-DCB	<2.0	ug/L
1,4-DCB	<2.0	ug/L
Arsenic	0.098	mg/L
Benzene	<2.0	ug/L
bBHC	0.25	ug/L
Chloroform	<2.0	ug/L
Chlorobenzene	<2.0	ug/L
TDS	2,900	mg/L



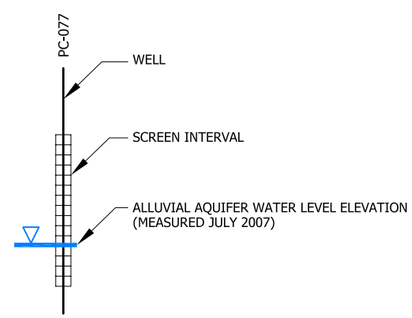
EXPLANATION

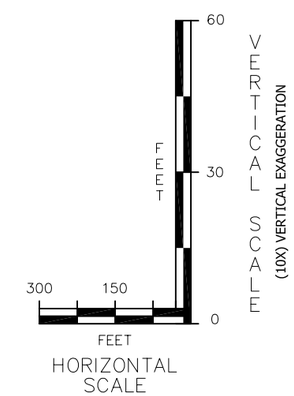
ALLUVIAL AQUIFER
- ALLUVIUM (Qal)
- TRANSITION ZONE (TZ)

FINE-GRAINED UPPER MUDDY CREEK FORMATION (UMCf)

DEFINITIONS

ug/L = MICROGRAMS PER LITER
mg/L = MILLIGRAMS PER LITER
1,2-DCB = 1,2-DICHLOROBENZENE
1,4-DCB = 1,4-DICHLOROBENZENE
bBHC = beta-BENZENE HEXACHLORIDE
TDS = TOTAL DISSOLVED SOLIDS
< = LESS THAN





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10/07	RPT NO. 754.28	310-0799	A

FIGURE 42. HYDROGEOLOGIC CROSS-SECTION – TRANSECT No. 6

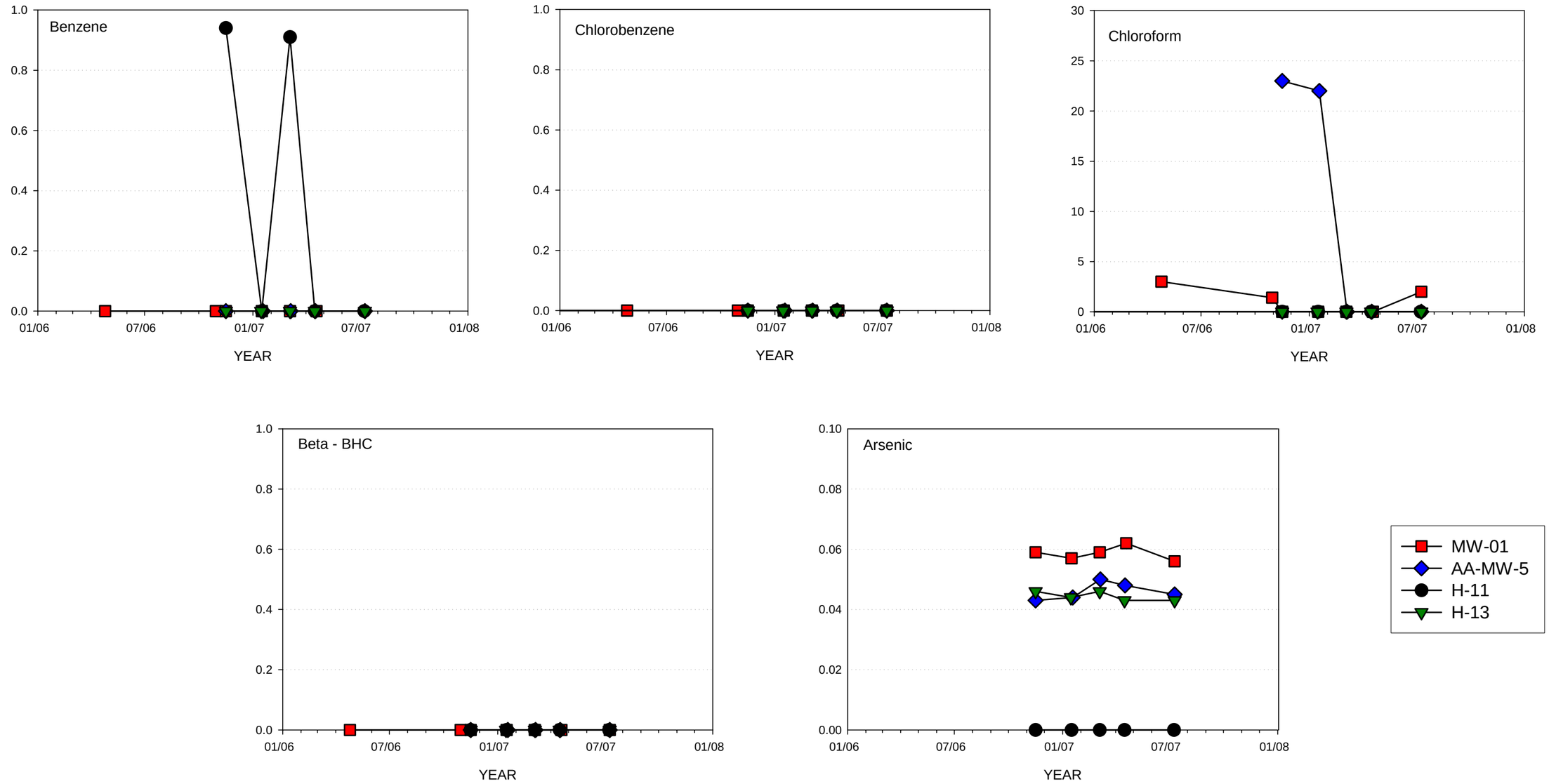

FIGURE 43. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 1.

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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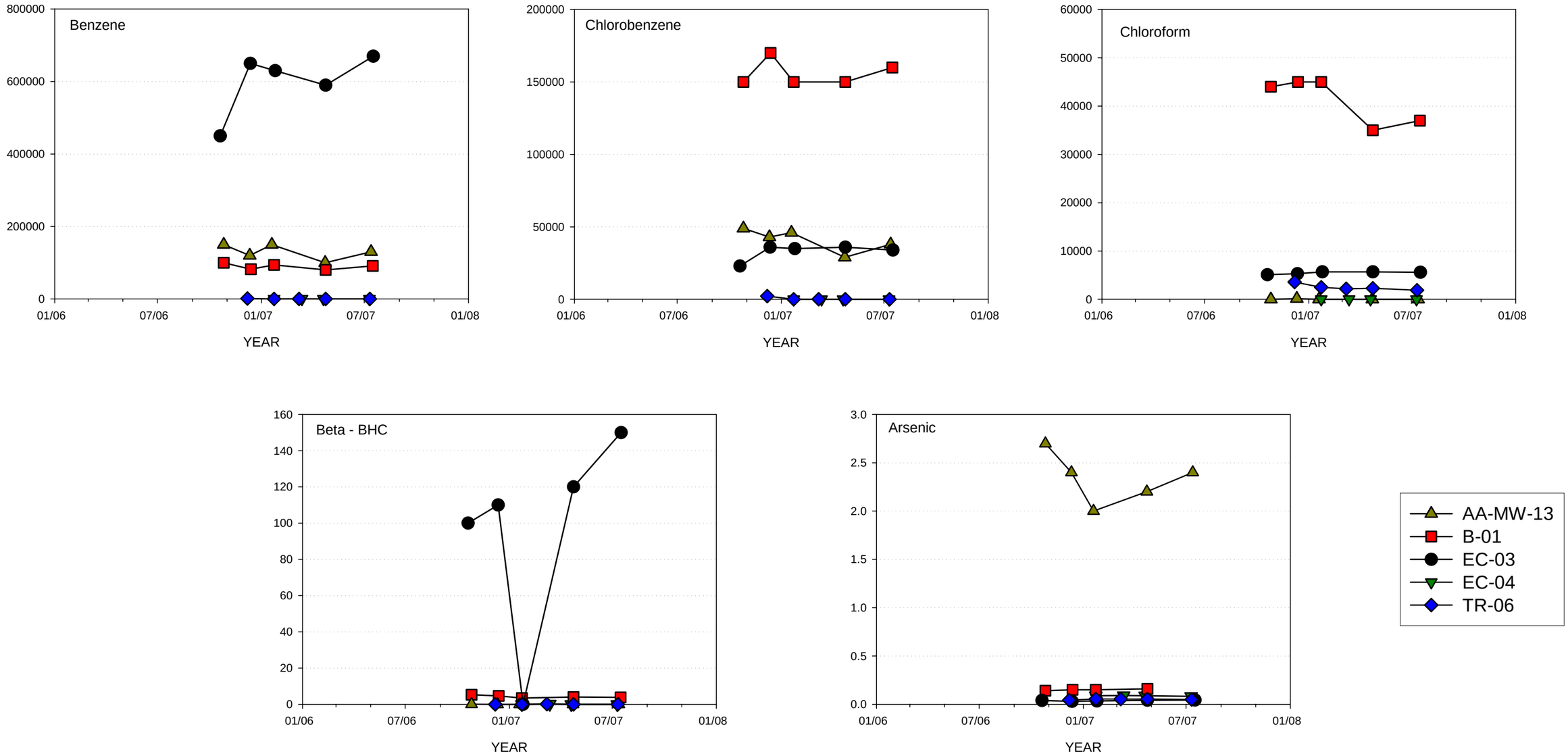

FIGURE 44. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 2

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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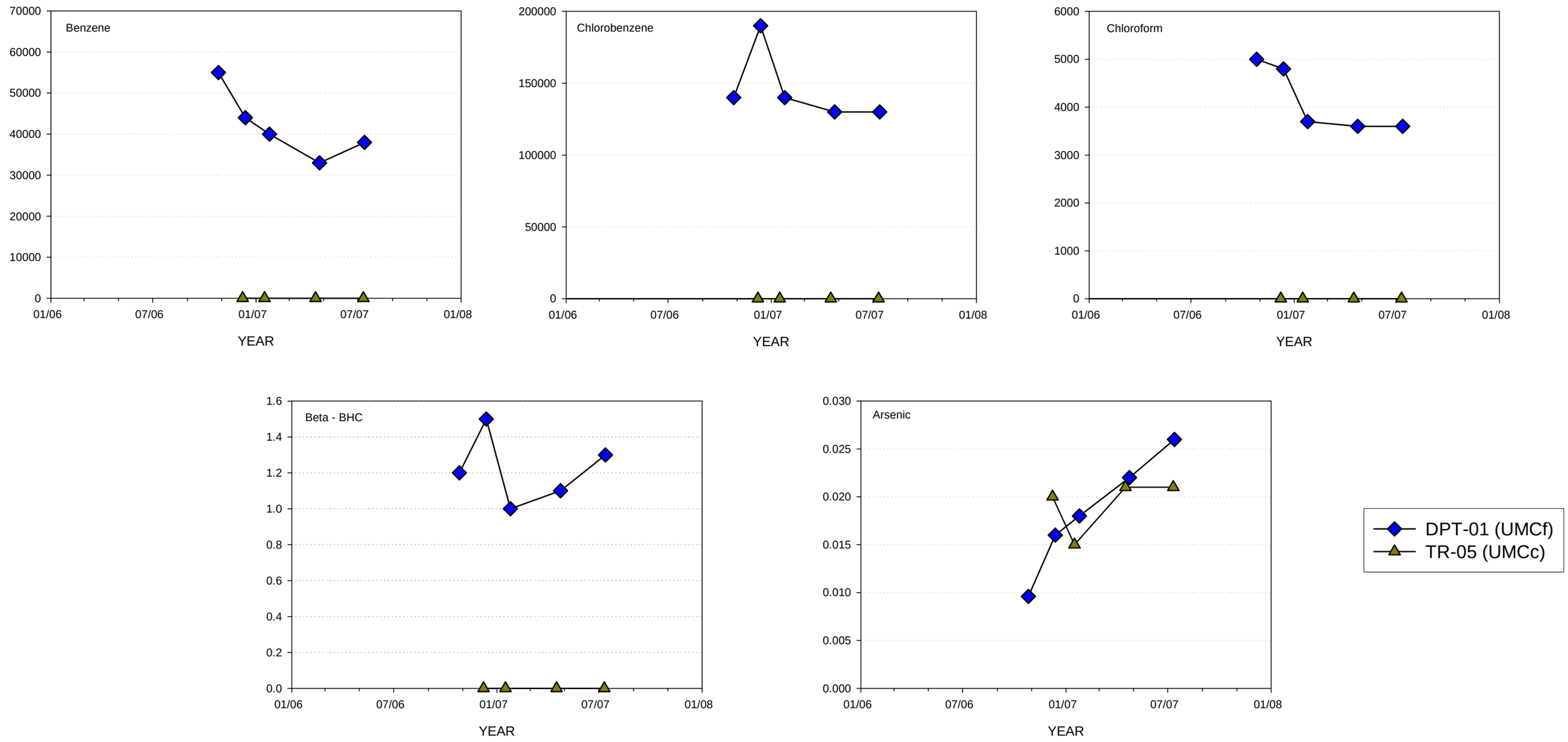

FIGURE 45. GROUNDWATER QUALITY HYDROGRAPHS - UPPER MUDDY CREEK MONITOR WELLS - TRANSECT NO. 2

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.
UMCf = fine grained Upper Muddy Creek
UMCc = coarse grained Upper Muddy Creek

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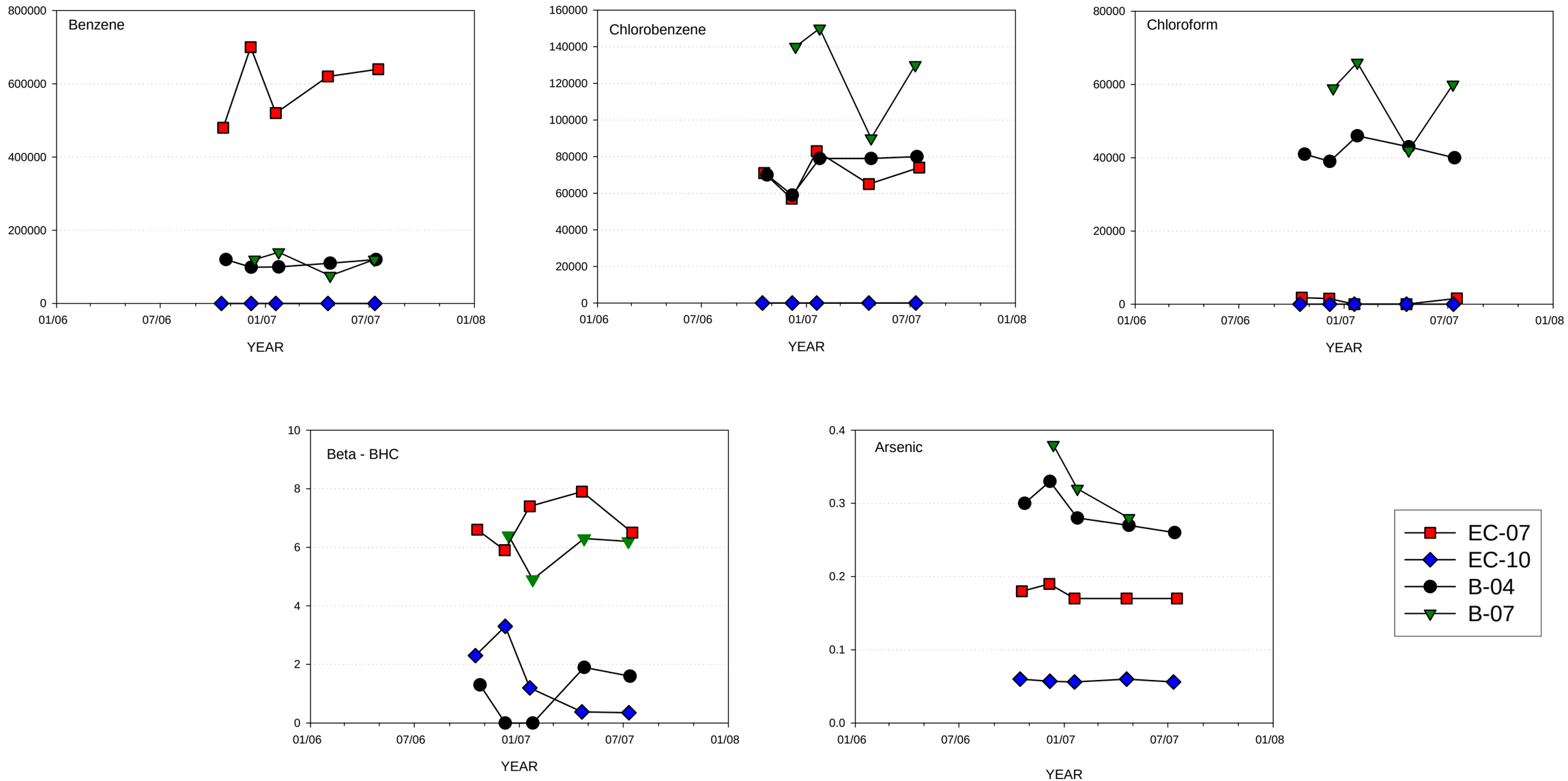

FIGURE 46. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 3

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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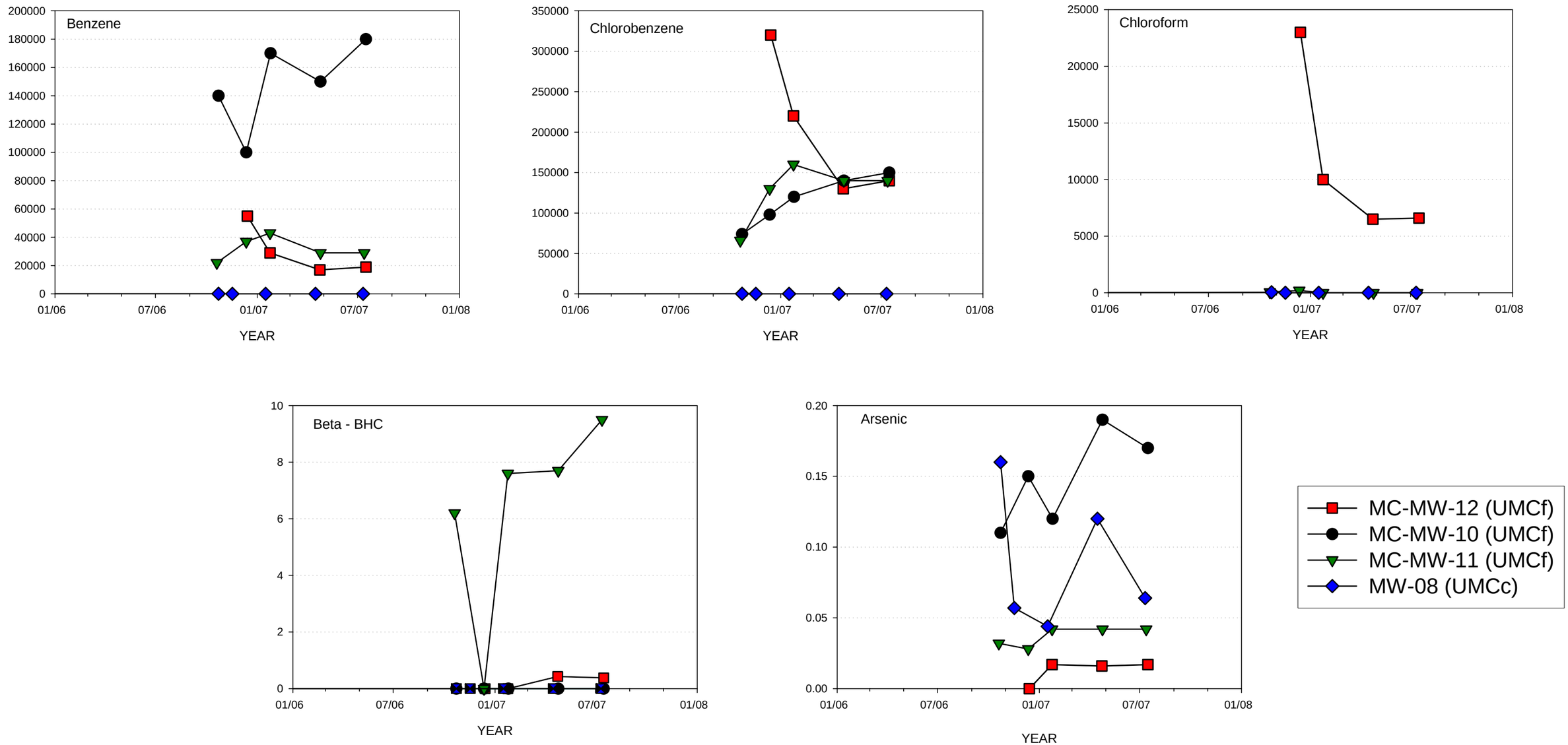

FIGURE 47. GROUNDWATER QUALITY HYDROGRAPHS - UPPER MUDDY CREEK MONITOR WELLS - TRANSECT NO. 3

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.
UMCf = fine grained Upper Muddy Creek
UMCc = coarse grained Upper Muddy Creek

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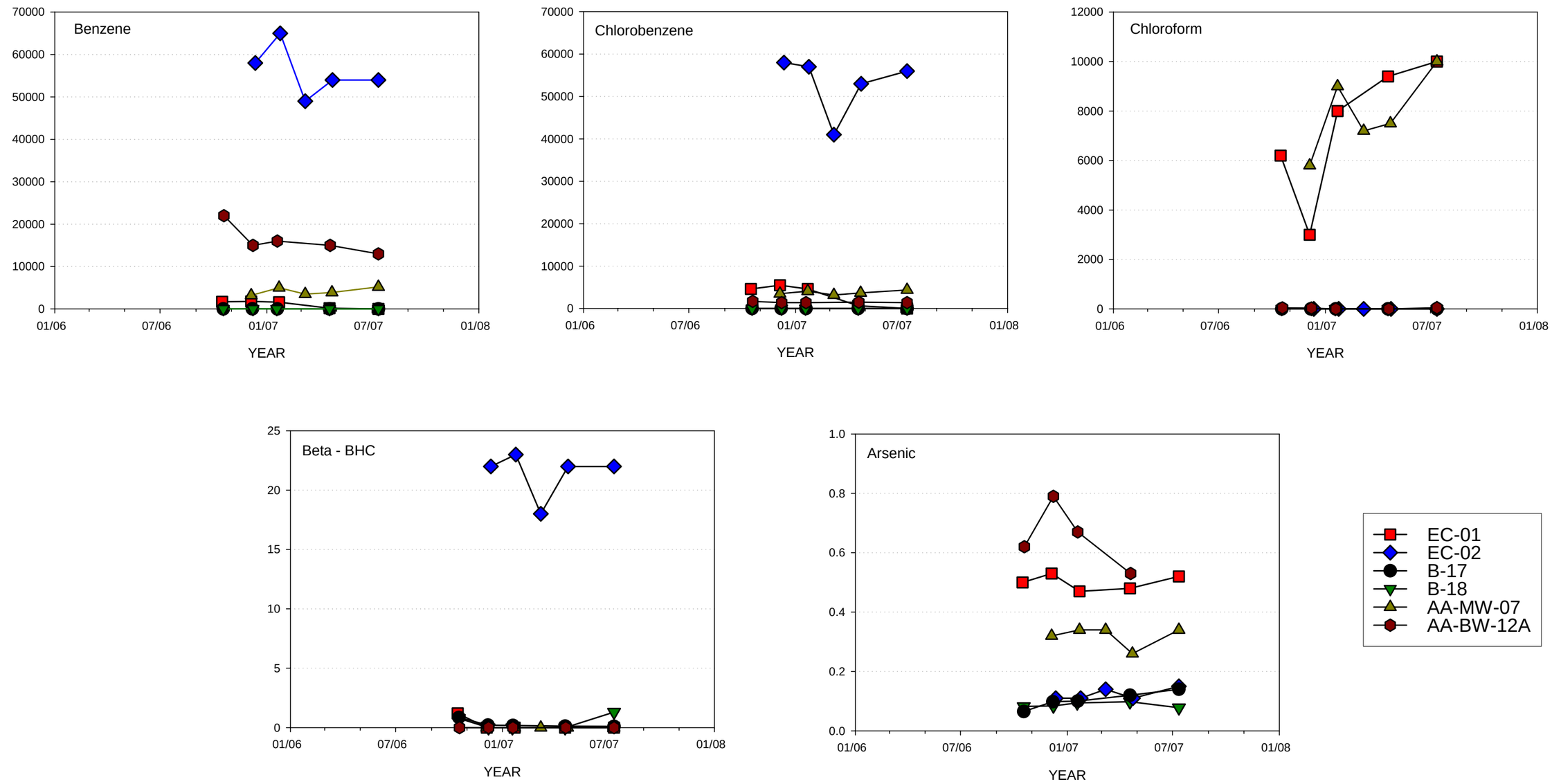

FIGURE 48. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 4

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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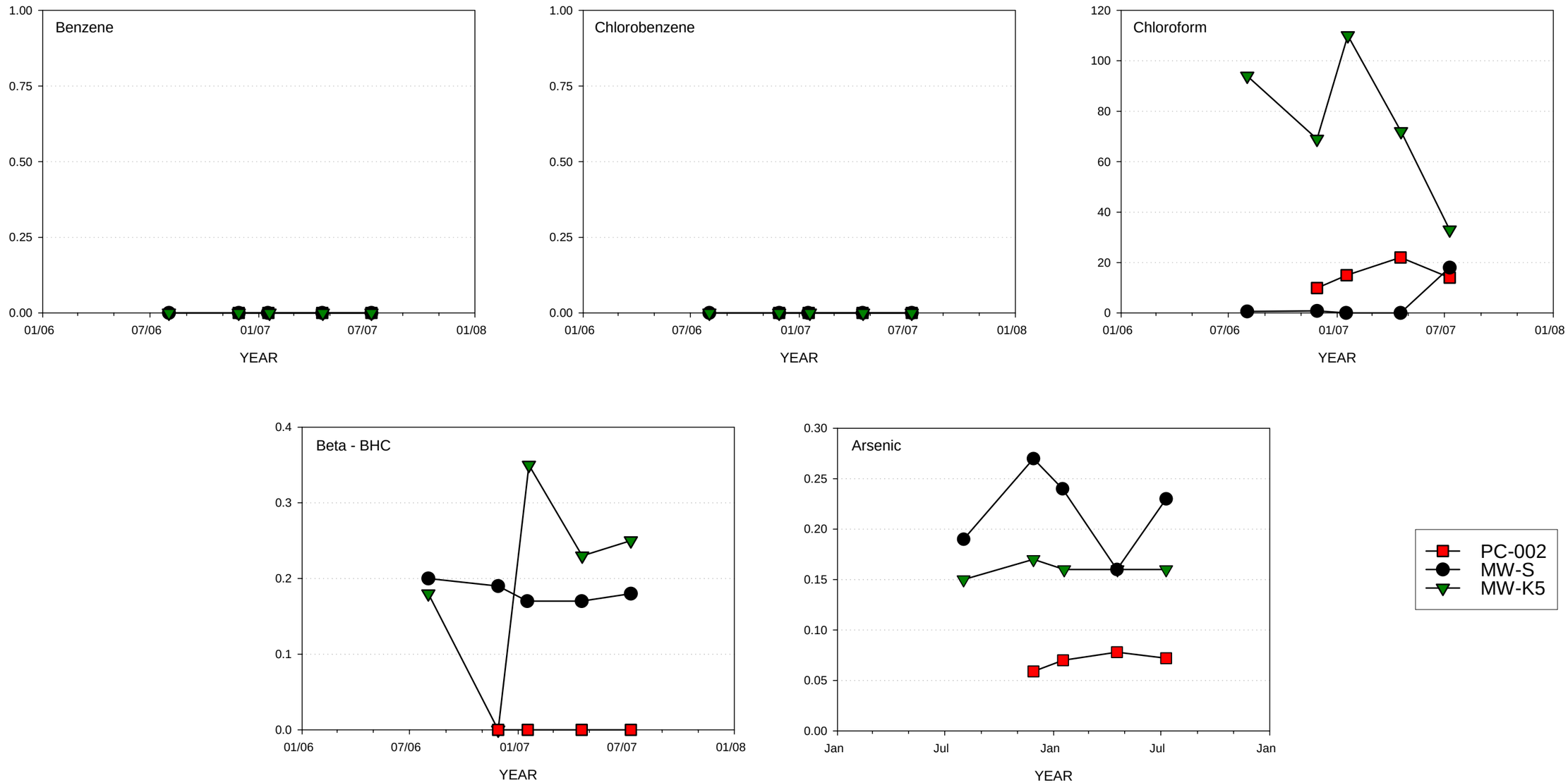

FIGURE 49. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 5

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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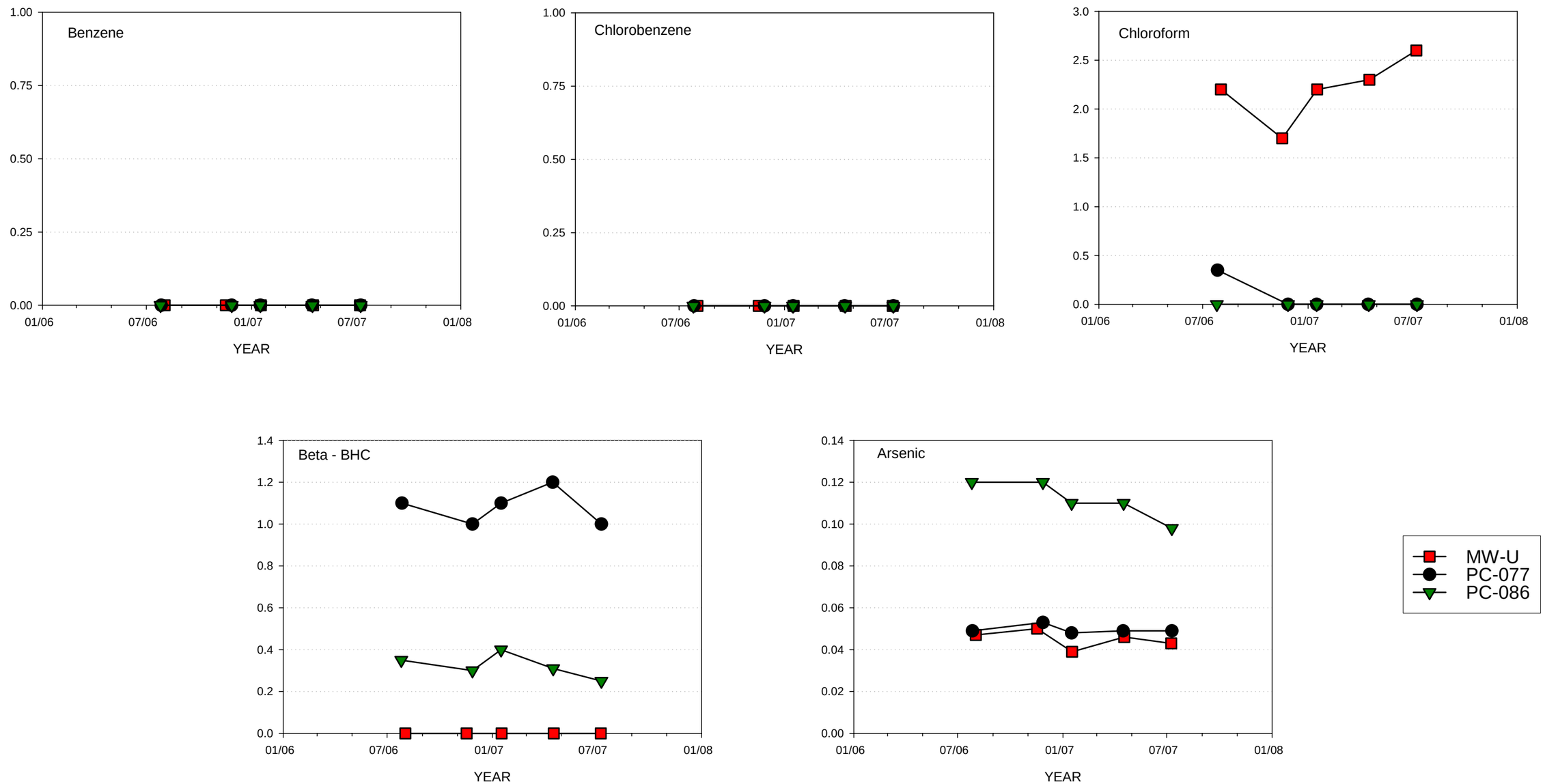

FIGURE 50. GROUNDWATER QUALITY HYDROGRAPHS - ALLUVIAL AQUIFER MONITOR WELLS - TRANSECT NO. 6

Notes
Constituents reported as non-detectable are plotted as zero.
All concentrations are in micrograms per liter.
Arsenic concentrations are in miligrams per liter.

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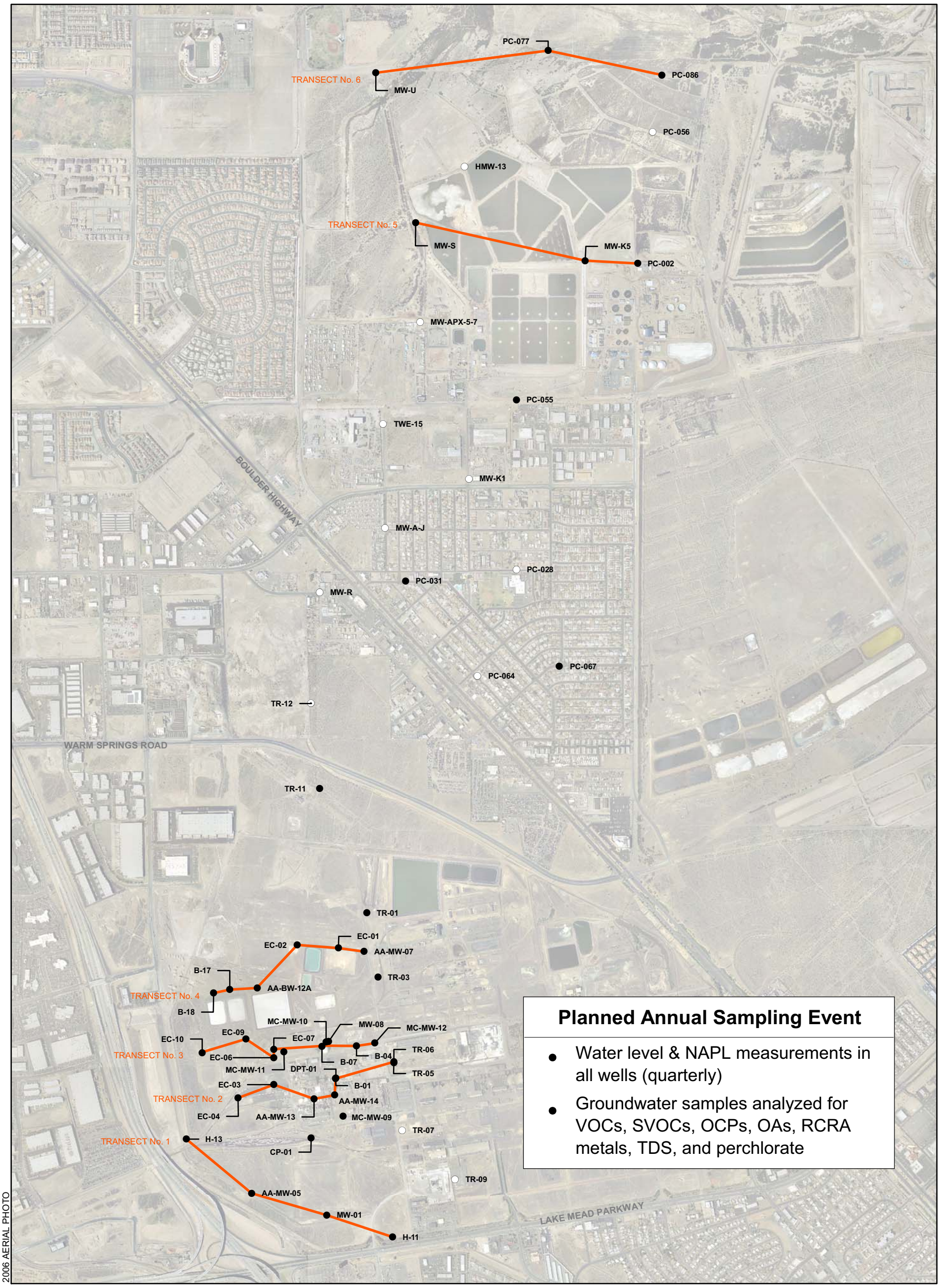

Planned Annual Sampling Event

- Water level & NAPL measurements in all wells (quarterly)
- Groundwater samples analyzed for VOCs, SVOCs, OCPs, OAs, RCRA metals, TDS, and perchlorate

EXPLANATION

QUARTERLY GROUNDWATER MONITORING PROGRAM LOCATION

- ● **B-17** MONITOR WELL GROUNDWATER QUALITY, WATER LEVEL, AND NAPL MONITORING LOCATION
- ○ **MW-A-J** MONITOR WELL WATER LEVEL AND NAPL MONITORING LOCATION
- TRANSECT

NOTES

VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds
OCPs = Organochlorine Pesticides
OAs = Organic Acids
CHCs = Chlorinated Hydrocarbons
COPs = Consent Order Pesticides
TDS = Total Dissolved Solids
NAPL = Non-Aqueous Phase Liquid

N

0 750 1,500
Feet

QUARTERLY GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

PLANNED ANNUAL GROUNDWATER SAMPLING EVENT

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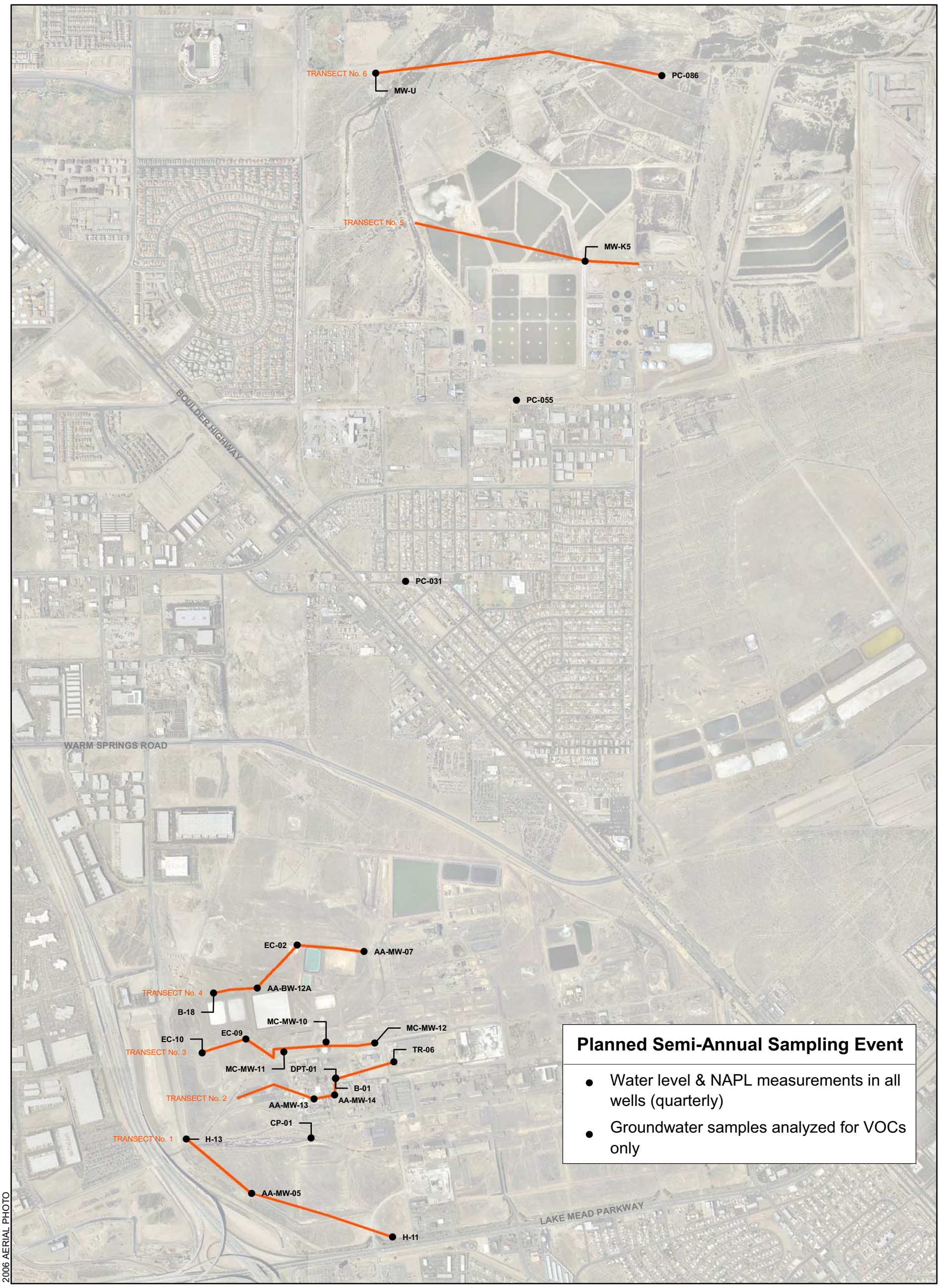
HYDROGEOLOGY • ENGINEERING

10/10/2007

FIGURE 51

PREP BY JWM REV BY BRW RPT NO 754.40 Planned Annual Event.mxd



Planned Semi-Annual Sampling Event

- Water level & NAPL measurements in all wells (quarterly)
- Groundwater samples analyzed for VOCs only

EXPLANATION

QUARTERLY GROUNDWATER MONITORING PROGRAM LOCATION

- ● **EC-02** MONITOR WELL GROUNDWATER QUALITY, WATER LEVEL AND NAPL MONITORING LOCATION
- ○ **MW-A-J** MONITOR WELL WATER LEVEL AND NAPL MONITORING LOCATION
- TRANSECT

NOTES

VOCs = Volatile Organic Compounds
NAPL = Non-Aqueous Phase Liquid

N

0 750 1,500
Feet

QUARTERLY GROUNDWATER MONITORING PROGRAM
MONTROSE, STAUFFER AND OLIN SITES
HENDERSON, NEVADA

PLANNED SEMI-ANNUAL GROUNDWATER SAMPLING EVENT

HARGIS + ASSOCIATES, INC.
HYDROGEOLOGY • ENGINEERING

10/10/2007

FIGURE 52

PREP BY JWM REV BY BRW RPT NO 754.40 Planned Semi-Annual.mxd