GENERAL SEPARATIONS AREA
LARGE MAPS
FOR THE
F- AND H-AREA HAZARDOUS WASTE
MANAGEMENT FACILITY
GROUNDWATER
MONITORING REPORTS (U)

THIRD AND FOURTH QUARTERS 1995
Volume II
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Savannah River Site
Aiken, SC 29808


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SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
IODINE 129
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 150, 500 pCi/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
IODINE 129
GWPS = 50 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 150, 500 pCi/L
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
IODINE 129
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 150, 500 pCi/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
GROSS ALPHA
GWPS = 15 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 500, 1000 pCi/L
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
GROSS ALPHA
GWPS = 15 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"**" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 500, 1000 pCi/L
REFERENCE DOCUMENT #
WSRC-TR-95-0146-4 F-Area Seepage Basins
Groundwater Monitoring Report
WSRC-TR-95-0147-4 H-Area Seepage Basins
Groundwater Monitoring Report

LEGEND

☑ PAVED ROAD

☒ UNPAVED ROAD

☒ STREAM

☒ FENCE LINE

☒ SEEPLINE

☒ RAILROAD

☑ TOPOGRAPHIC CONTOUR
Contour Interval 10 FT

☒ INFERRED
CONSTITUENT CONTOUR

☑ CONSTITUENT CONTOUR

☑ BASIN

☑ RCRA-CERTIFIED
CLOSED BASIN

△ MONITORING WELL
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
GROSS ALPHA
GWPS = 15 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 500, 1000 pCi/L
LEGEND

☑ PAVED ROAD

☒ UNPAVED ROAD

☒ STREAM

☒ FENCE LINE

☒ SEEPLINE

☒ RAILROAD

☒ TOPOGRAPHIC CONTOUR
   Contour Interval 10 FT

☒ INFERRED
   CONSTITUENT CONTOUR

☒ CONSTITUENT CONTOUR

☒ BASIN

☒ RCRA-CERTIFIED
   CLOSED BASIN

☒ MONITORING WELL
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
CADMIUM
GWPS = 5 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 5, 10, 20 ug/L
Approximate northern limit of confined to semi-confined conditions in Aquifer Zone IIIB₁ (Bainwell/McBean)
<table>
<thead>
<tr>
<th>Legend</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>□</td>
<td>PAVED ROAD</td>
</tr>
<tr>
<td>■</td>
<td>UNPAVED ROAD</td>
</tr>
<tr>
<td>▲</td>
<td>STREAM</td>
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<td>FENCE LINE</td>
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<td>SEEPLINE</td>
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<td>▲</td>
<td>RAILROAD</td>
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<td>TOPOGRAPHIC CONTOUR Contour Interval 10 FT</td>
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<td>▼</td>
<td>INFERRED</td>
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<td>▲</td>
<td>CONSTITUENT CONTOUR</td>
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<td>CONSTITUENT CONTOUR</td>
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<td>BASIN</td>
</tr>
<tr>
<td>▼</td>
<td>RCRA-CERTIFIED CLOSED BASIN</td>
</tr>
<tr>
<td>▲</td>
<td>MONITORING WELL</td>
</tr>
</tbody>
</table>
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
CADMIUM
GWPS = 5 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 5, 10, 20 ug/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
CADMIUM
GWPS = 5 ug/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 5, 10, 20 ug/L
CONSTITUENT:

LEAD

GWPS = 15 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 30, 60 ug/L
Approximate northern limit of confined to semi-confined conditions in Aquifer Zone I. (Barnwell/McBean)
LATITUDE-
LONGITUDE

33.261

0 700 1400 2100 2800

Scale 1:700 FT
1:213 M

TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
LEAD
GWPS = 15 ug/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 30, 60 ug/L
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
MERCURY
GWPS = 2 ug/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 2, 4, 8 ug/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
MERCURY
GWPS = 2 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 2, 4, 8 ug/L
Title: Savannah River Site General Separations Area 3rd Quarter '95

Aquifer: Water Table

Constituent: Mercury
GWPS = 2 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 2, 4, 8 ug/L
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
NITRATE
GWPS = 10,000 ug/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 10000, 20000, 40000, 80000, 160000 ug/L

SCALE
1:700 FT
1:213 M
MONITORING WELL
CLOSED BASIN
RCRA-CERTIFIED BASIN
CONSTITUENT CONTOUR
INFRARED
Contour Interval 10 FT
TOPOGRAPHIC CONTOUR
RAILROAD
SEEP LINE
FENCE LINE
STREAM
UNPAVED ROAD
PAVED ROAD

LEGEND

Groundwater Monitoring Report
WSRC-TR-95-0147-4-H-Area Seepage Basins
Groundwater Monitoring Report
WSRC-TR-95-0146-4-R-Area Seepage Basins
REFERENCE DOCUMENT
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
NITRATE
GWPS = 10,000 ug/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 10000, 20000, 40000, 80000, 160000 ug/L
**CONSTITUENT:**
**NONVOLATILE BETA**
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 1000, 2000 pCi/L
LEGEND

☒ PAVED ROAD

☒ UNPAVED ROAD

☒ STREAM

☒ FENCE LINE

☒ SEEPLINE

☒ RAILROAD

☒ TOPOGRAPHIC CONTOUR

Con contour Interval 10 FT

☒ INFERRED

Con constituent CONTOUR

☒ CONSTITUENT CONTOUR

☒ BASIN

☒ RCRA-CERTIFIED

Closed Basin

☒ MONITORING WELL
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
NONVOLATILE BETA
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 1000, 2000 pCi/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
TECHNETIUM 99
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 150, 300 pCi/L
Title: Savannah River Site
General Separations Area 3rd Quarter '95

Aquifer: Barnwell/MeBean

Constituent: Technetium 99
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value is Instrument Reading

Contour Intervals at: 50, 150, 300 pCi/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
TECHNETIUM 99
GWPS = 50 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 50, 150, 300 pCi/L
AQUIFER:
CONGAREE

CONSTITUENT:
STRONTIUM 90
GWPS = 8 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 8, 500, 1000, 2000 pCi/L
Approximate northern limit of confined to semi-confined conditions in Aquifer Zone IIB₁ (Barnwell/McBean)
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
STRONTIUM 90
GWPS = 8 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 8, 500, 1000, 2000 pCi/L
Approximate northern limit of saturation in Aquifer Zone 1IB2 (Water Table)
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
STRONTIUM 90
GWPS = 8 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UT" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 8, 500, 1000, 2000 pCi/L
AQUIFER:
WATER TABLE

CONSTITUENT:
TRITIUM
GWPS = 20 pCi/mL

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 20, 1000, 10000 pCi/mL
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
TRITIUM
GWPS = 20 pCi/mL
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value is Instrument Reading

Contour Intervals at: 20, 1000, 10000 pCi/mL
Title: Savannah River Site General Separations Area 3rd Quarter '95

Aquifer: Congaree

Constituent: Tritium

GWPS = 20 pCi/mL

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 20, 1000, 10000 pCi/mL
**Title:** Savannah River Site General Separations Area 3rd Quarter '95

**Aquifer:** Water Table

**Constituent:** Uranium 233/234

GWPS = 15 pCi/L

"NS" = Not Sampled

"NA" = Not Analyzed

"*" = Wells Not Used to Contour

"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 150, 300 pCi/L
Approximate northern limit of confined to semi-confined conditions in Aquifer Zone IIB₁ (Barnwell/McBean)
**REFERENCE DOCUMENT #**
WSRC-TR-95-0146-4 F-Area Seepage Basins Groundwater Monitoring Report
WSRC-TR-95-0147-4 H-Area Seepage Basins Groundwater Monitoring Report

**LEGEND**
- **▲** PAVED ROAD
- **△** UNPAVED ROAD
- **Ａ** STREAM
- **♦** FENCE LINE
- **▲** SEEPLINE
- **Ａ** RAILROAD
- **Ｎ** TOPOGRAPHIC CONTOUR
  Contour Interval 10 FT
- **Ｎ** INFERRED
  CONSTITUENT CONTOUR
- **Ｎ** CONSTITUENT CONTOUR
- **□** BASIN
- **□** RCRA-CERTIFIED
  CLOSED BASIN
- **▲** MONITORING WELL

---

**Scale:**
- 33.304 - 33.305
- -81.690 - -81.638
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
URANIUM 233/234
GWPS = 15 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 150, 300 pCi/L
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
CONGAREE

CONSTITUENT:
URANIUM 233/234
GWPS = 15 pCi/L

"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 150, 300 pCi/L
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

CONSTITUENT:
URANIUM 238
GWPS = 15 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*"  = Wells Not Used to Contour
"UI"  = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 150, 500, 1000 pCi/L
SCALE 1:700 FT 1:213 M

TITLE:
SAVANNAH RIVER SITE GENERAL SEPARATIONS AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

CONSTITUENT:
URANIUM 238
GWPS = 15 pCi/L
"NS" = Not Sampled
"NA" = Not Analyzed
"*" = Wells Not Used to Contour
"UI" = Analyte Not Detected, Value Is Instrument Reading

Contour Intervals at: 15, 150, 500, 1000 pCi/L
REFERENCE DOCUMENT #
WSRC-TR-95-0146-4 F-Area Seepage Basins
Groundwater Monitoring Report
WSRC-TR-95-0147-4 H-Area Seepage Basins
Groundwater Monitoring Report

LEGEND

✓ PAVED ROAD
✓/✓ UNPAVED ROAD
✓+ STREAM
✓ FENCE LINE
✓ SEEP LINE
✓ RAILROAD
✓ TOPOGRAPHIC CONTOUR
Contour Interval 10 FT
✓ INFERRED
✓ POTENTIOMETRIC CONTOUR
✓ POTENTIOMETRIC CONTOUR
✓ BASIN
✓ RCRA-CERTIFIED
CLOSED BASIN
▲ MONITORING WELL

33.304 -81.690
33.305 -81.638
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
WATER TABLE

NOTES:
POTENTIOMETRIC SURFACE

"NS" = Not Sampled
"*" = Wells Not Used to Contour

Contour Interval: 2 FT
Flow Rates:
Path A: 210 ft/yr
Path B: 150 ft/yr
LATITUDE-
LONGITUDE

33.261
33.261

81.638
81.690

0  700  1400  2100  2800

Scale  1:700 FT
       1:213 M

TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 4th QUARTER '95

AQUIFER:
WATER TABLE

NOTES:
POTENTIOMETRIC SURFACE

"NS" = Not Sampled

"*" = Wells Not Used to Contour

Contour Interval: 2 FT
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 3rd QUARTER '95

AQUIFER:
BARNWELL/McBEAN

NOTES:
POTENTIOMETRIC SURFACE

"NS" = Not Sampled
"*" = Wells Not Used to Contour

Contour Interval: 2 FT
Flow Rates:
Path A: 66 ft/yr
Path B: 180 ft/yr
Flow Rates:
Path A: 310 ft/yr
Path B: 190 ft/yr
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 4th QUARTER '95

AQUIFER:
BARNWELL/McBEAN

NOTES:
POTENTIOMETRIC SURFACE

"NS" = Not Sampled

"*" = Wells Not Used to Contour

Contour Interval: 2 FT
REFERENCE DOCUMENT #
WSRC-TR-95-0146-4 F-Area Seepage Basins
Groundwater Monitoring Report
WSRC-TR-95-0147-4 H-Area Seepage Basins
Groundwater Monitoring Report

LEGEND

- PAVED ROAD
- UNPAVED ROAD
- STREAM
- FENCE LINE
- SEEPLINE
- RAILROAD
- TOPOGRAPHIC CONTOUR
  Contour Interval 10 FT
- INFERRED
- POTENTIOMETRIC CONTOUR
- POTENTIOMETRIC CONTOUR
- BASIN
- RCRA-CERTIFIED
  CLOSED BASIN
- MONITORING WELL
NOTES:

POTENTIOMETRIC SURFACE

"NS" = Not Sampled

"*" = Wells Not Used to Contour

Contour Interval: 1 FT
TITLE:
SAVANNAH RIVER SITE
GENERAL SEPARATIONS
AREA 4th QUARTER '95

AQUIFER:
CONGAREE

NOTES:
POTENTIALMOMETRIC SURFACE
"NS" = Not Sampled
"**" = Wells Not Used to Contour

Contour Interval: 1 FT