



5374 East Otero Drive
Centennial, CO 80122
303-332-5757 O
303-730-2091 F

Mr. Michael Hebert
Remedial Project Manager
U.S. EPA Region 6
1445 Ross Avenue, Suite 1200
Mail Code: 6SF-RL
Dallas, TX 75202

December 15, 2013

RE: November 2013 Monthly Progress Reports as per EPA Region 6 Administrative Orders, South Valley Superfund Site, Docket Number CERCLA 6-16-89 (Former Air Force Plant 83/General Electric Operable Unit), and 6/17/89 (San Jose-6 Operable Unit)

Dear Mr. Hebert:

On behalf of General Electric Aviation (GEA) and in accordance with the above referenced Administrative Orders, Axis Group Inc. herein submits the required monthly progress reports. These reports describe all actions undertaken to comply with these Orders, including general descriptions of the work activities commenced, ongoing, or completed during the current reporting period, and projected for the next reporting period.

Axis Group, Inc. continued activities related to the operations and maintenance phase of the Deep Zone Ground Water Remediation System. Axis Group, Inc. will continue to perform compliance sampling events according to the approved Performance, Compliance and Monitoring Plan (PCMP).

Sincerely,

Axis Group, Inc.

Leonard D. Stockton
Senior Engineer

Enclosures

Michael Hebert
August 15, 2013
Page 2 of 2



Cc:

Mr. A. Pasteris, NMED
Mr. Kent Scott-Smith, Environmental Law and Litigation Division, AFLOA/JACE
Mr. Brian Lynk, DOJ
Mr. M. Gardipe, DOE
Mr. Howard Huie, DOE
Ms. Pamela Arias-Ortega, DOE
Mr. Frederic Shean, City of Albuquerque
Mr. Randall McAlister, GE
Ms. Jennifer Shea, GE
Ms. Julie Einerson, GEA
Mr. J. Billiard, Axis Group, Inc.
Files: Chronological



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December 15, 2013

Mr. Michael Hebert
Remedial Project Manager
U.S. EPA Region 6
1445 Ross Avenue, Suite 1200
Mail Code: 6SF-RL
Dallas, TX 75202

Transmittal
November 2013 Progress Report
Former Air Force Plant 83/GE Operable Unit
Albuquerque, New Mexico

Dear Mr. Hebert:

Enclosed is the November 2013 Progress Report for the Deep Zone Ground Water Remediation System, Former Air Force Plant 83/GE Operable Unit, South Valley Superfund Site, Albuquerque, New Mexico.

If you have any questions or comments, please contact me at (505) 247-3919.

Sincerely,

Axis Group, Inc.

Leonard D. Stockton
Senior Engineer

Enclosures

cc:

Mr. A. Pasteris, NMED
Mr. Kent Scott-Smith, Environmental Law and Litigation Division, AFLOA/JACE
Mr. Brian Lynk, DOJ
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Ms. Pamela Arias-Ortega, DOE
Mr. Howard Huie, DOE
Mr. Frederic Shean, City of Albuquerque
Mr. Randall McAlister, GE
Ms. Jennifer Shea, GE
Ms. Julie Einerson, GEA
Mr. J. Billiard, Axis Group, Inc.
Files: Chronological

**NOVEMBER 2013 PROGRESS REPORT
FORMER AIR FORCE PLANT 83/GE OPERABLE UNIT
SOUTH VALLEY SUPERFUND SITE ALBUQUERQUE,
NEW MEXICO**

Work performed by Axis Group, Inc. for the Former Air Force Plant 83/GE Operable Unit during November 2013 consisted of the following activities:

Shallow Zone Groundwater Remedial Action

No field activity was performed as part of the Shallow Zone Groundwater Remediation as all wells are abandoned and the treatment system has been removed. As identified in EPA's July 18, 2013 letter, GE is working on preparing a draft deed notice for EPA's review so that the Shallow Zone can be formally closed.

Deep Zone Groundwater Remedial Action

1. Continued activities related to the Operations and Maintenance phase of the Deep Zone Groundwater Remediation System.
2. As shown in the November 2013 Monthly Report Log, the Groundwater Treatment Plant (GWTP) extracted a total of approximately 22,000,119 gallons of groundwater for treatment and subsequent injection to the aquifer during the month of November. The GWTP has now treated approximately 6,459,932,623 gallons of groundwater.
3. Performed routine plant maintenance operations as outlined in the manufacturer's maintenance schedules. Maintenance activities performed are recorded in the operator's maintenance log stored at the Deep Zone GWTP.
4. PCMP Items:
 - a) Performed monthly compliance sample at SP-425 port (GE List 8260).
5. Non-PCMP Items:

The Deep Zone GWTP had 0 hours of downtime during the month of November. New flow meters have been ordered for 5 failed flow meters and flow to these wells will be calculated based on flow measured at the other wells and in the GWTP.

Rehabilitation work to improve injection flow capacity was completed on injection well IW-641 from October 20, 2013 through November 1, 2013 and on well IW-642 from October 30, 2013 through November 14, 2013.

December 2013 Tasks

Axis Group, Inc. will conduct the following during December 2013:

- Continue to perform routine plant maintenance operations and resolve new issues as they arise.
- Resolve failed flow meter issues.
- Begin to assemble semi-annual report due in February, 2014.
- Complete groundwater flow modeling to evaluate changes in extraction and injection rates to improve groundwater capture efficiency in specific areas.





5374 East Otero Drive
Centennial, CO 80122
303-332-5757 O
303-730-2091 F

December 2, 2013

Mr. Jess Ward
State Engineers Office
District 1
5550 San Antonio Dr NE
Albuquerque, New Mexico 87109

Transmittal
Monthly Extraction and Injection Rate Totals during November 2013
Extraction Wells RG-62379 POD 1, RG-62379 POD 2, RG-62379 POD 4
and RG-62379 POD19
Injection Wells-Discharge Plan Number 1065
Deep Zone Ground Water Remediation Systems
Former Air Force Plant 83/General Electric Operable Unit
Albuquerque, New Mexico

Dear Mr. Ward:

As requested, this letter transmits the volume of water diverted from extraction wells in General Electric Aviation (GEA) Deep Zone Ground Water Treatment Plant (GWTP). During the period from November 1, 2013 through November 30, 2013, GEA extracted a total of approximately 22,000,119 gallons of ground water from four permitted ground water extraction wells (State of New Mexico Permit Nos. RG-62379 POD 1, RG-62379 POD 2, RG-62379 POD 4 and RG-62379 POD 19) for treatment and subsequent injection through eleven permitted injection wells (State of New Mexico Discharge Plan No. 1065). The November 2013 Monthly Report Log summarizes the volume of water extracted from the four deep zone extraction wells and injected into the aquifer via the eleven permitted injection wells.

If you should have any questions or comments please contact me at (505) 247-3919.

Sincerely,

Axis Group, Inc.

Leonard D. Stockton
Senior Engineer

Enclosure

cc: Julie Einerson, GE Aviation, Contract Environmental Manager

MONTHLY REPORT LOG - November 2013

**Average Flow Rates and Total Water Volumes Diverted
Deep Zone Ground Water Remediation System Extraction and Injection Wells
Plant 83/General Electric Operable Unit, South Valley Superfund Site, Albuquerque, New Mexico**

Operating Period from: 1-Nov-13 through 30-Nov-13

| State of New Mexico Well Designation File or Discharge Plan No. | GE Aircraft Engines and Water Equipment Services Well Designation | Type of Well | Status of Extraction or Injection Well | Average Flow Rate During Operating Period (gallons per minute) | Total Gallons of Water Extracted or Injected | |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------|--------------------|-------------------------------------------|----------------------------------------------------------------------|-------------------------------------------------|-------------|
| | | | | | (Each Well) | (All Wells) |
| RG-62379 POD 1 | EW-001 | Extraction | Operating and consistent w/ permit | 0 | 0 | --- |
| RG-62379 POD 2 | EW-002 | Extraction | Operating and consistent w/ permit | 0 | 0 | --- |
| RG-62379 POD 19 | EW-003R | Extraction | Operating and consistent w/ permit | 369 | 15925542 | --- |
| RG-62379 POD 4 | EW-004 | Extraction | Operating and consistent w/ permit | 141 | 6074577 | 22,000,119 |
| 1065 | IW-631 | Injection | Operating and consistent w/ permit | 0 | 0 | --- |
| 1065 | IW-632 | Injection | Operating and consistent w/ permit | 0 | 0 | --- |
| 1065 | IW-633 | Injection | Operating and consistent w/ permit | 0 | 0 | --- |
| 1065 | IW-634 | Injection | Operating and consistent w/ permit | 53 | 2269898 | --- |
| 1065 | IW-635R | Injection | Operating and consistent w/ permit | 80 | 3436036 | --- |
| 1065 | IW-636 | Injection | Operating and consistent w/ permit | 43 | 1863308 | --- |
| 1065 | IW-637R | Injection | Operating and consistent w/ permit | 69 | 2987280 | --- |
| 1065 | IW-638R | Injection | Operating and consistent w/ permit | 45 | 1931450 | --- |
| 1065 | IW-639 | Injection | Operating and consistent w/ permit | 44 | 1912032 | --- |
| 1065 | IW-640 | Injection | Operating and consistent w/ permit | 9 | 388800 | --- |
| 1065 | IW-641 | Injection | Operating and consistent w/ permit | 106 | 4570379 | --- |
| 1065 | IW-642 | Injection | Operating and consistent w/ permit | 53 | 2309255 | 21,668,438 |

| Approximate Monthly Ground Water Volumes Extracted to Date, in gallons | | | | | | | | | | | |
|------------------------------------------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-96 | Feb-96 | Mar-96 | Apr-96 | May-96 | Jun-96 | Jul-96 | Aug-96 | Sep-96 | Oct-96 | Nov-96 | Dec-96 |
| ---- | ---- | ---- | 3,866,073 | 16,511,846 | 16,625,710 | 22,222,155 | 25,626,385 | 28,646,850 | 34,548,446 | 33,779,695 | 36,559,720 |
| Jan-97 | Feb-97 | Mar-97 | Apr-97 | May-97 | Jun-97 | Jul-97 | Aug-97 | Sep-97 | Oct-97 | Nov-97 | Dec-97 |
| 35,351,323 | 31,148,341 | 34,836,358 | 34,871,339 | 32,015,321 | 35,580,834 | 35,758,395 | 36,136,973 | 35,001,689 | 33,700,433 | 32,788,616 | 34,740,633 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-98 | Feb-98 | Mar-98 | Apr-98 | May-98 | Jun-98 | Jul-98 | Aug-98 | Sep-98 | Oct-98 | Nov-98 | Dec-98 |
| 36,299,502 | 25,881,352 | 35,659,735 | 25,462,103 | 18,842,778 | 20,814,314 | 29,965,005 | 30,443,490 | 28,679,106 | 27,085,499 | 27,671,328 | 34,024,524 |
| Jan-99 | Feb-99 | Mar-99 | Apr-99 | May-99 | Jun-99 | Jul-99 | Aug-99 | Sep-99 | Oct-99 | Nov-99 | Dec-99 |
| 33,102,918 | 23,903,662 | 25,852,988 | 29,712,589 | 35,578,932 | 35,478,643 | 34,308,847 | 32,912,021 | 34,640,529 | 31,015,048 | 32,766,473 | 32,681,533 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-00 | Feb-00 | Mar-00 | Apr-00 | May-00 | Jun-00 | Jul-00 | Aug-00 | Sep-00 | Oct-00 | Nov-00 | Dec-00 |
| 29,707,111 | 31,931,985 | 34,701,614 | 19,084,532 | 25,757,605 | 31,976,286 | 37,233,859 | 34,504,629 | 30,494,373 | 30,925,024 | 34,052,633 | 33,139,016 |
| Jan-01 | Feb-01 | Mar-01 | Apr-01 | May-01 | Jun-01 | Jul-01 | Aug-01 | Sep-01 | Oct-01 | Nov-01 | Dec-01 |
| 35,667,482 | 29,606,720 | 33,385,416 | 33,403,787 | 36,865,104 | 34,977,386 | 24,097,970 | 31,033,467 | 31,003,085 | 31,185,212 | 32,514,625 | 35,908,999 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-02 | Feb-02 | Mar-02 | Apr-02 | May-02 | Jun-02 | Jul-02 | Aug-02 | Sep-02 | Oct-02 | Nov-02 | Dec-02 |
| 31,651,668 | 24,706,720 | 23,995,931 | 25,853,954 | 14,382,245 | 26,370,572 | 35,325,189 | 30,599,377 | 35,759,751 | 40,135,809 | 35,918,206 | 40,495,693 |
| Jan-03 | Feb-03 | Mar-03 | Apr-03 | May-03 | Jun-03 | Jul-03 | Aug-03 | Sep-03 | Oct-03 | Nov-03 | Dec-03 |
| 41,817,294 | 37,701,229 | 37,003,241 | 37,145,400 | 40,735,701 | 40,433,097 | 39,318,316 | 40,274,855 | 39,576,896 | 41,180,466 | 39,899,635 | 39,466,511 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-04 | Feb-04 | Mar-04 | Apr-04 | May-04 | Jun-04 | Jul-04 | Aug-04 | Sep-04 | Oct-04 | Nov-04 | Dec-04 |
| 40,087,310 | 39,148,989 | 41,958,246 | 40,396,326 | 41,509,985 | 40,039,914 | 40,202,005 | 35,247,055 | 39,133,124 | 40,674,509 | 39,501,370 | 39,424,505 |
| Jan-05 | Feb-05 | Mar-05 | Apr-05 | May-05 | Jun-05 | Jul-05 | Aug-05 | Sep-05 | Oct-05 | Nov-05 | Dec-05 |
| 41,405,217 | 36,974,141 | 38,854,541 | 38,797,226 | 40,517,584 | 39,437,025 | 40,716,959 | 38,888,237 | 35,696,825 | 32,155,183 | 38,370,137 | 38,849,076 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-06 | Feb-06 | Mar-06 | Apr-06 | May-06 | Jun-06 | Jul-06 | Aug-06 | Sep-06 | Oct-06 | Nov-06 | Dec-06 |
| 40,771,369 | 34,932,992 | 39,797,912 | 39,128,752 | 40,130,443 | 38,515,273 | 40,645,883 | 33,072,617 | 38,121,290 | 39,483,775 | 38,681,463 | 36,771,116 |
| Jan-07 | Feb-07 | Mar-07 | Apr-07 | May-07 | Jun-07 | Jul-07 | Aug-07 | Sep-07 | Oct-07 | Nov-07 | Dec-07 |
| 33,692,367 | 32,594,558 | 38,756,178 | 37,688,460 | 36,020,681 | 35,419,785 | 33,700,946 | 35,658,116 | 31,288,711 | 25,661,960 | 27,229,899 | 37,549,811 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-08 | Feb-08 | Mar-08 | Apr-08 | May-08 | Jun-08 | Jul-08 | Aug-08 | Sep-08 | Oct-08 | Nov-08 | Dec-08 |
| 32,592,845 | 29,161,677 | 16,788,035 | 18,006,643 | 35,214,792 | 35,672,969 | 36,260,493 | 37,844,789 | 35,513,601 | 24,861,618 | 21,445,045 | 24,274,100 |
| Jan-09 | Feb-09 | Mar-09 | Apr-09 | May-09 | Jun-09 | Jul-09 | Aug-09 | Sep-09 | Oct-09 | Nov-09 | Dec-09 |
| 24,798,668 | 22,024,272 | 24,533,937 | 23,431,506 | 24,310,585 | 23,032,537 | 24,249,117 | 24,060,874 | 22,616,288 | 23,863,370 | 23,574,858 | 23,487,769 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-10 | Feb-10 | Mar-10 | Apr-10 | May-10 | Jun-10 | Jul-10 | Aug-10 | Sep-10 | Oct-10 | Nov-10 | Dec-10 |
| 22,786,864 | 20,734,528 | 22,773,179 | 22,245,171 | 22,957,787 | 21,270,406 | 18,430,160 | 17,539,080 | 20,358,020 | 15,378,402 | 19,872,327 | 25,505,186 |
| Jan-11 | Feb-11 | Mar-11 | Apr-11 | May-11 | Jun-11 | Jul-11 | Aug-11 | Sep-11 | Oct-11 | Nov-11 | Dec-11 |
| 25,366,150 | 22,127,194 | 25,439,678 | 24,501,546 | 24,780,598 | 17,428,299 | 25,170,464 | 21,798,143 | 26,927,628 | 29,879,012 | 29,328,010 | 25,561,216 |

| | | | | | | | | | | | |
|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Jan-12 | Feb-12 | Mar-12 | Apr-12 | May-12 | Jun-12 | Jul-12 | Aug-12 | Sep-12 | Oct-12 | Nov-12 | Dec-12 |
| 27,387,216 | 28,733,669 | 29,468,328 | 27,899,861 | 30,375,738 | 27,182,839 | 27,926,993 | 26,729,915 | 14,216,474 | 10,742,063 | 6,298,472 | 20,397,779 |
| Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 | Jul-13 | Aug-13 | Sep-13 | Oct-13 | Nov-13 | Dec-13 |
| 20,364,237 | 20,319,397 | 24,056,639 | 23,057,612 | 24,031,623 | 22,781,358 | 22,106,647 | 22,163,967 | 14,053,603 | 21,530,880 | 22,000,119 | |

| | | | |
|----------------------------------------------------------|--|---------------|---------|
| Approximate Total Ground Water Volume Extracted to Date: | | 6,452,932,623 | Gallons |
|----------------------------------------------------------|--|---------------|---------|

Notes:
1. All data recorded in Access file.

FILE NO.

RG-62379 Pod 1
RG-62379 Pod 2
RG-62379 Pod 4
RG-62379 Pod 19

FROM: GENERAL ELECTRIC AIRCRAFT
336 Woodward Road, SE
Albuquerque, New Mexico 87 012

TO: OFFICE OF THE STATE ENGINEER, DISTRICT 1 - (505) 764-3888
121 TIJERAS, NE, STE 2000
ALBUQUERQUE, NM 87102-3400

| METER READING DATE | EW-003R | EW-001 | EW-002 | EW-004 |
|--------------------------|------------------|------------------|------------------|------------------|
| | RG-62397 | RG-62397-S | RG-62397-S-2 | RG-62397-S-3 |
| | METER READING | METER READING | METER READING | METER READING |
| 12/1/12 | 1312880794 | 2818255783 | 1504532607 | 559993654 |
| 1/1/13 | 1327043560 | 2818255783 | 1504532607 | 566228667 |
| 2/1/13 | 1341132011 | 2818255783 | 1504532607 | 572504453 |
| 3/1/13 | 1355672330 | 2818255783 | 1504532607 | 578283531 |
| 4/1/13 | 1373341626 | 2818255783 | 1504532607 | 584670847 |
| 5/1/13 | 1390271990 | 2818260867 | 1504537409 | 590780246 |
| 6/1/13 | 1407931563 | 2818260867 | 1504537409 | 597142400 |
| 7/1/13 | 1424654169 | 2818260867 | 1504537409 | 603209152 |
| 8/1/13 | 1440843773 | 2818260867 | 1504537409 | 609126195 |
| 9/1/ | 1457046423 | 2818260867 | 1504537409 | 615087512 |
| 10/1/ | 1467287482 | 2818276752 | 1504551304 | 618870276 |
| 11/1/ | 1482891322 | 2818276752 | 1504551304 | 624797316 |
| 12/1/ | 1498816864 | 2818276752 | 1504551304 | 630871893 |

SIGNED: 

DATE: 12/2/2013

IN ACCORDANCE WITH ARTICLE 1-18.4, METER READING (S) SHALL BE RECORDED IN WRITING ON THE FIRST DAY OF EACH MONTH ON A FORM ACCEPTABLE TO THE STATE ENGINEER; AND THE WRITTEN RECORD OF THE MONTHLY METER READING OF WITHDRAWALS OF WATER FOR THE PRECEDING CALENDAR MONTH SHALL BE SUBMITTED TO THE STATE ENGINEER ON OR BEFORE THE TENTH DAY OF EACH MONTH.

THIS FORM IS FOR YOUR CONVENIENCE. PLEASE POST IT NEAR THE METER TO SERVE AS A REMINDER TO MAIL IN THE REQUIRED METER READINGS.

PLEASE MAKE EXTRA COPIES OF THIS FORM AND USE THEM WHEN REPORTING YOUR READINGS. REFER TO THE ABOVE FILE NUMBER WHEN MAILING YOUR MONTHLY METER READINGS.

SEO795
OSE1099
OSE 100