



Los Alamos Technical Associates, Inc.

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August 13, 2015

Mr. Saqib Khan  
Project Manager  
US Army Corps of Engineers  
Kansas City District  
601 East 12th Street  
Kansas City, Missouri 64106

SUBJECT: August 2015 Operating Report for the Vestal Well Field 1-1 Superfund Site, Area 4,  
Vestal, New York

Dear Mr. Khan:

Attached is the monthly report for August 2015 on the activities being performed at the Vestal Well field 1-1 Superfund Site, Area 4, Vestal, New York. This report details the activities and data collected at the site over the operating period.

If you have any questions, please feel free call me at (614) 508-1200.

Sincerely,  
LOS ALAMOS TECHNICAL ASSOCIATES, INC.

A handwritten signature in blue ink, appearing to read 'Nathan Canaris', is written over a light blue rectangular background.

Nathan Canaris  
Project Manager

Attachments

cc: Sharon Trocher- USEPA  
Payson Long – NYS DEC  
Tom Cimorelli –USACE-NYD  
Timothy Leonard – USACE- NYD  
Frank Bales –USACE-NWK  
File

TO: Saqib Khan, Project Manager  
United States Army Corps of Engineers (USACE)

FROM: Nathan Canaris, Project Manager  
Los Alamos Technical Associates, Inc. (LATA)

SUBJECT: August 2015 Monthly Report on Activities at the Vestal Well field 1-1 Superfund Site, Area 4, Vestal, New York

**LATA Project # 11202**  
**Contract # W912DQ-09-D-3003,**  
**Task Order # 008**

DATE: August 13, 2015

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## **CURRENT ACTIVITIES**

LATA's technician visited the Vestal Area 4 Site for the regularly scheduled monthly O&M visit on August 8, 2015 to perform the routine monthly inspection and testing of the facilities and equipment.

Work performed during the August 8<sup>th</sup> visit was; inspect the main treatment system and cell buildings and surrounding areas for issues, inspect the equipment in the main building and ancillary buildings, re-start the system to verify operation, and collect data and equipment readings in the main building and ancillary buildings. Details and photos of the visit are attached. The site inspection forms detailing the data readings collected and observations during the site visit are attached to this report.

No other operational issues were noted during the inspection. Both the distribution buildings and the adjacent parking lot area were inspected and no issues were noted.

There were no communications or concerns with local municipalities or others during this inspection.

### **Blower Run Hours**

| <b>Date</b>              | <b>Hour Meter Reading</b> |
|--------------------------|---------------------------|
| 07/02/15                 | 18,329.8                  |
| 08/08/15                 | 18,331.0                  |
| <b>1.2 hrs. run time</b> |                           |

## **OUTSTANDING ISSUES/RESOLUTIONS**

NONE

## **PLANS FOR NEXT MONTH**

Plans for the September 2015 visit includes inspection and collection of SVE system readings and its components and other maintenance as required.

**TOTAL ELECTRICITY USAGE**  
**DW96941964 Vestal Well Field**

| Year     | 2008     |          |          | 2009     |          |          |          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month    | Oct      | Nov      | Dec      | Jan      | Feb      | Mar      | Apr      | May      | June     | July     | Aug      | Sept     | Oct      | Nov      | Dec      |
| kwh used | 1105     | 2417     | 3728     | 4141     | 4004     | 2995     | 1847     | 475      | 350      | 311      | 347      | 552      | 2011     | 1918     | 4134     |
| Cost     | \$389.66 | \$483.00 | \$588.73 | \$716.13 | \$492.59 | \$428.00 | \$331.56 | \$190.91 | \$292.77 | \$282.02 | \$350.19 | \$233.91 | \$382.99 | \$372.20 | \$776.85 |

2009 YTD Total Usage (kwh) = 23,085  
2009 YTD Total Cost = \$4,850.12

**Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas**

| Year     | 2010     |          |          |          |          |          |          |          |          |          |          |          |
|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month    | Jan      | Feb      | Mar      | Apr      | May      | June     | July     | Aug      | Sept     | Oct      | Nov      | Dec      |
| kwh used | 3360     | 3567     | 2892     | 585      | 1189     | 400      | 303      | 342      | 308      | 1184     | 3113     | 4022     |
| Cost     | \$481.87 | \$569.27 | \$533.39 | \$212.58 | \$227.32 | \$160.27 | \$145.14 | \$136.06 | \$131.83 | \$267.07 | \$459.14 | \$547.56 |

2010 YTD Total Usage (kwh) = 21,265  
2010 YTD Total Cost = \$3,871.50

**Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas**

| Year     | 2011     |          |          |          |           |          |           |        |          |          |          |          |
|----------|----------|----------|----------|----------|-----------|----------|-----------|--------|----------|----------|----------|----------|
| Month    | Jan      | Feb      | Mar      | Apr      | May (1)   | June     | July (1)  | Aug    | Sept (2) | Oct      | Nov      | Dec      |
| kwh used | 4040     | 3667     | 3341     | 2172     | 286       | 319      | 293       | 0      | 678      | 1473     | 3257     | 4579     |
| Cost     | \$460.89 | \$493.33 | \$415.59 | \$338.11 | -\$457.97 | \$144.99 | -\$130.93 | \$0.00 | \$346.60 | \$317.96 | \$487.69 | \$588.15 |

2011 YTD Total Usage (kwh) = 24,105  
2011 YTD Total Cost = \$3,004.41

**Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas**

| Year                         | 2012     |          |          |          |          |          |          |          |             |     |          |          |
|------------------------------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|-----|----------|----------|
| Month                        | Jan      | Feb      | Mar      | Apr      | May      | June     | July     | Aug      | Sept        | Oct | Nov      | Dec      |
| kwh used                     | 4027     | 4141     | 1516     | 515      | 334      | 344      | 289      | 325      | 303         | 0   | 1065     | 2601     |
| Cost                         | \$523.86 | \$549.93 | \$287.00 | \$155.04 | \$138.66 | \$161.01 | \$134.87 | \$154.12 | \$316.80    |     | \$302.85 | \$520.97 |
| <b>Account Holder - Shaw</b> |          |          |          |          |          |          |          |          | <b>LATA</b> |     |          |          |

2012 YTD Total Usage (kwh) = 15,460  
2012 YTD Total Cost = \$3,245.11

**Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas**

| Year        | 2013     |          |          |          |          |          |          |          |          |          |          |          |
|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| Month       | Jan      | Feb      | Mar      | Apr      | May      | June     | July     | Aug      | Sept     | Oct      | Nov      | Dec      |
| kwh used    | 2594     | 2875     | 2257     | 740      | 377      | 358      | 344      | 354      | 314      | 641      | 2658     | 3161     |
| Cost        | \$316.55 | \$522.94 | \$485.38 | \$394.71 | \$345.18 | \$347.92 | \$351.75 | \$349.49 | \$344.31 | 123.75 * | \$515.42 | \$677.78 |
| <b>LATA</b> |          |          |          |          |          |          |          |          |          |          |          |          |

\* - NYSEG error on October billing. LATA notified NYSEG of error and will get corrected bill

2013 YTD Total Usage (kwh) = 16,673  
2013 YTD Total Cost = \$4,775.18

**Entire Year Using Renewable Electricity Delivered by New York State Electric & Gas**

| Year        | 2014     |          |          |          |          |          |         |          |          |          |          |          |
|-------------|----------|----------|----------|----------|----------|----------|---------|----------|----------|----------|----------|----------|
| Month       | Jan      | Feb      | Mar      | Apr      | May      | June     | July    | Aug      | Sept     | Oct      | Nov      | Dec      |
| kwh used    | 3356     | 3211     | 2684     | 1007     | 373      | 391      | 286     | 350      | 324      | 352      | 1713     | 2204     |
| Cost        | \$793.03 | \$570.31 | \$581.33 | \$359.97 | \$296.86 | \$294.20 | \$44.15 | \$294.56 | \$292.42 | \$295.25 | \$415.87 | \$239.73 |
| <b>LATA</b> |          |          |          |          |          |          |         |          |          |          |          |          |

2014 YTD Total Usage (kwh) = 16,251  
2014 YTD Total Cost = \$4,477.68

| Year        | 2015     |        |            |         |          |          |          |     |      |     |     |     |
|-------------|----------|--------|------------|---------|----------|----------|----------|-----|------|-----|-----|-----|
| Month       | Jan      | Feb    | Mar        | Apr     | May      | June     | July     | Aug | Sept | Oct | Nov | Dec |
| kwh used    | 2204     | 0 *    | 6735       | 502     | 320      | 400      | 305      |     |      |     |     |     |
| Cost        | \$249.30 | \$0.00 | \$1,203.79 | \$93.37 | \$283.90 | \$394.41 | \$295.20 |     |      |     |     |     |
| <b>LATA</b> |          |        |            |         |          |          |          |     |      |     |     |     |

\* - NYSEG was not able to perform actual meter reading due to snow.

2015 YTD Total Usage (kwh) = 10,466  
2015 YTD Total Cost = \$2,519.97

- (1) = May and July 2011 cost is a previous deposit with interest credited back to account.  
(2) = Usage and costs in September 2011 cover August 2011 as well.  
(3) = Usage and costs in March 2015 cover February 2015 as well.

## **SITE PHOTO LOG**

**Main Building**





**Cell 1**



**Cell 2**



## **SITE VISIT SHEETS**



Los Alamos Technical Associates, Inc.  
756 Park Meadow Road  
Westerville, OH 43081

## Field Data Reading Sheet

Site Name VESTAL Sampled By: S. Samaroo  
Project Number: 60402566.1113064  
Date: 8/8/2015  
Weather: Sunny, 70s

## Instrument Identification

| Make/Model | Cal info | PID | Other |
|------------|----------|-----|-------|
|            |          | NA  | NA    |

## Main Equipment Building

Main Control Panel \_\_\_\_\_ Control Box Locked No Lock Control Door Locked No Lock

Hour Meter Reading - SVE Unit 18331.0

## SVE Pumping Unit

|                                 |              |       |
|---------------------------------|--------------|-------|
| Injection Blower Temp           | <u>180</u>   | °F    |
| Injection Blower Temp Setting   | <u>--</u>    |       |
| Pressure After Injection Blower | <u>&lt;4</u> | " H2O |
| Vacuum Blower Temp              | <u>140</u>   | °F    |
| Vacuum Blower Temp Setting      | <u>--</u>    |       |
| Vacuum After Filter             | <u>16</u>    | " H2O |
| Pressure After Vacuum Blower    | <u>6</u>     | " H2O |

|                        |                                         |                             |                                           |
|------------------------|-----------------------------------------|-----------------------------|-------------------------------------------|
| Grease Seals Checked   | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Date of last Grease <u>11/15/2011</u>     |
| Oil Levels Checked     | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Date of Last Oil Change <u>11/15/2011</u> |
| Belts Checked for Wear | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No | Belt Guard in Place <u>Yes</u>            |

Alarms Present (described below if Yes) ☐ Yes ☒ No

## Comments

Grass and shrubs were trimmed around main building, cobwebs, and mouse droppings was removed. Interior of buildings were also swept additional pest control packets opened.

## General Site Observations

Check and Note Condition of Site

|                                  |                             |                                             |
|----------------------------------|-----------------------------|---------------------------------------------|
| Grass around Buildings           | <input type="checkbox"/> OK | <input checked="" type="checkbox"/> Trimmed |
| Vines and Weeds around Buildings | <input type="checkbox"/> OK | <input checked="" type="checkbox"/> Trimmed |

## Comments

NA

## Field Activity Checklist

|                                                        |                                         |                                        |
|--------------------------------------------------------|-----------------------------------------|----------------------------------------|
| SVE Wellhead air Flows Measured                        | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| SVE Wells Sampled                                      | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Carbon Changeout Performed                             | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Water Removal Performed                                | <input type="checkbox"/> Yes            | <input checked="" type="checkbox"/> No |
| Exterior of Main building and Cell Buildings Inspected | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No            |

## Summary of Process Air Sampling

NA

## Summary of Other Activities

NA





Site Name VESTAL Sampled By: S. Samaroo Date 8/8/2015

**Carbon Bed System**

Check all aboveground piping, valves, fittings and other components for cracks or leaks.  
Check Carbon Beds connections and associated instrumentation

Pressure Before GAC Unit 1 36 " H<sub>2</sub>O  
Temperature Before GAC Unit 1 125 F

Pressure Between GAC Unit 1 and GAC Unit 2 28 "H<sub>2</sub>O

Pressure Before GAC Unit 2 7 " H<sub>2</sub>O  
Temperature Before GAC Unit 2 75 F

**Water Storage Unit**

Check all aboveground piping, valves, fittings and other components for cracks or leaks.  
Check Carbon Beds connections and associated instrumentation

Volume of Water in Storage Tank 0 Gallons  
Water in Containment Vessel ☐ Yes ☒ No Amount 0 Inches

**Cell 1 Distribution Building**

Check all aboveground piping, valves, fittings and other components for cracks or leaks and adequacy of seals

Building Locked ☒ Yes ☐ No  
Control Box Locked ☒ Yes ☐ No  
Control Box Disconnect On ☐ Yes ☐ No 240 V Disconnect On ☐ Yes ☐ No  
Selector Switch ☐ MAN ☐ OFF ☒ AUTO  
Vacuum Status Light ☒ OFF ☐ ON

Electrical Heat Breaker ☒ Yes ☐ No  
Heater Thermostat Setting 38 °F  
Pressure at Injection Manifold 112 "H<sub>2</sub>O  
Temperature at Injection Manifold 66 °F  
Vacuum at Vacuum Manifold 54 "H<sub>2</sub>O  
Temperature at Vacuum Manifold 64 °F  
Vacuum at Knockout Tank 23 "H<sub>2</sub>O  
Water Pump Pressure Relief Settings -- psi

**Cell 2 Distribution Building**

Check all aboveground piping, valves, fittings and other components for cracks or leaks and adequacy of seals

Building Locked ☒ Yes ☐ No  
Control Box Locked ☒ Yes ☐ No  
Control Box Disconnect On ☐ Yes ☐ No 240 V Disconnect On ☐ Yes ☐ No  
Selector Switch ☐ MAN ☐ OFF ☒ AUTO  
Vacuum Status Light ☒ OFF ☐ ON

Electrical Heat Breaker ☒ Yes ☐ No  
Heater Thermostat Setting 40 °F  
Pressure at Injection Manifold 114 "H<sub>2</sub>O  
Temperature at Injection Manifold 64 °F  
Vacuum at Vacuum Manifold 45 "H<sub>2</sub>O  
Temperature at Vacuum Manifold 63 °F  
Vacuum at Knockout Tank 22 "H<sub>2</sub>O  
Water Pimp Pressure Relief Settings -- psi

Comments -NONE

Signature of Operator/Tech Sunil Samaroo Date 8/8/2015