Los Alamos Technical Associates, Inc.

756 Park Meadow Road / Westerville, Ohio 43081 / (614) 508-1200 (phone) / (614) 508-1201 (fax) / www.lata.com

January 18, 2013

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

SUBJECT: December 2012 Operating Report for the Vestal Well field 1-1 Superfund Site, Area 4, Vestal, New York

Dear Mr. Horton:

Attached is the monthly report for December 2012 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.

Shannon Lloyd
Sr. Project Manager

Attachments

cc:

Sharon Trocher- USEPA
Tom Cimarelli –USACE-NYD
Timothy Leonard – USACE- NYD
Payson Long – USACE NYD
Frank Bales –USACE-NWK
File

TO: Kale Horton, Project Manager
United States Army Corps of Engineers (USACE)

FROM: Shannon Lloyd, Project Manager
Los Alamos Technical Associates, Inc. (LATA)

SUBJECT: December 2012 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: January 18, 2013

## CURRENT ACTIVITIES

LATA's technician visited the Vestal Area 4 Site for the regularly scheduled monthly O&M visit on December 12, 2012 to perform the routine monthly inspection and testing of the facilities and equipment.

Work performed during the December 12th visit was; inspect the main and cell buildings and surrounding areas for issues, inspect the equipment in the main building, and re-start the system to verify operation and collect readings. The system started without incident and ran for approximately thirty minutes (see table below) while readings were collected and inspections were conducted. No issues were noted during the period the system was operated. Both the distribution buildings and the adjacent parking lot area were inspected and no problems or deficiencies were noted. The site inspection forms detailing the data readings collected are attached to this report.

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

The electrical use report is attached detailing month by month electric usage for the site

**Blower Run Hours**

| Date | Hour Meter Reading |
|---|---|
| 11/10/12 | 18,299.9 |
| 12/12/12 | 18,300.4 |
| | **0.5 hrs. run time** |

## OUTSTANDING ISSUES/RESOLUTIONS

None at this time

## PLANS FOR NEXT MONTH

Plans for January 2013 include inspection and system readings of the SVE system and its components.

**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 |
| | **Account Holder - Shaw** | | | | | | | | **LATA** | | | |

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

Shaw Account number with NYSE&G is 1003-0378-086
LATA Account number with NYSE&G is 1003-8267-547
Meter readings usually occur during the second week of the month for the previous month, then invoices go out within a week.
(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.

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Westerville, OH 43081

**Field Data Reading Sheet**

**Site Name** VESTAL **Sampled By** S. Lloyd
**Project Number:** 11202
**Date:** 12/12/12
**Weather:** clear 40's

**Instrument Identification**

| Make/Model | PID | Other |
|---|---|---|
| Cal info | N/A | |

**Main Equipment Building**

Main Control Panel: OK
Control Box Locked: N/A
Control Door Locked: N/A
Hour Meter Reading - SVE Unit: 18,300.4

**SVE Pumping Unit**

| | | |
|---|---|---|
| Injection Blower Temp | 180 | °F |
| Injection Blower Temp Setting | | |
| Presure After Injection Blower | 30 | " H2O |
| Vacuum Blower Temp | 130 | °F |
| Vacuum Blower Temp Setting | NA | |
| Vacuum After Filter | NA | " H2O |
| Presure AfterVacuum Blower | 40 | " H2O |

Grease Seals Checked: ☒ Yes ☐ No — Date of last Grease: N/A
Oil Levels Checked: ☒ Yes ☐ No — Date of Last Oil Change: 11/12
Belts Checked for Wear: ☒ Yes ☐ No — Belt Guard in Place: yes

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

**Comments**

**General Site Observations**

Check and Note Condition of Site: No issues, Gate & Bldg locked
Grass around Buildings: ☒ OK ☐ Trimmed
Vines and Weeds around Buildings: ☒ OK ☐ Trimmed

**Comments**

**Field Activity Checklist**

| | | |
|---|---|---|
| SVE Wellhead air Flows Measured | ☐ Yes | ☒ No |
| SVE Wells Sampled | ☐ Yes | ☒ No |
| Carbon Changeout Performed | ☐ Yes | ☒ No |
| Water Removal Performed | ☐ Yes | ☒ No |
| Exterior of Main buliding and Cell Buildings Inspected | ☐ Yes | ☒ No |

Summary of Process Air Sampling

Summary of Other Activities: N/A

Comments

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**Field Data Reading Sheet**

**Site Name** VESTAL **Sampled By:** **Date**

## 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: 25 " H2O
Temperature Before GAC Unit 1: 50 F

Pressure Between GACUnit 1 and GAC Unit 2: 18 "H2O

Pressure ~~Before~~ After GAC Unit 2: 5 " H2O
Temperature ~~Before~~ After GAC Unit 2: 50 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 _____ **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 N A ☐ OFF ☐ ON

Electrical Heat Breaker: ☒ Yes ☐ No
Heater Thermostat Setting: 40 °F
Pressure at Injection Manifold: 150 "H2O
Temperature at Injection Manifold: 40 °F
Vacuum at Vacuum Manifold: 87 "H2O
Temperature at Vacuum Manifold: 40 °F
Vacuum at Knockout Tank: 17.5 "H2O
Water Pimp Pressure Relief Settings: N A 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: 148 "H2O
Temperature at Injection Manifold: 38 °F
Vacuum at Vacuum Manifold: 90 "H2O
Temperature at Vacuum Manifold: 42 °F
Vacuum at Knockout Tank: 11.5 "H2O
Water Pimp Pressure Relief Settings: N/A psi

Comments

**Signature of Operator/Tech** **Date** 12/12/12

# Daily Quality Control Report

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Date:** 12-12-12 | | **Report No.** | | | | | | | | | |
| **Project: VESTAL** | **Day:** | Su | M | T | W | Th | F | Sa | | | |
| | | | | | X | | | | | | |
| **FUDS project no.:** | **Weather:** | Clear | Cloudy | | Overcast | | Rain | Snow | | | |
| | | X | | | | | | | | | |
| **Project Manager:** | **Temp. (°F)** | To 32° | 32° - 50° | | 50° 70° | | 70° - 85° | 85° up | | | |
| **Project QC Officer:** | **Wind:** | Still | Moderate | | High | | | | | | |
| | **Humidity:** | Dry | Moderate | | High | | | | | | |

**Personnel onsite:** Shanna Lloyd - LATA
Sunil Samarao - URS

**Sampling equipment on site:**

N/A

**Work performed:**

- Perform Monthly Maintenance & operational checks
- Train URS (Teaming Partner) Personnel on operation of system & data collection
- replace light bulbs in Moon control bldg lights.

## Daily Quality Control Report (continued)

**Project: VESTAL** **Report no.:**

**FUDS project no.:** **Date:** 12/12/12

| **Quality control activities (including field calibrations):** |
|---|
| NA |
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| **Health and safety levels and activities:** |
| Discuss activities & Hazards. |
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| **Problems encountered/corrective actions taken:** |
| None |
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| **Special notes:** |
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| **Tomorrow's expectations:** |
| Next visit will be in January 2013 |
| |
| |

Sheet 2 of 2

By: _____ Title: PM