

# DAILY OBSERVATION REPORT

Report No.: 72      EA Project File: 1447429      Date: April 16, 2012

## EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



## Site No. 1-52-140

Contractor PM: AECOM – Walter Howard  
NYSDEC PM: Jeffrey Dyber  
Construction Manager: AECOM - Kent Wagener  
Air Monitoring: AECOM  
Health & Safety: AECOM

**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

### Weather Conditions

|                     |             |    |             |    |
|---------------------|-------------|----|-------------|----|
| General Description | Sunny       | am | Sunny       | Pm |
| Temperature         | 50          | Am | 86          | Pm |
| Wind Direction      | 9-14 mph SW | Am | 9-14 mph SW | Pm |

### HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|   |          |        |        |
|---|----------|--------|--------|
| Were there any changes to the Health & Safety Plan?                                       | *Yes ( ) | No (X) | NA ( ) |
| Were there any exceedances at the perimeter action level reported on this date?      Air: | *Yes ( ) | No (X) | NA ( ) |
| Were there any dust/odor issues reported or observed on this date?                        | *Yes ( ) | No (X) | NA ( ) |

### WASTE HAULING:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|  |          |        |        |
|--|----------|--------|--------|
| Were there any vehicles that did not display proper D.O.T. numbers and placards? | *Yes ( ) | No ( ) | NA (X) |
| Were there any vehicles which were not tarped?                                   | *Yes ( ) | No ( ) | NA (X) |

### Materials Removed From Site:

Disposal Facility: 110 Sand Company  
Total Loads (on this date): 0  
Total Loads (to date): 6  
Total Estimated Daily Weight (tons): NA  
Total Approximate\* Weight (tons): 120

\*Actual (total weight) adjusted periodically based on weight tickets submitted by the disposal facilities.

# DAILY OBSERVATION REPORT

Report No.: 72

EA Project File:

1447429

Date: April 16, 2012

## Summary of Events:

- Onsite at 11:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Drilling (Layne) and Les Pennington (Wasatch) already on-site.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed in front of 9 Benjoe Dr. and downwind station installed in front of 3 Benjoe Dr. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig at DDC-09 to prevent contamination of ground surface from drill rig fluids. Traffic Controls and poly-lined fencing were set up around DDC-9 exclusion zone.
- Layne continued drilling DDC-09 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual-rotary/air-rotary techniques. Layne advanced the boring and outer casing to 50 ft below ground surface (bgs) (Gardiners Clay estimated at 88 ft bgs). Water was added to the borehole during drilling operations to increase drilling efficiency. Water was obtained from the fire hydrant located on the corner of Albany Ave. and 45<sup>th</sup> Street. All drill cuttings and water generated during drilling were returned to the surface within the annulus between the drill string and outer casing. Cuttings and water were discharged to a poly lined roll-off. Water will be pumped from the roll-off to DDC-09 well. Drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.
- AECOM installed latches and locks on both Treatment Trailers. Keys will be provided to the NYSDEC.
- No concerns/complaints from residences were documented.
- Offsite at 15:30.

## VISITORS TO SITE:

| NAME | Representing | Entered Exclusion/CRZ Zone |        |
|------|--------------|----------------------------|--------|
| None |              | Yes ( )                    | No ( ) |

## PROJECT SCHEDULE:

- DDC well installation (16 January – 23 April 2012).
- Develop DDC wells (23 April – 07 May 2012).
- DDC well head assembly (30 April – 11 May 2012).

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 16 April 2012



Report No.: 72

EA Project File: 1447429

Date: April 16, 2012

Photographs



Layne drilling DDC-09, looking north.



View of latch and lock installed on access door to Treatment Trailer #1.

# DAILY OBSERVATION REPORT

Report No.: 73 EA Project File: 1447429 Date: April 17, 2012

## EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

## Site No. 1-52-140

Contractor PM: AECOM – Walter Howard  
NYSDEC PM: Jeffrey Dyber  
Construction Manager: AECOM - Kent Wagener  
Air Monitoring: AECOM  
Health & Safety: AECOM

### Weather Conditions

|                     |              |    |              |    |
|---------------------|--------------|----|--------------|----|
| General Description | Sunny        | am | Sunny        | Pm |
| Temperature         | 46           | Am | 77           | Pm |
| Wind Direction      | 11-15 mph NW | Am | 11-15 mph NW | Pm |

### HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|  |          |        |        |
|--|----------|--------|--------|
| Were there any changes to the Health & Safety Plan?                                  | *Yes ( ) | No (X) | NA ( ) |
| Were there any exceedances at the perimeter Air: action level reported on this date? | *Yes ( ) | No (X) | NA ( ) |
| Were there any dust/odor issues reported or observed on this date?                   | *Yes ( ) | No (X) | NA ( ) |

### WASTE HAULING:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|  |          |        |        |
|--|----------|--------|--------|
| Were there any vehicles that did not display proper D.O.T. numbers and placards? | *Yes ( ) | No ( ) | NA (X) |
| Were there any vehicles which were not tarped?                                   | *Yes ( ) | No ( ) | NA (X) |

### Materials Removed From Site:

Disposal Facility: 110 Sand Company  
Total Loads (on this date): 0  
Total Loads (to date): 6  
Total Estimated Daily Weight (tons): NA  
Total Approximate\* Weight (tons): 120

\*Actual (total weight) adjusted periodically based on weight tickets submitted by the disposal facilities.

# DAILY OBSERVATION REPORT

Report No.: 73

EA Project File:

1447429

Date: April 17, 2012

## Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Drilling (Layne) and Les Pennington (Wasatch) on-site.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed in front of 9 Benjoe Dr. and downwind station installed in front of 3 Benjoe Dr. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig at DDC-09 to prevent contamination of ground surface from drill rig fluids. Traffic Controls and poly-lined fencing were set up around DDC-9 exclusion zone.
- Layne continued drilling DDC-09 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual-rotary/air-rotary techniques. Layne advanced the boring and outer casing to 83.0-feet bgs and encountered clay. Water was added to the borehole during drilling operations to increase drilling efficiency. Water was obtained from the fire hydrant located on the corner of Albany Ave. and 45<sup>th</sup> Street. All drill cuttings and water generated during drilling were returned to the surface within the annulus between the drill string and outer casing. Cuttings and water were discharged to a poly lined roll-off. Water will be pumped from the roll-off to DDC-09 well. Drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents. Tomorrow, Layne will begin installing well construction materials at DDC-09.
- AECOM made 6-in. underground air return line connections with Treatment Trailer #1.
- Able Rentals delivered air compressor for DDC well development. Well development will begin on 19 April 2012.
- No concerns/complaints from residences were documented.
- Offsite at 17:00.

## VISITORS TO SITE:

| NAME | Representing | Entered Exclusion/CRZ Zone |        |
|------|--------------|----------------------------|--------|
| None |              | Yes ( )                    | No ( ) |

## PROJECT SCHEDULE:

- DDC well installation (16 January – 23 April 2012).
- Develop DDC wells (23 April – 07 May 2012).
- DDC well head assembly (30 April – 11 May 2012).

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 17 April 2012



Report No.: 73

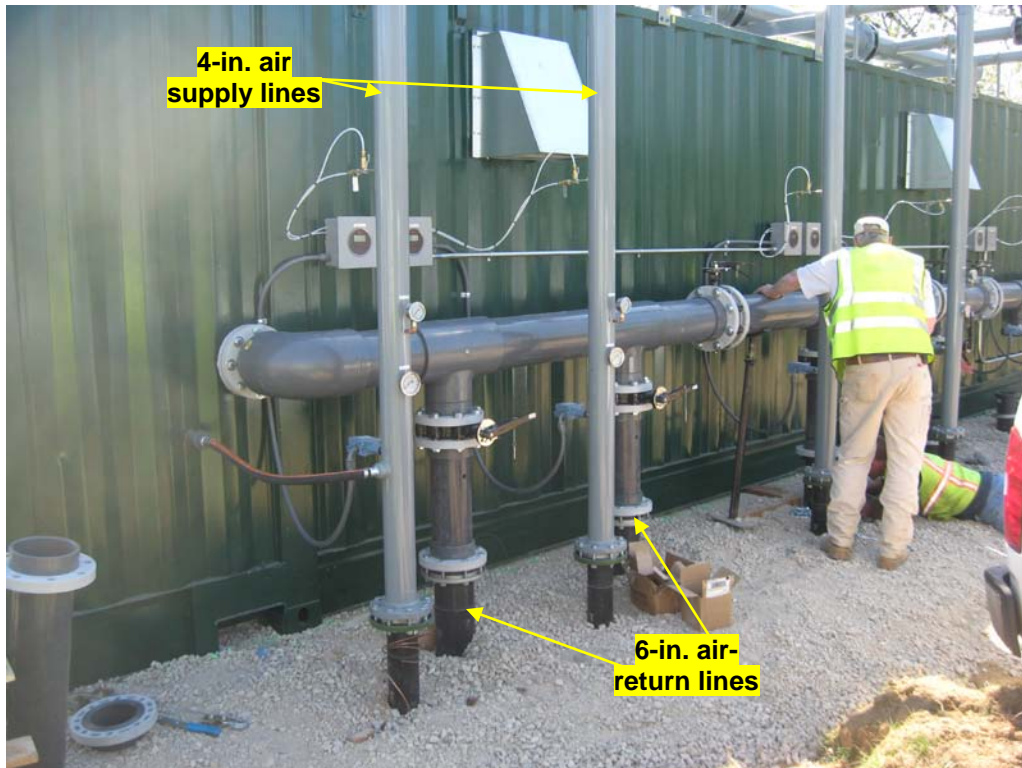
EA Project File: 1447429

Date: April 17, 2012

Photographs



Layne drilling DDC-09, looking north.



AECOM installing 6-in. air-return line connections to Treatment Trailer #1.

Report No.: 73

EA Project File:

1447429

Date: April 17, 2012



View of 6-in. air-return line connection to Treatment Trailer #1 manifold.

# DAILY OBSERVATION REPORT

Report No.: 74      EA Project File: 1447429      Date: April 18, 2012

## EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104  
Syracuse, NY 13211-2158



**NYSDEC Division of Environmental Remediation**  
**Site Location: Albany St., Babylon, NY (Site No. 1-52-140)**

## Site No. 1-52-140

Contractor PM: AECOM – Walter Howard  
NYSDEC PM: Jeffrey Dyber  
Construction Manager: AECOM - Kent Wagener  
Air Monitoring: AECOM  
Health & Safety: AECOM

### Weather Conditions

|                     |               |    |               |    |
|---------------------|---------------|----|---------------|----|
| General Description | Partly Cloudy | am | Partly Cloudy | Pm |
| Temperature         | 46            | Am | 59            | Pm |
| Wind Direction      | 9-11 mph N    | Am | 5-7 mph SE    | Pm |

### HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|   |          |        |        |
|---|----------|--------|--------|
| Were there any changes to the Health & Safety Plan?                                       | *Yes ( ) | No (X) | NA ( ) |
| Were there any exceedances at the perimeter action level reported on this date?      Air: | *Yes ( ) | No (X) | NA ( ) |
| Were there any dust/odor issues reported or observed on this date?                        | *Yes ( ) | No (X) | NA ( ) |

### WASTE HAULING:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

|  |          |        |        |
|--|----------|--------|--------|
| Were there any vehicles that did not display proper D.O.T. numbers and placards? | *Yes ( ) | No ( ) | NA (X) |
| Were there any vehicles which were not tarped?                                   | *Yes ( ) | No ( ) | NA (X) |

### Materials Removed From Site:

Disposal Facility: 110 Sand Company  
Total Loads (on this date): 0  
Total Loads (to date): 6  
Total Estimated Daily Weight (tons): NA  
Total Approximate\* Weight (tons): 120

\*Actual (total weight) adjusted periodically based on weight tickets submitted by the disposal facilities.



# DAILY OBSERVATION REPORT

Report No.: 74

EA Project File:

1447429

Date: April 18, 2012

## Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Drilling (Layne) and Les Pennington (Wasatch) on-site.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed in front of 9 Benjoe Dr. and downwind station installed in front of 3 Benjoe Dr. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig at DDC-09 to prevent contamination of ground surface from drill rig fluids. Traffic Controls and poly-lined fencing were set up around DDC-9 exclusion zone.
- Layne began installing DDC-09 recirculation well (See RAWP Figure 2 for general DDC well construction). The well was constructed of 10-in. diameter Schedule 40 polyvinyl chloride (PVC). Centralizers were used to position the well in the borehole. The 12-ft long lower screen (Johnson HQ 0.020 slot) and 1-ft sump (blank casing) were set at 71-82 ft below ground surface (bgs), with its bottom slot set near the surface of the clay aquitard (83 ft bgs). The 15-ft upper screen was screened from 15 to 30 ft bgs to capture the approximate seasonal water table. Layne installed two, 2-in. diameter, Schedule 40 PVC piezometers, mounted on the outside of the DDC well. The deep piezometer (DDC-09-PD) was placed on the north side of DDC-09 and screened over the same interval as the lower DDC well screen. The shallow piezometer (DDC-09-PS) was placed on the south side of DDC-09 and screened over the same interval as the upper DDC well screen. DDC-09 well construction materials were installed in accordance with AECOM's RAWP Section 2.3.1 Installation of DDC Wells and Figure 2 – DDC Well Construction. Tomorrow (19 April 2012), Layne will begin placing annular materials at DDC-09.
- AECOM and Layne loaded vapor phase carbon into six 2,000 pound carbon vessels located within Treatment Trailer #2. Carbon super sacks were emptied through rooftop access panels above each vessel.
- Adler Tank Rentals delivered one 21,000 gallon fractionation tank for well development water. Well development will begin tomorrow (19 April 2012) at DDC-05.
- No concerns/complaints from residences were documented.
- Offsite at 17:00.

## VISITORS TO SITE:

| NAME | Representing | Entered Exclusion/CRZ Zone |        |
|------|--------------|----------------------------|--------|
|      |              | Yes ( )                    | No ( ) |
| None |              |                            |        |

## PROJECT SCHEDULE:

- DDC well installation (16 January – 23 April 2012).
- Develop DDC wells (23 April – 07 May 2012).
- DDC well head assembly (30 April – 11 May 2012).

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 18 April 2012



Report No.: 74

EA Project File: 1447429

Date: April 18, 2012

Photographs



Layne installing upper screen at DDC-09.



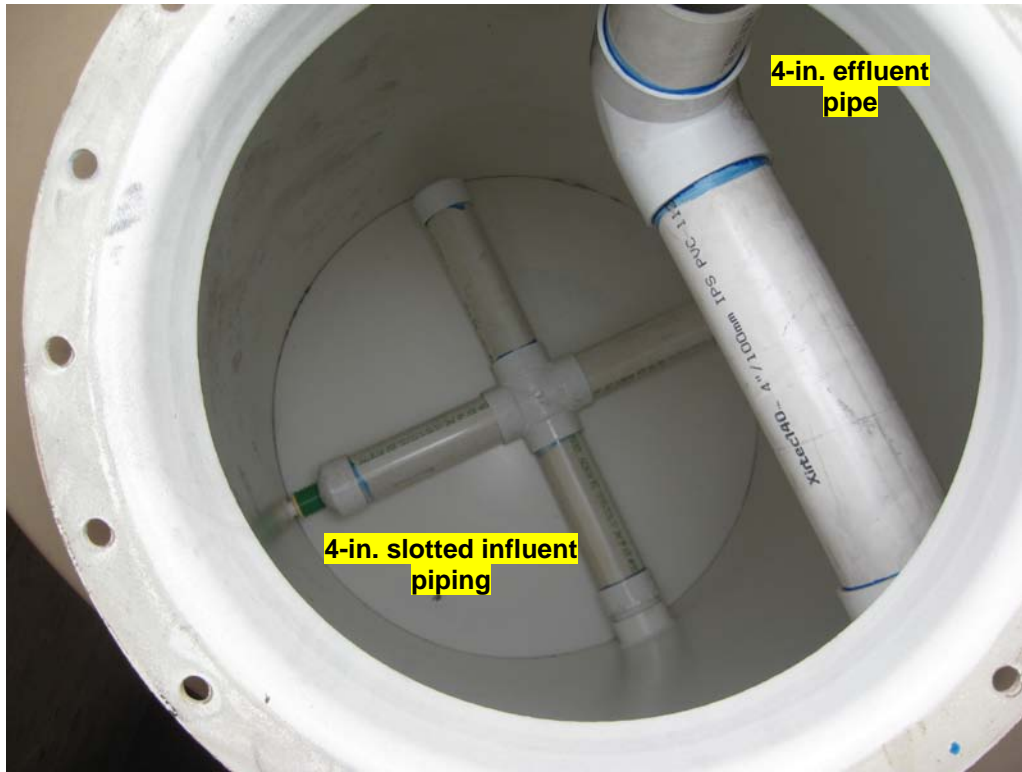
AECOM and Layne installing carbon through rooftop access panels.

Report No.: 74

EA Project File:

1447429

Date: April 18, 2012



Interior of carbon vessel.

DAILY OBSERVATION REPORT

Report No.: 75 EA Project File: 1447429 Date: April 19, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211-2158



Site No. 1-52-140

Contractor PM: AECOM – Walter Howard
NYSDEC PM: Jeffrey Dyber
Construction Manager: AECOM - Kent Wagener
Air Monitoring: AECOM
Health & Safety: AECOM

NYSDEC Division of Environmental Remediation
Site Location: Albany St., Babylon, NY (Site No. 1-52-140)

Weather Conditions

Table with 5 columns: General Description, Cloudy, am, Partly Cloudy, Pm. Rows include Temperature (49, 66) and Wind Direction (2-5 mph NW, 9-11 mph SW).

HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

- Were there any changes to the Health & Safety Plan? \*Yes ( ) No (X) NA ( )
Were there any exceedances at the perimeter Air: action level reported on this date? \*Yes ( ) No (X) NA ( )
Were there any dust/odor issues reported or observed on this date? \*Yes ( ) No (X) NA ( )

WASTE HAULING:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

- Were there any vehicles that did not display proper D.O.T. numbers and placards? \*Yes ( ) No (X) NA ( )
Were there any vehicles which were not tarped? \*Yes ( ) No (X) NA ( )

Materials Removed From Site:
Disposal Facility: 110 Sand Company
Total Loads (on this date): 1
Total Loads (to date): 7
Total Estimated Daily Weight (tons): 20
Total Approximate\* Weight (tons): 140

\*Actual (total weight) adjusted periodically based on weight tickets submitted by the disposal facilities.

# DAILY OBSERVATION REPORT

Report No.: 75

EA Project File:

1447429

Date: April 19, 2012

## Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Drilling (Layne) and Les Pennington (Wasatch) on-site.
- Prior to the start of work, AECOM conducted health and safety meeting, discussed overall goals for day, and setup upwind and downwind air monitoring stations. Upwind station installed in front of 9 Benjoe Dr. and downwind station installed in front of 3 Benjoe Dr. Air monitoring was performed in accordance with the Contract Documents and AECOM's Remedial Action Work Plan (RAWP): Section 4.2 – Dust Monitoring, Section 5.0 – Air Monitoring Plan. No exceedances were recorded.
- Layne maintained poly under drill rig at DDC-09 to prevent contamination of ground surface from drill rig fluids. Traffic Controls and poly-lined fencing were set up around DDC-9 exclusion zone.
- Layne installed annular materials at DDC-09 (See RAWP Figure 2 for general DDC well construction). Ricci #1 sand filter pack was placed appropriate to the lower screen (71–83 ft below ground surface [bgs]). #1 Sand was extended 7-ft above the screen to prevent bentonite from entering well screen. Layne gradually removed 24-in. outer casing as annular material was added to borehole. Annular materials were placed in accordance with AECOM's RAWP Section 2.3.1 Installation of DDC Wells and Figure 2 – General DDC Well Construction. Tomorrow (20 April 2012), Layne will demobilize drill rig, drilling equipment, and traffic controls.

| Annular Materials                  | Depth (ft bgs) |
|------------------------------------|----------------|
| #1 Sand (lower screen filter pack) | 83–64          |
| Bentonite                          | 64–60          |
| #00 Sand                           | 60–50          |
| Bentonite                          | 50–46          |
| #00 Sand                           | 46–38          |
| Bentonite                          | 38–34          |
| #1 Sand (upper screen filter pack) | 34–12          |
| Bentonite                          | 12–10          |
| DDC-09 concrete vault              | 10–0           |

- Layne (well development crew) removed 9.0-feet of sediment in DDC-05. Sediment was removed using a 4-inch diameter steel bailer. Tomorrow (20 April 2012), Layne will begin developing DDC-05.
- Aarco Environmental transported DDC-09 roll-off to 110 Sand Company, Melville, NY for disposal. Waste manifest signed by Rob Peterson (EA) on behalf of NYSDEC. See above section “Waste Hauling” for additional details.
- No concerns/complaints from residences were documented.
- Offsite at 16:30.

## VISITORS TO SITE:

| NAME | Representing | Entered Exclusion/CRZ Zone |        |
|------|--------------|----------------------------|--------|
|      |              | Yes ( )                    | No ( ) |
| None |              |                            |        |

## PROJECT SCHEDULE:

- Develop DDC wells (19 April – 07 May 2012).
- DDC well head assembly (30 April – 11 May 2012).

## ISSUES PENDING:

- None

# DAILY OBSERVATION REPORT

Pg. 3 of 4

Report No.: 75

EA Project File: 1447429

Date: April 19, 2012

## ITEMS OF CONCERN:

- None

**Site Representative:**

Robert Peterson

**Date:** 19 April 2012



Report No.: 75

EA Project File: 1447429

Date: April 19, 2012

**Photographs**



**Layne bailing sediment from DDC-05, looking north.**

DAILY OBSERVATION REPORT

Report No.: 76 EA Project File: 1447429 Date: April 20, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104
Syracuse, NY 13211-2158



Site No. 1-52-140

Contractor PM: AECOM – Walter Howard
NYSDEC PM: Jeffrey Dyber
Construction Manager: AECOM - Kent Wagener
Air Monitoring: AECOM
Health & Safety: AECOM

NYSDEC Division of Environmental Remediation
Site Location: Albany St., Babylon, NY (Site No. 1-52-140)

Weather Conditions

Table with 5 columns: General Description, Sunny, am, Sunny, Pm. Rows include Temperature (53, Am 63, Pm) and Wind Direction (4-6 mph NE, Am 8-11 mph SE, Pm).

HEALTH & SAFETY:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Table with 4 columns: Question, \*Yes ( ), No (X), NA ( ). Rows ask about changes to Health & Safety Plan, exceedances at perimeter, and dust/odor issues.

WASTE HAULING:

(\*If any box(s) below are checked "Yes", list the deviation under the "Items for Concern" section of this report).

Table with 4 columns: Question, \*Yes ( ), No ( ), NA (X). Rows ask about vehicles without proper D.O.T. numbers and vehicles not tarped.

Materials Removed From Site:
Disposal Facility: 110 Sand Company
Total Loads (on this date): 0
Total Loads (to date): 7
Total Estimated Daily Weight (tons): NA
Total Approximate\* Weight (tons): 140

\*Actual (total weight) adjusted periodically based on weight tickets submitted by the disposal facilities.



# DAILY OBSERVATION REPORT

Report No.: 76

EA Project File:

1447429

Date: April 20, 2012

## Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Drilling (Layne) and Les Pennington (Wasatch) on-site.
- Prior to the start of work, AECOM conducted health and safety meeting and discussed overall goals for day.
- Layne demobilized drill rig, support truck, and associated equipment/materials off-site. DDC-09 man-way was temporarily sealed with timber and asphalt. Permanent DDC vault man-way covers will be installed next week (23–27 April 2012).
- Layne began developing DDC-05 recirculation well using a surge block and pump. The two well screens were individually surged and pumped until the turbidity stabilized. The well was packed off using an inflatable packer to isolate the two screened intervals during development. Layne developed the well for 4 hours. Over that duration (240 minutes) the surge block was run continually and the pump was run 20% of the time, over equally distributed intervals. Well development water was pumped to a fractionation tank for settling. A total of 17,280 gallons were pumped from DDC-05. AECOM sampled the development water throughout the 4-hour period to determine when the screens were completely developed. Development water will be returned to the well once settling occurs. DDC-05 recirculation well was developed in accordance with the Contract Document Section – 02686 Re-Circulation Wells and AECOMs Remedial Action Work Plan Section 2.3.1 – Installation of DDC Wells.
- No concerns/complaints from residences were documented.
- Off-site at 10:00.

## VISITORS TO SITE:

| NAME | Representing | Entered Exclusion/CRZ Zone |        |
|------|--------------|----------------------------|--------|
| None |              | Yes ( )                    | No ( ) |

## PROJECT SCHEDULE:

- Develop DDC wells (19 April – 07 May 2012).
- Install permanent DDC vault man-way covers (23 – 27 April 2012)
- DDC well head assembly (30 April – 11 May 2012).

## ISSUES PENDING:

- None

## ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 20 April 2012



Report No.: 76

EA Project File: 1447429

Date: April 20, 2012

Photographs



Layne developing DDC-05 recirculation well, looking north.



View of temporary asphalt patch at DDC-09, looking northeast.