

DAILY OBSERVATION REPORT

Report No.: 21 EA Project File: 1447429 Date: January 23, 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 Wagoner

Air Monitoring: AECOM

Health & Safety: AECOM

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

Weather Conditions

<i>General Description</i>	Overcast/Rain	am	Overcast	Pm
<i>Temperature</i>	41	am	48	Pm
<i>Wind Direction</i>	Calm	am	10-12 mph W	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 ()

Summary of Events:

- Onsite at 10:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling already onsite.
- 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 near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. 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 placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne began drilling DDC-06 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual rotary/air rotary techniques. Local Fire Marshall authorized fire hydrant access. Water for decontamination was obtained from hydrant located near southwest corner of SCWA property. Layne advanced 24-in. diameter borehole to 21 ft below ground surface (bgs). 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 separated through a centrifuge at the surface and containerized. Drill cuttings were contained in a poly lined roll-off and drill water was directed to the weir tank for settling. All drill cuttings were logged by Wasatch. All drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.
- Tomorrow (24 January 2012), Layne will further advance borehole DDC-06 and Posillico will begin saw-cutting asphalt along trench line (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A). Offsite at 16:15.

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Date: January 23, 2012

VISITORS TO SITE:

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

PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Begin trenching and underground pipe installation (26 January 2012).

ISSUES PENDING:

- None

ITEMS OF CONCERN:

- Joe Pokorny (SCWA) has requested shrub plantings around the permanent treatment system trailers located on SCWA well field property.

Site Representative:

Robert Peterson

Date: 23 January 2012



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Date: January 23, 2012

Photographs



View of drill string and outer casing at DDC-06, looking north.



View of drill rig and underlying poly, looking southwest.

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View of drill cutting discharge pipe to roll-off container.



Outlet of drill cutting discharge pipe. Note: roll-off container lined with poly.

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Date: January 23, 2012



Downwind air monitoring station.

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Report No.: 22 EA Project File: 1447429 Date: January 24, 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 Wagoner
Air Monitoring: AECOM
Health & Safety: AECOM

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

Weather Conditions

<i>General Description</i>	Sunny	am	Sunny	Pm
<i>Temperature</i>	40	am	46	Pm
<i>Wind Direction</i>	5-10 mph W	am	10-15 mph W	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 ()

Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) already onsite.
- 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 near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. 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 placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne continued drilling DDC-06 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual rotary/air rotary techniques. Layne advanced 24-in. diameter borehole to 32 ft below ground surface (bgs). Drilling progress has slowed due to tightness of formation. Layne added water to borehole to act as lubricant, which increased efficiency. All drill cuttings and formation water generated during drilling were returned to the surface within the annulus between the drill string and outer casing. Cuttings and formation water were separated through a centrifuge at the surface and containerized. Drill cuttings were contained in a poly lined roll-off and drill water was directed to the weir tank for settling. All drill cuttings (fine-medium sands) were logged by Wasatch. All well logs will be submitted to EA for review. All drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.

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- Tomorrow, Layne will further advance borehole DDC-06. Posillico will begin saw-cutting asphalt along trench line (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) on Thursday, 26 January 2012. Offsite at 16:30.

VISITORS TO SITE:

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

PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Begin trenching and underground pipe installation (26 January 2012).

ISSUES PENDING:

- None

ITEMS OF CONCERN:

- Joe Pokorny (SCWA) has requested shrub plantings around the permanent treatment system trailers located on SCWA well field property.

Site Representative:

Robert Peterson

Date: 24 January 2012



Report No.: 22

EA Project File: 1447429

Date: January 24, 2012

Photographs



Layne assembling additional 24-in. diameter outer casing and drill string, looking north.



Layne drilling DDC-06.

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Date: January 24, 2012



View of Layne drilling DDC-06. Note poly along fence to left.

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Report No.: 23 EA Project File: 1447429 Date: January 25, 2012

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Site No. 1-52-140

Contractor PM: AECOM – Walter Howard

NYSDEC PM: Jeffrey Dyber

Construction Manager: AECOM - Kent Wagoner

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	40	am	45	Pm
Wind Direction	10-12 mph W	am	10-12 mph W	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 ()

Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) already onsite.
- 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 near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. 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 placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne continued drilling DDC-06 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual rotary/air rotary techniques. Layne advanced 24-in. diameter borehole to 55 ft below ground surface (bgs). Layne continued to add water to the borehole to act as a lubricant, which increased efficiency. 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 was pumped from the roll-off and directed to the weir tank for settling or added to the borehole for drilling. All drill cuttings (fine-medium sands) were logged by Wasatch. Drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.
- Tomorrow (26 January 2012), Layne will further advance borehole DDC-06 and Posillico will begin saw-cutting asphalt along trench line (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A). Offsite at 17:30.

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Report No.: 23

EA Project File: 1447429

Date: January 25, 2012

VISITORS TO SITE:

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

PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Begin trenching and underground pipe installation (26 January 2012).

ISSUES PENDING:

- None

ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 25 January 2012



Report No.: 23

EA Project File: 1447429

Date: January 25, 2012

Photographs



Layne drilling DDC-06, looking north.



View of drill cutting discharge pipe in roll-off.

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Date: January 25, 2012



View of temporary access point at southwest corner of SCWA property fenceline.



View of temporary access point on western SCWA property fenceline.

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Site No. 1-52-140

Contractor PM: AECOM – Walter Howard

NYSDEC PM: Jeffrey Dyber

Construction Manager: AECOM - Kent Wagoner

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	Overcast/Rain	am	Overcast/Rain	Pm
Temperature	37	am	44	Pm
Wind Direction	10-15 mph W	am	10-15 mph W	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 ()

Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- 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 near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. 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 placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Overnight 15 ft of sand infiltrated through the bottom of DDC-06 outer casing and buried the drill head. The drill rig lacked the power to remove the drill head. Layne directed high-velocity air and water down the borehole and ejected 8 ft of material through the annulus. At this point, Layne was able to remove the drill head and drill string components from the borehole. The remaining 7 ft of material was removed via 6-in. diameter steel bailer. All sand and water was discharged to a poly lined roll-off. Layne pumped water from the roll-off to the weir tank for settling. Once borehole was cleared to bottom of casing (55 ft below ground surface), Layne re-assembled drill string and welded additional casing. No drilling was conducted today. DDC-06 drilling activities will resume tomorrow (27 January 2012).
- AECOM requested that trench line mark-outs transecting Albany Ave be relocated to the south approximately 30 ft (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A). AECOM and Posillico discovered that the original trench line location intersects a storm and water line. If piping were installed at original location a large

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section would lack required pitch/drop. This section of piping may accumulate water, resulting in decreased air flow. AECOMs proposed location would avoid the above stated utilities and maintain required pitch in piping. AECOM will send a revised figure to EA and NYSDEC for review.

- Posillico saw-cut trench line from DDC-10 to eastern edge of Albany Ave. Traffic controls were installed prior to saw-cutting activities. Refer to Posillico's Traffic Control Plan, Permit # 60135649.
- Offsite at 15:30.

VISITORS TO SITE:

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

PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Begin trenching and underground pipe installation (30 January 2012).

ISSUES PENDING:

- None

ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 26 January 2012



Report No.: 24

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Date: January 26, 2012

Photographs



Layne removing material from outer casing via 6-in. steel bailer.



Posillico saw-cutting trench line along Benjoe Dr., looking northwest.

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Report No.: 25 EA Project File: 1447429 Date: January 27, 2012

EA Engineering, P.C.

6712 Brooklawn Parkway, Suite 104
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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 Wagoner
Air Monitoring: AECOM
Health & Safety: AECOM

Weather Conditions

General Description	Overcast/Rain	am	Overcast/Rain	Pm
Temperature	47	am	56	Pm
Wind Direction	10-30 mph W	am	10-30 mph W	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 ()

Summary of Events:

- Onsite at 07:00, spoke with Kent Wagoner and Sam Rowe (AECOM) regarding planned work for the day. Layne Christensen Drilling (Layne) and Posillico Construction (Posillico) already onsite.
- 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 near northwest corner of Suffolk County Water Authority (SCWA) property and downwind station along southern fence line of SCWA property. 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 placed poly under drill rig to prevent contamination of ground surface from drill rig fluids. Poly was also placed along SCWA western fence line to act as a barrier to the sidewalk along Albany Ave. Exclusion zone around drill rig was distinguished by the placement of caution tape and traffic barrels.
- Layne continued drilling DDC-06 (Refer to AECOMs Revised RAWP Figure 1, Submittal No. 02686-002A) using dual rotary/air rotary techniques. Layne advanced 24-in. diameter borehole to 60 ft below ground surface (bgs). Layne continued to add water to the borehole to act as a lubricant, which increased efficiency. 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 was pumped from the roll-off and directed to the weir tank for settling or added to the borehole for drilling. All drill cuttings (fine-medium sands) were logged by Wasatch. Drilling activities were performed in accordance with Section 02686 – Re-Circulation Wells of the Contract Documents.
- Posillico pre-fabricated high-density polyethylene (HDPE) joints and fittings on SCWA property. Offsite at 12:00.

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Report No.: 25

EA Project File: 1447429

Date: January 27, 2012

VISITORS TO SITE:

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

PROJECT SCHEDULE:

- Install system transformer on SCWA property (23 January – 03 February 2012).
- DDC well installation (16 January – 29 February 2012).
- Begin trenching and underground pipe installation (30 January 2012).

ISSUES PENDING:

- None

ITEMS OF CONCERN:

- None

Site Representative:

Robert Peterson

Date: 27 January 2012

