

Ms. Alicia Barraza  
Project Manager  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway, 12th Floor  
Albany, NY 12233-7016

Subject:  
Annual Certification Report  
Henry Johnson Boulevard Properties  
City of Albany, New York  
Project No. E401049

Dear Ms. Barraza:

On behalf of the City of Albany Community Development Agency, Arcadis of New York, Inc. (Arcadis) is pleased to submit the annual certification report for the above-referenced site to the New York State Department of Environmental Conservation (NYSDEC). In accordance with the approved Site Management Plan (SMP), semi-annual permanganate distribution monitoring was conducted in June and October 2017, permanganate cylinders were replaced and site monitoring wells were sampled in June 2017, and the site was inspected in October 2017. This report summarizes the results of permanganate monitoring, groundwater samples collected to-date, site conditions, maintenance activities, and the status and effectiveness of institutional controls.

The finished ground surface of the site is either crushed stone or vegetated with grass, trees, or shrubs. The City of Albany Department of General Services (DGS) maintains the surface vegetation at the site. During the June and October 2017 permanganate distribution monitoring events, the site was inspected to verify that the approved remedy has been maintained; and that the conditions at the site are protective of public health and the environment. During the previous year, there were no known changes to the surface cover and no excavations that disturbed subsurface materials. The site inspection form and site photographs are provided in Attachment 1.

The environmental easement for the site was executed by the NYSDEC on December 29, 2015, and filed with the Albany County Clerk on February 18, 2016. The environmental easement requires that (1) Institutional and Engineering Controls

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ENVIRONMENT

Date:  
January 16, 2018

Contact:  
Stefan Bagnato

Phone:  
518-250-7300

Email:  
[Stefan.Bagnato@arcadis.com](mailto:Stefan.Bagnato@arcadis.com)

Our ref:  
04279009.0000

Imagine the result

be maintained and monitored; (2) future exposure to remaining contamination be prevented by controlling disturbances of the subsurface contamination; and, (3) the use and development of the site be limited to commercial and industrial uses only, as permitted by zoning. The Certificate of Completion for the site was executed by the NYSDEC on March 30, 2016.

A summary of water levels measured and permanganate presence in each monitoring well is provided in Table 1, which has been previously submitted to NYSDEC. Sustained release potassium permanganate cylinders originally placed in monitoring wells IW-1, MW-10R, and MW-22R in May 2015 to address residual chlorinated volatile organic compounds (CVOCs) groundwater impacts at the site were replaced in June 2017. Groundwater samples were collected from site monitoring wells in June 2017, the results of which are summarized in Figure 1, which has been previously submitted to NYSDEC. As shown in Figure 1, residual CVOc impacts in site groundwater remain at the site. Per the SMP, the next groundwater sampling event will be prior to November 2020. As previously discussed with the NYSDEC, ACDA may choose to sample more frequently.

Review of the permanganate distribution data and groundwater sampling analytical results from previous years indicates that the concentrations of CVOCs in the site monitoring well network appear to be stable or decreasing with time. Collectively, the results from the 2017 monitoring and inspection indicate that the remedy for the site remains effective, down-gradient receptors have not been adversely affected, and institutional controls for the site are in place.

If you have any questions concerning this matter, please call me at (518) 250-7334.

Sincerely,

Arcadis of New York, Inc.



Stefan Bagnato, P.G.  
Senior Geologist

Copies:

Luis Perez, ACDA (w/enclosures)

Mike Komoroske, NYSDEC (w/enclosures)



**Table 1**  
**Summary of Post-Injection Monitoring**  
**Henry Johnson Boulevard Properties**  
**Albany, New York**

| Date                         | Depth to Water (feet BTOC) |                      |        |        |        |       |       | Notes |
|------------------------------|----------------------------|----------------------|--------|--------|--------|-------|-------|-------|
|                              | IW-1                       | MW-4R                | MW-11R | MW-22R | MW-10R | MW-13 | MW-14 |       |
| 11/16/11 8:00 AM<br>Baseline | 6.51                       | 5.17                 | 6.80   | 7.17   | 6.45   | -     | -     |       |
| 11/16/11 2:00 PM             | -<br>(> 100 mg/L)          | 0.82<br>(> 100 mg/L) | 6.71   | 7.20   | 6.3    | 8.31  | 9.55  |       |
| 11/17/11 3:00 PM             | 5.53<br>(> 100 mg/L)       | 4.16<br>(> 100 mg/L) | 6.76   | 7.01   | 5.83   | 8.45  | 9.57  |       |
| 11/22/11 11:00 AM            | 5.89<br>(> 100 mg/L)       | 4.51<br>(> 100 mg/L) | 6.77   | 7.25   | 5.97   | 8.74  | 9.66  |       |
| 11/30/11 2:30 PM             | 5.99<br>(> 100 mg/L)       | 4.62<br>(> 100 mg/L) | 6.79   | 7.04   | 5.77   | 8.20  | 9.51  |       |
| 12/8/11 3:00 PM              | 6.01<br>(> 100 mg/L)       | 4.65<br>(> 100 mg/L) | 6.79   | 7.15   | 5.72   | 8.10  | 9.59  |       |
| 12/16/11 8:00 AM             | 6.06<br>(> 100 mg/L)       | 4.70<br>(> 100 mg/L) | 6.76   | 7.06   | 5.87   | 8.49  | 9.55  |       |
| 1/4/12 3:00 PM               | 5.90<br>(> 100 mg/L)       | 4.55<br>(> 100 mg/L) | 6.79   | 7.00   | 5.72   | 8.49  | 9.68  |       |
| 1/19/12 2:30 PM              | 6.06<br>(> 100 mg/L)       | 4.69<br>(> 100 mg/L) | 6.78   | 7.27   | 6.24   | 8.61  | 9.80  |       |
| 2/1/12 8:00 AM               | 5.98<br>(> 100 mg/L)       | 4.61<br>(> 100 mg/L) | 6.80   | 7.24   | 6.03   | 8.44  | 9.53  |       |
| 2/15/12 3:00 PM              | 6.26<br>(near 100 mg/L)    | 4.88<br>(> 100 mg/L) | 6.80   | 7.46   | 6.14   | 8.68  | 9.87  |       |
| 3/2/12 8:00 AM               | 6.43<br>(~50- >100 mg/L)   | 5.08<br>(> 100 mg/L) | 6.80   | 7.23   | 6.02   | 8.61  | 9.79  |       |
| 3/15/12 8:00 AM              | 5.92<br>(near 100 mg/L)    | 4.53<br>(> 100 mg/L) | 6.80   | 6.26   | 5.99   | 8.53  | 9.85  |       |
| 3/29/12 11:00 AM             | 6.08<br>(near 100 mg/L)    | 4.72<br>(> 100 mg/L) | 6.82   | 6.51   | 6.25   | 8.66  | 9.80  |       |
| 4/17/12 3:00 PM              | 6.48<br>(> 100 mg/L)       | 5.11<br>(> 100 mg/L) | 6.88   | 6.94   | 6.70   | 8.84  | 10.06 |       |
| 5/17/12 8:00 AM              | 5.67<br>(> 100 mg/L)       | 4.31<br>(> 100 mg/L) | 6.72   | 5.69   | 5.42   | 8.31  | 9.62  |       |
| 7/3/12 2:30 PM               | 6.87<br>(> 100 mg/L)       | 5.49<br>(> 100 mg/L) | 7.12   | 7.65   | 7.38   | 9.22  | 10.06 |       |
| 12/3/12 8:00 AM              | 8.18<br>(> 100 mg/L)       | 6.81<br>(> 100 mg/L) | 7.06   | 9.42   | 7.49   | 9.50  | 10.03 |       |
| 1/9/13 2:00 PM               | 6.68<br>(> 100 mg/L)       | 5.35<br>(> 100 mg/L) | 6.83   | 7.24   | 6.93   | NM    | NM    |       |
| 2/13/13 8:30 AM              | 6.39<br>(> 100 mg/L)       | 5.01<br>(> 100 mg/L) | 6.84   | 6.88   | 6.57   | 8.14  | 9.63  |       |

**Table 1**  
**Summary of Post-Injection Monitoring**  
**Henry Johnson Boulevard Properties**  
**Albany, New York**

| Date             | Depth to Water (feet BTOC) |                      |        |                      |                      |       |       | Notes  |
|------------------|----------------------------|----------------------|--------|----------------------|----------------------|-------|-------|--|
|                  | IW-1                       | MW-4R                | MW-11R | MW-22R               | MW-10R               | MW-13 | MW-14 |  |
| 4/3/13 11:00 AM  | 6.27<br>(> 100 mg/L)       | 4.90<br>(> 100 mg/L) | 6.81   | 6.15                 | 5.88                 | 8.49  | 9.76  |  |
| 6/11/13 1:00 PM  | 5.48<br>(> 100 mg/L)       | 4.09<br>(> 100 mg/L) | 6.73   | 4.89                 | 4.45                 | 8.25  | 9.59  |  |
| 8/27/13 8:00 AM  | 7.70<br>(> 100 mg/L)       | 6.63<br>(> 100 mg/L) | 12.29  | 9.66                 | 7.66                 | 9.36  | 9.55  |  |
| 12/4/13 2:30 PM  | 7.24<br>(> 100 mg/L)       | 5.90<br>(> 100 mg/L) | 6.97   | 7.47                 | 7.18                 | 9.13  | 9.93  |  |
| 2/11/14 7:30 AM  | 7.09<br>(> 100 mg/L)       | 5.71<br>(> 100 mg/L) | 7.06   | 8.16                 | 7.86                 | 8.86  | 9.90  |  |
| 6/25/14 8:00 AM  | 6.40<br>(~ 10 mg/L)        | 5.03<br>(~ 75 mg/L)  | 6.97   | 6.65                 | 6.32                 | 8.88  | 9.63  |  |
| 8/22/14 8:00 AM  | 7.28                       | 5.90<br>(~ 75 mg/L)  | 7.31   | 7.93                 | 7.55                 | 9.20  | 9.54  |  |
| 12/22/14 8:00 AM | 5.98                       | 4.62<br>(~50 mg/L)   | 6.88   | 5.33                 | 5.78                 | 8.45  | 9.32  |  |
| 3/5/15 11:00 AM  | 7.73                       | 6.36<br>(~50 mg/L)   | 7.90   | 9.96                 | 9.75                 | 8.83  | 9.92  |  |
| 6/11/15 8:30 AM  | 5.84                       | 4.47                 | 6.93   | 5.23                 | 4.72                 | 8.51  | 9.56  |  |
| 7/22/15 9:00 AM  | 6.82<br>(~50 mg/L)         | 5.44                 | 7.10   | >100 mg/L            | 6.65<br>(>100 mg/L)  | 8.48  | 9.40  | Water level was below MnO4 cylinders at MW 22R. DTW > 6.78'. |
| 11/5/15 8:45 AM  | 6.16<br>(~25 mg/L)         | 4.76                 | 6.96   | 6.99<br>(~25 mg/L)   | 6.50<br>(~50 mg/L)   | 8.56  | 9.39  |  |
| 6/10/16 8:30 AM  | 6.88                       | 5.50                 | 7.14   | 7.00<br>(~1.0 mg/L)  | 6.59<br>(~0.5 mg/L)  | 8.36  | 9.48  |  |
| 10/6/16 9:00 AM  | 8.25<br>(~100 mg/L)        | 6.90                 | 10.79  | 6.79<br>(~100 mg/L)  | 6.71<br>(>100 mg/L)  | 8.98  | 9.61  |  |
| 6/13/17 8:30 AM  | 6.29<br>(>100 mg/L)        | 4.92                 | 7.09   | 6.50<br>(~100 mg/L)  | 5.69<br>(>100 mg/L)  | 8.81  | 9.63  |  |
| 10/17/17 8:30 AM | 8.36<br>(>100 mg/L)        | 7.01                 | 10.559 | 11.18<br>(~100 mg/L) | 10.02<br>(>100 mg/L) | 9.25  | 9.73  |  |

Notes:

BTOC - below top of casing.

NM - Not measured.

- Permanganate present in well (estimated concentration given).

**SITE INSPECTION FORM**

Henry Johnson Boulevard Properties  
Albany New York

Date: 6/13/17

Weather: Partly Cloudy 83°F

Inspector: ES / AT

- |   | <u>No</u> | <u>Yes</u>  |
|---|-----------|-------------|
| 1) Is there a change in site/property use since last inspection?                  | <u>✓</u>  | <u>    </u> |
| 2) Is there a change in site/property vegetation since last inspection?           | <u>✓</u>  | <u>    </u> |
| 3) Is there evidence of excavation since last inspection?                         | <u>✓</u>  | <u>    </u> |
| 4) Is there any damage to monitoring wells or vapor points since last inspection? | <u>✓</u>  | <u>    </u> |

Comments: *(Required for each Yes answer)*

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Additional Comments/Concerns/Recommendations/Sketches:

Signed: 

Date: 6/13/17

**SITE INSPECTION FORM**  
Henry Johnson Boulevard Properties  
Albany New York

Date: 10/17/17

Weather: Sunny 36°F

Inspector: ES

- |   | <u>No</u> | <u>Yes</u>  |
|---|-----------|-------------|
| 1) Is there a change in site/property use since last inspection?                  | <u>X</u>  | <u>    </u> |
| 2) Is there a change in site/property vegetation since last inspection?           | <u>X</u>  | <u>    </u> |
| 3) Is there evidence of excavation since last inspection?                         | <u>X</u>  | <u>    </u> |
| 4) Is there any damage to monitoring wells or vapor points since last inspection? | <u>X</u>  | <u>    </u> |

Comments: *(Required for each Yes answer)*

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Additional Comments/Concerns/Recommendations/Sketches:

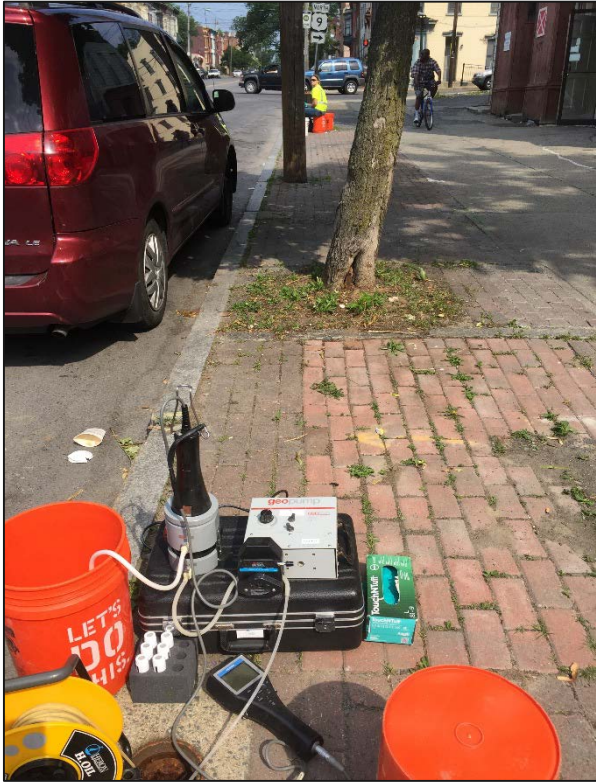
Signed: SKK

Date: 10/17/17



## Project Photographs

HENRY JOHNSON BOULEVARD ERP  
ALBANY COMMUNITY DEVELOPMENT AGENCY



**Photo: 1**

**Date:**  
6/13/2017

**Description:**  
Groundwater sampling at  
MW-13

**Location:**  
Albany, NY



**Photo: 2**

**Date:**  
6/13/2017

**Description:**  
Northeastward view of the  
site

**Location:**  
Albany, NY



## Project Photographs

HENRY JOHNSON BOULEVARD ERP  
ALBANY COMMUNITY DEVELOPMENT AGENCY



**Photo: 3**

**Date:**

6/13/2017

**Description:**

Placement of new  
permanganate cylinder

**Location:**

Albany, NY

**Photo: 4**

**Date:**

6/13/2017

**Description:**

Placement of new  
permanganate cylinder

**Location:**

Albany, NY





## Project Photographs

HENRY JOHNSON BOULEVARD ERP  
ALBANY COMMUNITY DEVELOPMENT AGENCY



**Photo: 5**

**Date:**

6/13/2017

**Description:**

Placement of new  
permanganate cylinder

**Location:**

Albany, NY

**Photo: 6**

**Date:**

10/17/2017

**Description:**

Southwestward view of site

**Location:**

Albany, NY

