New Jersey Department of Environmental Protection
Site Remediation and Waste Management Program

CLASSIFICATION EXCEPTION AREA / WELL RESTRICTION AREA (CEA/WRA) FACT SHEET FORM

Date Stamp
(For Department use only)

SECTION A. SITE INFORMATION

Site Name: Lawrence Fuel LLC, AKA 1696 Rt 130 LLC AKA North Brunswick Gulf

Program Interest (PI) Number(s): 010180

Case Tracking Number(s) for this submission: 01-08-30-1546-07, 01-08-30-1549-55, 19-05-08-1010-08

This form must be attached to the Cover / Certification Form if not submitted through the Remedial Phase Report Online Service

1. Indicate the reason for submission of this form *(see instructions)*:

☒ New CEA ☐ Revise CEA ☐ Reestablish CEA ☐ Existing CEA with no changes
☐ CEA for historic fill ☐ CEA for Historically Applied Pesticides (HAP) ☐ CEA lift/removal

If you are submitting this form for an existing CEA provide the CEA Subject Item ID: _____

2. Indicate the type of ground water Remedial Action (RA):

☐ Natural ☐ Active ☒ Final RA not yet selected

3. Is this form being submitted with a Remedial Action Permit (RAP) Form (for Soil or Ground Water)?.... ☐ Yes ☒ No

SECTION B. CEA COMPONENT AND VAPOR INTRUSION INFORMATION

Name of document that includes the CEA Fate and Transport Description: Remedial Investigation Report

Date of document: 09/30/2019

1. Ground Water Classification: What is the ground water classification within the CEA as per N.J.A.C. 7:9C?

(Check all that apply)

☐ Class I-A
☐ Class I-PL Pinelands Protection Area
☐ Class I-PL Pinelands Preservation Area
☒ Class II-A
☐ Class III-A
☐ Class III-B

2. Contaminant Data: This CEA/WRA applies only to the contaminants listed below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the Ground Water Quality Standards (GWQS), N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form instructions before entering data into the below table.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	GWSL(4)
Benzene	1,660	1		20
Ethylbenzene	2,800	700		700
Toluene	2,510	600		330,000
Xylenes	10,800	1,000		8,600
MTBE	83.6	70		580

Notes:
(1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL) available at http://www.nj.gov/dep/srp/guidance/vaporintrusion/

☒ Check if attaching the form Addendum to list additional contaminants and associated information.

3. CEA Boundaries and VI Pathway Status: Year of tax map used: 1998

Are there volatile contaminants in the CEA? ☒ Yes ☐ No

Is there LNAPL currently found in the CEA? ☐ Yes ☒ No

For CEA revisions only:

☐ Check if CEA Boundary has changed (*See instructions*)

☐ Check if Block and Lot numbers have changed (*See instructions*)

List the block(s) and lot(s) included in the areal extent of the CEA and check the appropriate boxes:

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
282	1	☐	☒	☐
282	2	☒	☒	☐
None	Rt 130	☒	☒	☐
None	Washington Place	☒	☒	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

☐ Check if attaching an Addendum to list additional Blocks/Lots and associated information. *(see instructions)*

*Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and the status is indeterminate.

Direction of ground water flow: south & SE (*If multiple water bearing zones exist within the CEA and/or there is no predominant flow direction, see instructions.*)

Vertical depth of CEA: 30 (ft bgs) **and** 80 (msl).

Horizontal extent of CEA: 69,069 Indicate units: ☐ acres or ☒ square feet

Name(s) of the affected Geologic Formation(s)/Unit(s) (*see instructions if multiple formations/units affected)*:

Pennsauken Formation

Narrative description of proposed CEA boundaries:

The plume is approximately 253 ft in a north to south direction and 273 feet in an east to west direction and extends approx. 80 feet beneath Rt 130, approx. 24 ft beneath Washington Place & approx. 45 feet onto an adjacent property at Block 282 Lot 2. The plume is stable and in some locations shrinking. The plume was horizontally delineated based on actual analytical data from 20 monitoring wells. THe vertical extent is projected at 30 feet below grade based on professional judgement. A clay layer was detected at a depth of 20 feet below grade which should limit the vertical extent. Impacts are projected to remain above standards for another 37 years.

4. Projected Term of CEA: *(Based on modeling/calculations in the fate and transport description)*

Proposed Duration in Years: 37 Anticipated Expiration Date: 05/21/2056

or ☐ Indeterminate (*Review instructions before selecting* "Indeterminate" *for the CEA duration.*)

5. ATTACH AND/OR SUBMIT THE FOLLOWING: (*see instructions for additional information/requirements*)

Exhibit A: Site Location Maps – Based on USGS Quadrangle Map;

Exhibit B: CEA Map and Cross Section Figure – See N.J.A.C 7:26C- 7.3(c)1 and 2 and instructions regarding what is required to be included on the map and the cross-section figure.

Exhibit C: GIS Deliverables – CEA Boundary Extent Map. The CEA Boundary Extent Map shall be submitted via email to srpgis_cea@dep.nj.gov. (*See the instructions for detailed GIS deliverable requirements.)*

Identify format of CEA Boundary Extent Map being submitted: ..... ☒ Shape File ☐ CAD File ☐ N/A

If there is a CEA map already on NJ-GeoWeb, does it need to be revised? ..... ☐ Yes ☐ No ☒ N/A

SECTION C. CURRENT GROUND WATER USE DOCUMENTATION

1. Indicate the year of the most recent well search completed per N.J.A.C. 7:26E-1.14: 2019

2. If this Fact Sheet form is for a revised CEA or an existing CEA with no changes, have new wells been installed since the CEA was established? ☐ Yes ☐ No ☒ N/A

3. Are there any pumping wells (e.g., potable, industrial, irrigation or recovery wells) within the foot print of the CEA? ☐ Yes ☒ No

   If "Yes" list/attach list of the type and status of any pumping well(s) within CEA:

SECTION D. WELL RESTRICTION INFORMATION

Certain well restrictions relevant to potable ground water use, such as "Double Case Wells", "Sample Potable Wells", and "Evaluate Production Wells", are consistently set within the boundaries of all CEAs established by the NJDEP in Class I and II-A areas (*see instructions*).

1. Are there any other site-specific well restrictions relevant to potable ground water use that should be set within or near the boundaries of the proposed CEA? ☐ Yes ☒ No

   If "Yes", describe below any such site-specific well restrictions proposed for this CEA:

SECTION E. PUBLIC NOTIFICATION REQUIREMENTS

1. Indicate which of the following entities have been notified pursuant to N.J.A.C. 7:26C-7.3(d) and the dates each notification was sent. (*check all that apply*)

   ☒ Municipal and county clerk(s) ..... Dated mailed: 09/16/2019

   ☒ Local, county or regional health department(s) ..... Dated mailed: 09/16/2019

   ☐ Designated County Environmental Health Act agency (if applicable) ..... Dated mailed: 09/16/2019

   ☒ County Planning Board ..... Dated mailed: 09/16/2019

   ☐ Pinelands Commission (if applicable) ..... Dated mailed: 09/16/2019

   ☒ Owners of real property overlying CEA foot print ..... Dated mailed: 09/16/2019

2. **List of Names and Addresses** – List below and/or in an attachment, the names/addresses of all persons notified pursuant to N.J.A.C. 7:26C-7.3(d) based on the proposed CEA boundaries. If the site property owner differs from the person responsible for conducting the remediation, check here ☐ and enter the site owner's name and address first in the table below. *See instructions for more information regarding the address list.*

Entity or Owner Name	**Notification Address Used** If owner address differs from property address overlying CEA, add an " * " after the address.	**Blocks/Lots overlying CEA owned by this person** Block	Lot(s)
Walter Lapp	555 Georges Road Daayton, NJ 08810 *	B 282	L 1
Ruth Frey	582 S. Waterloo Road Devon, Pa. 19333 *	B 282	L 1
Thomas Csepes	359 Washington Place North Brunswick NJ 08902	B 282	L 2
Middlesex County Health Dept.- Lester Jones	35 Kennedy Boulevard East Brunswick, NJ 08816		
Middlesex County Office of Planning - Mirah Becker	5th Floor 75 Bayard St. New Brunswick, NJ 08901		
Middlesex County Clerk - Elaine Flynn	75 Bayard St. New Brunswick, NJ 08901		
North Brunswick Clerk - Lissa Russo	North Brunswick Municipal Bldg. 710 Herman Rd North Brunswick, NJ 08902		
North Brunswick Health Officer - Nick DeStefano	North Brunswick Municipal Bldg. 710 Herman RD North Brunswick, NJ 08902		
North Brunswick Dept. of Public Works - Eric Chaszar	45 Quarry Lane North Brunswick, NJ 08902		
NJ Dept. of Transporation - Dianne Scaccetti	Davis Goldberg Complex 1035 Parkway Ave. Trenton, NJ 08625		
Petroleum Supply Corp: Ted Cohen	3701 Bedford Ave. Brooklyn, NY 11229		
Brunswick Auto Craft	1696 Georges Rd North Brunswick, NJ 08902		
Hare Krishna Fuel, Inc.	1696 Georges Rd North Brunswick, NJ 08902		

ADDENDUM
Classification Exception Area / Well Restriction Area
Fact Sheet Form

Section B. CEA Component and Vapor Intrusion Information

1. **Contaminant Data** (continued)**:** This CEA/WRA applies only to the contaminants listed on page 1 and in the table below with concentrations above, or assumed to be above, numeric values established for the applicable classification area via the GWQS, N.J.A.C. 7:9C. Except for historic fill CEAs based on assumed ground water contamination, list below the maximum contaminant value for all ground water data that could be representative of **current** conditions for any well or sampling point used to establish the CEA. See form Instructions before entering data into the tables below.

Contaminant	Concentration (1)	GWQS (2)	SWQS(3)	VI GWSL(4)
TBA	241	100		
Tetrachloroethene (PCE)	1.8	1		31
1,2,4 Trimethylbenzene	2,450	100		
VOC TICs	8,140	500		
Bis(2-ethylhexyl)phthalate	5	3		
1 and 2-Methylnaphthalene	100/92.3 l	5/30		
Naphthalene	433	300		300
SVOC TICs	3,898	500		
Aluminum & Arsenic: Naturally occurring	7810/17.4	200/3		
Beryllium: Naturally ocurring	2.1	1		
Iron & Sodium: Naturally occurring	72,800/380,000	300/50,000		
Manganese : Naturally occurring	1,530	50		
Lead: Naturally occuring	17.5	5		

Notes: (1) Maximum concentration in Micrograms Per Liter
(2) New Jersey Ground Water Quality Standards, N.J.A.C. 7:9C-1.7 and 1.9(c)
(3) Surface Water Quality Standards, N.J.A.C. 7:9B - Applicable only where contaminants in the CEA may discharge to a surface water body.
(4) Current NJDEP Vapor Intrusion (VI) Ground Water Screening Levels (GWSL)

2. **CEA Boundaries and VI Pathway Status** (continued)**:** List additional parcels included in the CEA. Attach additional Addendum sheets if necessary to list all blocks and lots within the CEA.

For CEA revisions, check here if block and lot numbers have changed: ☐

Block	Lot(s)	Check if off-site	Check if VI pathway was evaluated*	Check if VI pathway status is indeterminate*
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

* Follow instructions for parcels where the vapor intrusion (VI) pathway was evaluated and status is indeterminate.

Information required to be submitted with CEA per ARRCS 7:26C

1. Copies of required maps are attached as **Figure 1, 2, 3, 4 and 5** and include site location map, AOC map, CEA Boundary Extent map and two cross sections, respectively.

2. How horizontal and vertical extent predictions were performed.

Since the source of the most mobile compounds were removed 17 years ago and groundwater analytical data from monitoring wells indicates the plume is stable and in some locals shrinking, extent predictions were made using professional judgment that concluded:

- the plume will only decrease in size with time.
- The horizontal extent is equal to the current extent of the plume (253 ft in north to south direction and 273 ft in east to west direction).
- The vertical extent is estimated at 30 feet below grade, which is 10 feet below a clay layer detected at a depth of 20 feet below grade.

Data that supports this conclusion is highlighted below:

- Groundwater analytical data from down gradient monitoring wells MW 3 and MW 8 indicate the concentrations of benzene, MTBE and TBA have decreased to below the standard with time as highlighted below:

Contaminant	Concentration in 2009 (ug/l)	Concentration in 2019 (ug/l)
Benzene MW 3	1.7	<0.43
MTBE MW 3	2000	65.4
TBA MW 3	6300	64.3
Benzene MW 8	32	<0.43
MTBE MW 8	280	0.75 J
TBA MW 8	340	<5.8

  Groundwater analytical data from 20 monitoring wells is summarized on individual well forms that show the concentrations in most wells have decreased over time **(Table 1)**.

- Nine (9) monitoring wells have been installed along the periphery of the plume to evaluate horizontal extent and contaminant transport (MW 9 through MW 18 and MW 20). Groundwater samples from those well that were collected over time have indicated that the concentrations of benzene, MTBE and TBA in those wells were always below the GWQS, which indicates the plume is not expanding. It also indicates the plume started to shrink around 2009 when the concentrations in MW 8 (the most down gradient impacted well) began to decrease.

- Although only four sampling events were available since remedial efforts stopped in July 2003 and R-squared values were low, concentration versus time plots for all volatile organic

compounds that have had concentrations above the GWQS at one time (MW 1 through MW 8 & RW 1) do show a decreasing trend over time with the exception of the following:

- Benzene in MW 4 increased.
- BTEX, MTBE and TBA in RW 1 increased likely due to an elevated water table.

The concentration versus time series plots are attached.

- Trend analysis using the Mann Kendall Statistical Test indicates:

  The concentrations of BTEX. MTBE and TBA is either stabile or decreasing in most wells. A summary of the Mann Kendal analysis is presented below and snap shots of the Mann Kendall spreadsheets are attached.

Well ID	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
MW 1	Stabile	Non-stabile	Stabile	Stabile	Decreasing	Decreasing
MW 2	Stabile	Decreasing	Stabile	Stabile	Stabile	Decreasing
MW 3	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Non-stabile
MW 4	Non-stabile	Decreasing	Decreasing	Non-stabile	Decreasing	Decreasing
MW 5	Stabile	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW 6	Decreasing	Non-stabile	Non-stabile	Non-stabile	Non-Stabile	Decreasing
MW 7	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing
MW 8	Decreasing	Decreasing	Decreasing	Decreasing	Decreasing	Non-stabile
RW 1	Non-stabile	Non-stabile	Non-stabile	Non-stabile	Non-stabile	Stabile

- Based on slug test performed at the site in four wells the hydraulic conductivity of the subsurface aquifer ranges from 3.34 ft/day at the up gradient northeast end of the site (which is characteristic of a fine sand) to an average of 0.12 ft/day in the down gradient south west end of the site (which is characteristic of silt, clay and mixtures of sand, silt and clay). The low hydraulic conductivity of the material at the southwest end of the site has limited the horizontal migration of the contaminants. The slug test data is summarized below and printout of the slug test analysis were presented to the NJDEP in a *Preliminary Site Investigation/Remedial Action Report"* dated May 1,2002.

Rising Head Permeability Test	
Location	ft/day
MW 1	3.339
MW 2	0.0599
MW 3	0.291
MW 4	0.007704
Geometric Mean	0.1455

- Based on borings installed at the site the subsurface material at the up gradient northeastern part of the site is composed of silty clays to a depth of 12 feet underlain by fine to medium sands with thin interbedded silty and sandy clays to a depth of 20 feet, which is underlain by a plastic clay of undetermined thickness. The material from the middle of the site to the southwest is mainly a silty clay to a depth of approximately 20 feet, which is also underlain by a plastic clay. The clayey nature of the material at the southwest end of the site has limited the

horizontal migration of contaminants in the subsurface and the clay layer at a depth of 20 feet below grade will limit the vertical extent of the impacts.

- **Figure 3 in Appendix Q** shows the proposed CEA boundary. The CEA boundary is based on two rounds of groundwater data collected in 2016 and 2019 from twenty (20) monitoring wells.

- **Figures 6 in Appendix Q** is a water table gradient map showing the inferred direction of groundwater flow on 5/21/19, which indicates the main direction of groundwater flow is towards the south and southeast, which is in line with the topographic gradient.

2. How the CEA duration was estimated.

The duration was estimated by performing regression analysis on groundwater data collected over time from individual wells to develop site specific degradation rates for the contaminants of concern. Then using that data in the formulas below:

Half life in days = $t_{1/2}$ = 0.693 divided by degradation rate

Duration of CEA = $\frac{-t_{1/2}\,[\ln C/Co]}{.693}$

where :

t1/2 is the half life in days

C: final concentration = ground water quality standard

Co: Initial concentration

Based on site specific degradation rates for the most mobile contaminants of concern the duration of the plume has been calculated to be above standards for 36.5 more years (which will be approximately 48 years after the source has been removed - year 2056). The regression analysis and duration calculations are summarized below and are attached.

MW ID	Duration for benzene to reach GWQS from 5/22/19 (years)	Duration of MTBE to reach GWQS from 5/22/19 (years)	Duration of TBA to reach GWQS from 5/22/19 (years)
MW 1	36.53	Will likely reach standard in next few years	May have reached the standard
MW 2	15.13	Reached standard in last 2 samples	Will likely reach standard in next few years
MW 3	Reached standard in last 2 samples	Reached standard in last sample	Reached standard in the last sample
MW 4	Not determined because concentrations increased in last sample	Reached standard in last 2 samples	Reached standard in last 2 samples
MW 5	Reached standard in the	Never was above the	Reached standard in

	last sample	standard	last 3 samples
MW 6	9.73	Reached standard in last 2 samples	Reached standard in last 2 samples
MW 7	16.83	Reached standard in last sample	Reached standard in the last sample
MW 8	Reached standard in last 2 samples	Reached standard in last 2 samples	Reached standard in last 2 samples
RW 1	Not determined because concentrations increased in last sample	Not determined because concentrations increased in last sample	Not determined because concentrations increased in last sample

Since the longest time to reach the GWQS calculated to be at MW 1 and that duration is greater than 30 years additional remediation may be conducted at MW 1 to reduce the cleanup time.

3. That the vapor intrusion pathway was included in the fate and transport description, if applicable.

The compounds that had concentrations above the Ground Water Quality Screening Levels for Vapor Intrusion (GQSLVI) include benzene, ethylbenzene, xylenes and naphthalene. The inferred distribution of those compounds are shown on **Figures 60, 61, 63 and 71 in the RIR** (generated from the last sampling event) indicate the onsite building and convenience store located adjacent to the site are within the 30 foot trigger distance for benzene and ethylbenzene and that the onsite building is also within the 30 foot trigger distance for xylenes and naphthalene. Since the facility uses the ontaminants of concern in its operations collecting VI samples at the onsite building was not conducted. The VI pathway will need to be addressed in a deed notice to ensure public health will be protected in the future if the land use or facility operations change. To evaluate the VI pathway at the adjacent property On-Site contacted the LSRP on record for the 1674 RT 130 site (which has a PCE problem) and secured summary tables and sample location figures of sub-slab soil gas samples collected at the convenience store. That data indicated the only compounds above the standards were PCE and TCE and that the concentration of gasoline related compounds were below the sub-slab soil gas screening levels. In light of that information the LSRP for the NBG site concluded the VI pathway has been evaluated and is not a concern at the adjacent property. The sub-slab soil gas data secured from the adjacent site is presented in **Appendix J of the RIR**.

4. That a site specific evaluation was conducted regarding how changes in property use or conditions above the CEA area could affect the fate and transport of the groundwater contamination or of vapors emanating from the plume.

If the land use changes to residential the VI pathway will need to be reevaluated and preconstruction activities should include a vapor barrier within the footprint of the proposed building structures. In addition, if the unpaved area within the CEA are paved that could result in a decrease of infiltrating water which in turn will increase the soil gas air space (i.e., dry out the soil), which in turn can increase the vapor phase transport to groundwater by vapor phase diffusion and advection. Therefore, if areas are paved where the soil concentrations are greater that the default impact to groundwater screening levels 4 to 8 quarters of groundwater data will need to be performed to demonstrate the concentrations in groundwater are still decreasing.

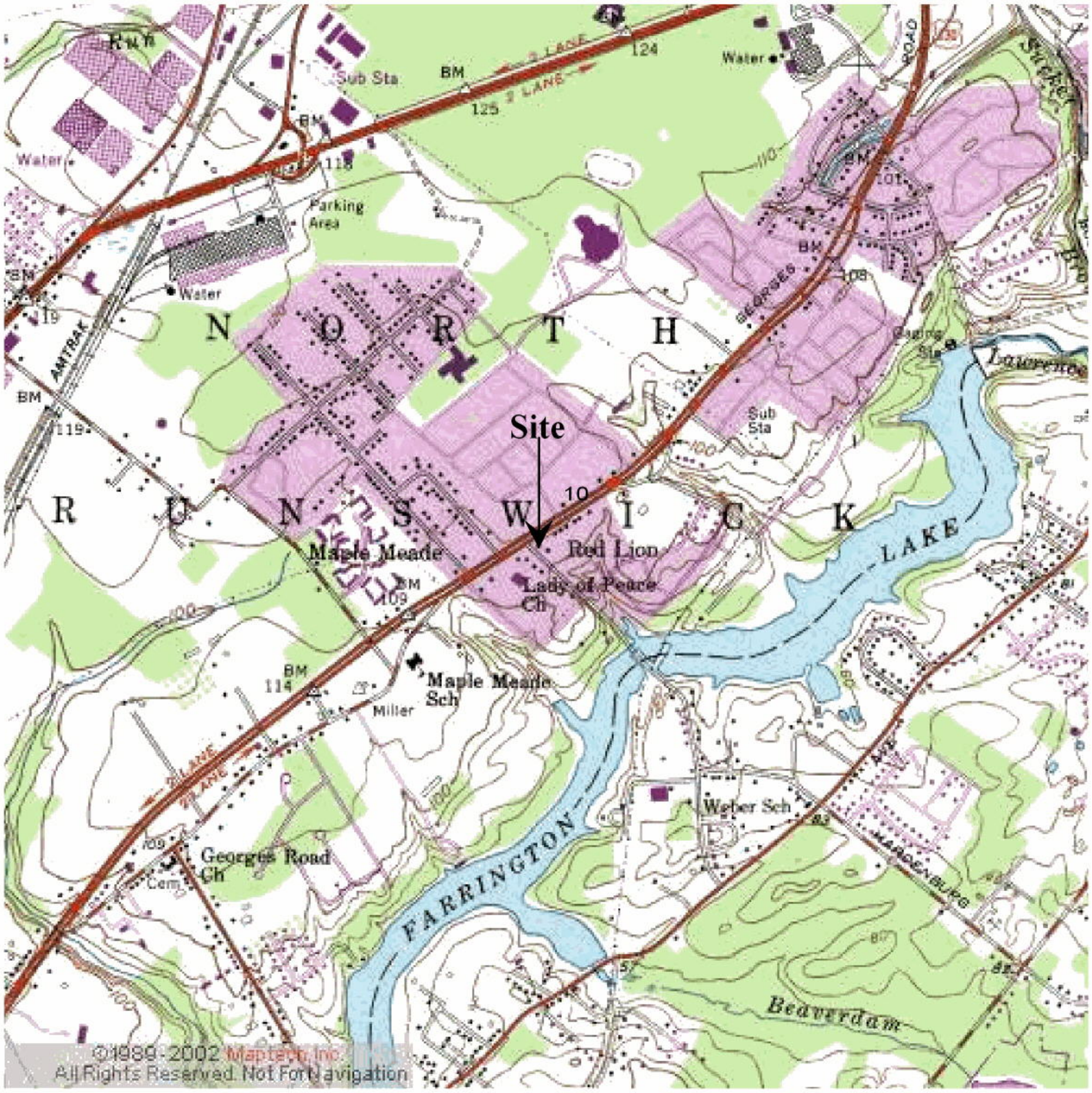
Also if paved areas are disturbed infiltration of rainwater would increase, which in turn could result in more contaminants leaching from the soil to the groundwater resulting in increased concentrations in groundwater. Therefore paved areas should be maintained to minimize increased infiltration.

5. An estimate of how far the plume will travel before it decreases to the ground water quality standards.

Since the site data indicates the plume is stable and shrinking it has been concluded based on professional judgment that the plume will not travel further than its current extent.

6. An estimate of how long the CEA will need to remain in place.

Based on the analysis described above in item # 2 the CEA will need to remain in place for 36.5 years from 5/21/19 which is until 2056. If further remediation is conducted then the duration will need to be re-evaluated.



North Brunswick Quadrangle

N

0' 2030'

(approximate scale in feet)

Contour Interval: 10 feet
Photo Revised: 1981

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #:
File : Topo 10

Date
8/12/16

Figure 1 Site Location

North Bruswick Gulf
1696 Georges Road Rt 130
North Brunswick,New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17

Grass Medium

MW 15

AOC 4

MW 5

Grass

Guard Rail

Quick Out
Convience Store

Water line

Fence

MW 6

AOC 2

Gate

asphalt

Office

AOC 5

Grass

MW 1

Stone

MW 14

AOC 10

HL

Stone

AOC 6

Property Boundary

HL

FD

AOC 7

Dispenser

Kiosk

MW 2

MW 19

Property Boundary

Fence

AOC 1

AOC 9

RW 1

MW 16

Grass

HL

FD

AOC 3

F24

AOC 12

AOC 7

Shed

Shed

Concrete
Over New
Tanks

Electric

Sewer line

MW 7

Stone

MW 11

Gas Line

Fence

Guard Rail

AOC 1

Shed

Guard Rail

Fence

AOC 11

Washington Place

MW 3

MW 4

Fence

Guard Rail

MW 8

Fence

Proposed CEA Boundary

MW 9

Grass

Swale

AOC 8

MW 10

MW 12

R

Water line

MW 13

Storm Drain

Driveway

Water Line

MW 18

Sewer line

MW 20

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Pump Island with dispenser
- Direction of Groundwater flow

List of Areas of Concern (AOCs)

AOC 1: Historical & current UST location.
AOC 2: Former pump island.
AOC 3: Area behind station where high levels of lead were detected in soil.
AOC 4: Unregulated heating oil UST closed in place.
AOC 5: Unregulated heating oil AST.
AOC 6: Waste oil & heating oilAST.
AOC 7: Stom drains behind station.
AOC 8: Swale associated with storm drains.
AOC 9: Two Former floor drains in service area.
AOC 10: Three Former in ground hydraulic lifts in service area.
AOC 11: Former septic system - suspect location
AOC 12: Former Parts Cleaning Basin
AOC 13: Ground water media.

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing # GW AOCs

Date 2/13/19

Figure 2 AOC Locations

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

Rt 130

Rt 130

Grass

Gravel

MW 17

Grass Medium

MW 15

MW 5

Grass

Guard Rail

Quick Out
Convience Store

Fence

Water line

MW 6

Gate

asphalt

Office

MW 1

Grass

Stone

MW 14

HL

Dispenser

Kiosk

Property Boundary

Stone

HL

FD

MW 2

MW 19

Property Boundary

Fence

RW 1

MW 16

Grass

HL

FD

Storm Drain

Concrete
Over New
Tanks

Electric

Sewer line

MW 7

Shed

Shed

Gas Line

Stone

Fence

Guard Rail

Fence

Guard Rail

MW 11

Washington Place

MW 3

Shed

Fence

Guard Rail

Fence

MW 4

MW 8

Fence

Proposed CEA Boundary

MW 9

Grass

Swale

Sewer line

MW 10

R

MW 12

Water line

MW 13

Storm Drain

Driveway

Water Line

MW 18

MW 20

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Pump Island with dispenser
- CEA Boundary Extent

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #
CEA 2nd extent map

Date
8/2/19

Figure 3 CEA Boundary Extent

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

MW 5
MW 1
RW 1
MW 4
MW 9
MW 13
Washington Place
Medium sand
(106.89)
Sandy clay
(106.58)
WATER TABLE 5/21/19
Upper Vertical Boumdaryof CEA
(106.12)
(105.90)
Fine sand
(104.82)
(104.18)
Silty clay
Pea gravel
Silty clay
Clay
Medium sand
Clay & medium sand
TD 12.60'
Clay
Sand & clay
Silty clay
Silty clay
Medium sand
Pennsauken Formation
Plastic Clay at19.5 feet
TD 19.43'
TD 20.1'
Plastic Clay at18 feet
Clay
TD 18.82
TD 19.05
TD 21.08
HORIZONTAL EXTENT OF CEA
LOWER VERTICAL BOUNDARY OF CEA ~ 30 feet below grade
DEPTH (FT)
ELEVATION
DISTANCE (FT)
0
5
10
15
20
25
30
110
105
100
95
90
85
80
0
20
40
60
80
100
120
140
160
180
200
220
240

Horizontal Scale: 1 inch = 26 ft
Vertical Scale: 1 inch = 6.5 ft
Vertical Exageration = 4

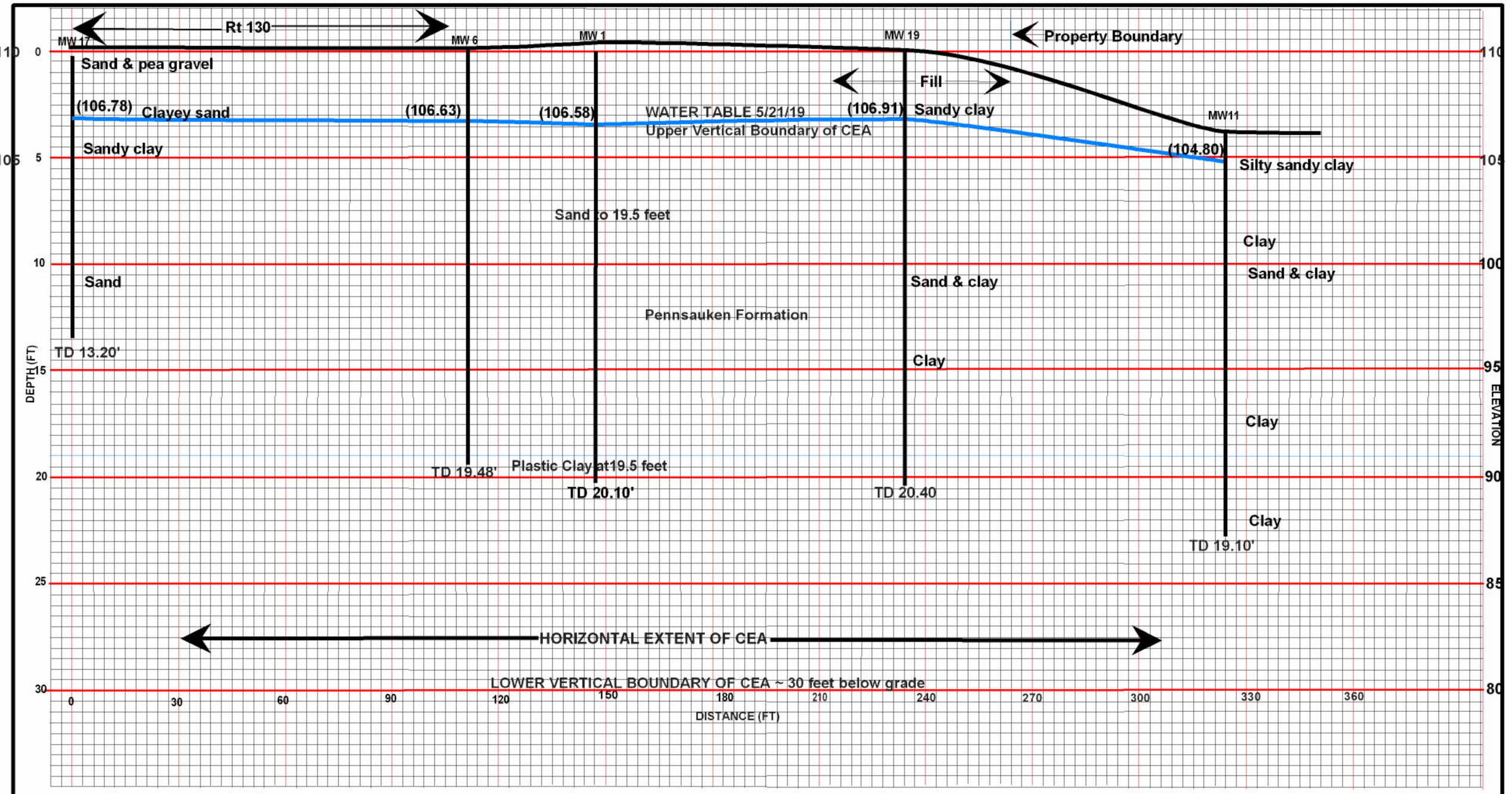
ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #:
File : XSECT 5 to 13

Date
8/1/2019

Figure 4 Cross Section

North Brunswick Gulf
1696 Georges RD RT 130
North Brunswick, New Jersey



Horizontal Scale: 1 inch = 39 ft
Vertical Scale: 1 inch = 6.5 ft
Vertical Exageration = 6

ON-SITE ENVIRONMENTAL
119 SHEPHERDS WAY • COATESVILLE, PA 19320
PHONE: (610) 384-2719 • FAX (610) 384-2709

Drawing #:
File : XSECT 17 to 11

Date
8/1/2019

Figure 5 Cross Section

North Brunswick Gulf
1696 Georges RD RT 130
North Brunswick, New Jersey

Rt 130

Rt 130

Grass

Gravel

MW 17

(106.78)

Grass Medium

MW 15

(107.52)

107'

MW 5

(106.89)

106.5'

106'

105.5'

105'

104.5'

Quick Out
Convience Store

Grass

Guard Rail

Water line

Fence

Gate

asphalt

Office

Stone

MW 6

(106.63)

MW 1

(106.58)

Grass

Property Boundary

Dispenser

Kiosk

HL

FD

MW 14

(103.71)

MW 2

(105.94)

MW 19

(106.91)

RW 1

(106.12)

MW 16

(106.58)

Grass

Concrete
Over New
Tanks

Electric

MW 7

(106.68)

Storm Drain

Shed

Shed

Shed

Stone

Sewer line

Guard Rail

Fence

MW 11

(104.80)

Washington Place

MW 3

(104.49)

MW 4

(105.90)

MW 8

(104.91)

MW 9

(104.82) Grass

Gas Line

Swale

MW 10

(104.25)

MW 12

(104.50)

104'

103.5'

103'

MW 13

(104.18)

Storm Drain

Water Line

Driveway

MW 18

(98.76)

Sewer line

MW 20

(97.36)

(97.36)

KEY

- MW 6 — Monitoring Well & #
- Electric line
- Natural gas line
- Sewer line
- Water line
- Storm drain line
- Sewer manhole 24 inch
- Storm drain
- DOT Box
- DOT Box
- Utility Pole
- R — Residential house
- Tree
- FD — Floor Drain: sealed
- HL — Hydraulic Lift: removed
- Pump Island with dispenser
- (97.36) — Elevation of water table (ft)

N

0' 30'

Approximate scale in feet

ON-SITE ENVIRONMENTAL
119 Shepherds Way • Coatesville, PA 19320
Phone: (610) 384-2719 • Fax (610) 384-2709

Drawing #: WTG 5-21-19

Date: 5/23/19

Figure 6 Water Table Gradient
5/21/19

North Brunswick Gulf
1696 Georges Road RT 130
North Brunswick, New Jersey 08902

Table 1: MW 1 - Summary of Volatile Organic Analysis (ug/l)

	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 1	5/22/2019	1,660	2,510	1,750	10,300	813	<120	<120	<33	<140	<11	<15	<12	<10	44.8 J	70.3	<0.0048	<41	42.9	<37	<18	<11	1,030		4,630 J	3.37	5/22/2019
	12/21/16	398	580	260	980	9	63	13 J	<8.5	6 J	<0.5	<0.5	<0.5	<0.5	23	54	<0.0094	<3	47	<3	<0.5	<0.5	249	62	1,560	8.27	12/21/16
	10/19-20/09	4,500	21,000	2,900	16,000	730	280	76	<2	27	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	3,920	6.4	10/19-20/09
	12/5-6/07	3,750	14,000	1,900	10,000	1,400	<1,000	<500	<20	<100	<20	<20	<10	<20	NA	NA	NA	<100	NA	<100	<10	<20	NA	NA	3,500	6.97	12/5-6/07
	01/11/05	1,250	5,160	1,010	6,590	753	540																		21,100		01/11/05
	03/09/02	3,300	9,100	2,200	9,100	7,200	1,300																		4,490	8.49	03/09/02
	02/27/02	7,800	10,000	3,300	10,000	17,000	5,000																			8.57	02/27/02
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100					
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000								

MW 1 -Summary of Semi Volatile Organics (ug/l)

	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 1	5/22/2019	0.20 J	<0.14	<0.21	<0.21	0.0534	0.102	0.0402 J	<0.34	0.0446 J	0.58 J	5	<0.46	<0.23	<0.18	<0.36	<0.22	<0.23	<0.17	0.22 J	0.0534 J	NA	34	112	0.21 J	<0.22	1,602 J
	12/21/16	0	<0.010	<0.5	0.032 J	0.15	0.48	0.13	0.31	0.13	0.18	<2	<2	<0.5	0.33	0.053	<0.5	<2	0.39	0.19	0.22	21	18	32	0.24	0.40	750 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5		300	100		

Red number exceeds standard — Detection level above standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 2 -Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 2	5/22/2019	935	1,140	923	3,620	65.6	241	<60	<16	<69	<5.6	<7.3	<6	<5.1	44.2	66.8	<0.0053	<20	50.2	<19	<9	<5.3	376	ns	8,140 J	5.32	5/22/2019
	12/19/16	1	4	39	145	1	<5	54	<8.5	25	<0.5	2	<0.5	<0.5	39	17	<0.048	11	78	4	<0.5	<0.5	179	73	1,780 J	6.6	12/19/16
	10/19-20/09	530	1,780	890	3,980	96	820	<50	<2	38	<2	3.4	<1	<2	NA	NA	NA	11	NA	<10	<1	<2	NA	NA	4,480	5.33	10/19-20/09
	12/5-6/07	470	1,800	850	3,600	73	<1000	<500	<20	<100	<20	<20	<10	<20	NA	NA	NA	<100	NA	<100	<10	<20	NA	NA	4,750	5.58	12/5-6/07
	01/11/05	474	2,320	993	5,240	223	833						ND									ND			10,800		01/11/05
	03/09/02	520	520	130	500	670	910						11									4			450	9.35	03/09/02
	02/27/02	980	350	130	500	740	2,500																			8.79	02/27/02
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000								

MW 2 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 2	5/22/2019	0.19 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	0.69 J	5	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.037	NA	56.1	231	<0.17	<0.21	1,430 J
	12/19/16	0.053	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	0.011 J	0.011 J	<0.010	<1	<1	4.9	<0.030	0.013 J	810 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	03/09/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	02/27/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3	0.3	700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard — Detection level above standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued) : MW 3 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 3	5/22/2019	<0.43	<0.53	<0.60	<0.59	65.4	64.3	<6.9	<1.6 e	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.19	5/22/2019
	10/3/2018	<0.43	<0.53	1.3	3.8	261	2,130	33		<6.9		<0.73		<0.51	<0.78	<0.65	<0.0055	<2.0	<0.60	<1.9			<1.0		32 J	4.09	10/3/2018
	12/19/2016	<0.5	<0.5	<0.5	<0.5	200	2,100	20 J	<8.5	<5	<0.5	<2	<0.5	<0.5	<2	<1	<0.0094	<3	<3	<3	<0.5	<0.5	<1	<1	1,900 J	5.98	12/19/2016
	10/19-20/09	1.7	<2	<2	<10	2,400	6,300	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	17	2.77	10/19-20/09
	12/5-6/07	2.2	<5.0	<5.0	<10	2,800	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	124	5.35	12/5-6/07
	1/11/2005	0.650	ND	ND	ND	116	721 D						ND									ND			8.01		1/11/2005
	3/9/2002	19	<2	<5	<2	1,800	360 J						<2									<2			53	9.46	3/9/2002
	2/27/2002	3	<1	<1	<1	710	290																			9.59	2/27/2002
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000								

MW 3 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 3	5/22/2019	<0.18	<0.13	<0.16	<0.16	NA	<0.043	<0.093	<0.32	<0.059	<0.59	<1.6	<0.44	<0.17	<0.17	<0.014	<0.15	<0.77	<0.16	<0.16	<0.036	NA	<0.20	<0.32	<0.17	<0.17	0
	10/3/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.5	<1	<1	<1	<0.030	<0.010	100 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 4 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 4	5/21/2019	0.5	<0.53	<0.6	<0.59	12.3	7.6 J	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.53	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	16	47	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0096	<3	<1	<3	<0.5	<0.5	<1	<1	0	3.01	12/19/2016
	10/19-20/09	<1	<2	<2	<10	150	810	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.59	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	<10	129	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	9.1	3.05	12/5-6/07
	1/12/2005	ND	ND	ND	ND	885	2190 D						ND									ND			3.060		1/12/2005
	3/9/2002	<1	<2	<5	<3	390	410						<2									<2			87	9.18	3/9/2002
	2/27/2002	<1	1	<1	<1	230	450																			12.81	2/27/2002
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 4 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 4	5/21/2019	<0.19	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<0.21	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.23	<0.17	<0.17	<0.037	NA	<0.20	<0.21	<0.17	<0.21	19 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.039 J	<0.030	<0.010	6.38
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3/9/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/27/2002	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1(continued): MW 5 -Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 5	5/22/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	2.1	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	8	NA	332 J	3.39	5/22/2019
	12/19/16	83	25	73	47	2	9 J	7 J	<0.5	3 J	<0.5	<0.5	<0.5	<0.5	6	66	<0.0095	<3	23	<3	<0.5	<0.5	669	220	4,010 J	8.95	12/19/16
	10/19-20/09	120	17	190	340	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	<1	<10	<1	<2	NA	NA	4,900	7.00	10/19-20/09
	12/5-6/07	23	160	350	840	<10	<200*	<100	<4	<20	<4	<4	<2	<4	NA	NA	NA	<20	NA	<20	<2	<4	NA	NA	4,110	7.41	12/5-6/07
	01/11/05	127	53.6	526	1,270	86.2	ND																		14,800		01/11/05
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 5 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 5	5/22/2019	<0.19	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	<0.21	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.037	NA	<0.21	<0.23	<0.17	<0.21	231 J
	12/19/16	0.49	0.37 J	<0.5	0.020 J	0.025 J	0.012 J	<0.010	0.013 J	<0.010	2	<2	<2	<0.5	0.021 J	<0.010	<0.5	<2	0.044 J	0.26	<0.010	101	124	39	0.17	0.046 J	3,360 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 6 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 6	5/22/2019	46.2	69.5	149	662	26	62	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	30.8	54.7	<0.0051	<2.0	46.5	<1.9	<0.9	<0.53	56.1	NA	1,160 J	5.57	5/22/2019
	12/21/16	51	32	58	66	20	70	8 J	<0.5	3 J	<0.5	<0.5	<0.5	<0.5	9	16	<0.0095	6 J	13	<3	<0.5	<0.5	9	9	450 J	8.43	12/21/16
	10/20/09	1,800	2,300	870	3,300	470	340	<50	<2	21	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	3,500	6.54	10/20/09
	12/5/07	579	480	270	710	249	<200*	<100	<4	<20	<4	<4	<2	<4	NA	NA	NA	<20	NA	<20	<2	<4	NA	NA	1,230	7.08	12/5/07
	01/11/05	385	1,210	313	4,110	483	ND																		13,000		01/11/05
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 6 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 6	5/22/2019	0.31 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	0.47 J	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.037	NA	29.4	84.2	<0.17	<0.21	1,518 J
	12/21/16	0.11	0.019 J	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	0.046 J	9	4	11	<0.030	0.013 J	588 J
	10/20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	01/11/05	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 7 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 7	5/22/2019	71.5	<0.53	3.7	4.8	2.7	6.7 J	<5.8	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	1.1	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	14.5	NA	24.6 J	9.15	5/22/2019
	12/21/2016	2.200	810	1.500	5.200	190	430	150	<3	74	<3	<3	<3	<3	26	120	0.052	23 J	34	34	<3	<3	1800	530	4.700	8.07	12/21/2016
	10/19-20/09	4.400	6.500	3.400	21.000	300	300	150	<2	21	<2	<2	<1	<2	NA	NA	NA	26	NA	20	<1	<2	NA	NA	4.437	6.21	10/19-20/09
	12/5-6/07	5.200	5.900	3.500	21.000	390	<2.000*	<1600	<40	<200	<40	<40	<20	<40	NA	NA	NA	<200	NA	<200	<20	<40	NA	NA	7.950	6.81	12/5-6/07
	1/11/2005	5.330	12.600 D	3.790	25.180	254	ND																		62.600		1/11/2005
Class II A Standard		1	600	700	1.000	70	100	6.000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330.000	700	8.600	580		21.000.000	20	2.500.000	770	26.000			16.000		0.4			900.000							

MW 7 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 7	5/22/2019	<0.19	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	<0.21	<1.6	<0.45	<0.22	<0.17	<0.035	<0.22	<0.23	<0.17	<0.17	<0.017	NA	1.1	4.2	<0.17	<0.21	122.6 J
	12/21/2016	0.18	<0.010		0.090	0.012 J	0.023 J	<0.010	0.035 J	0.011 J	1	<2	<2	<2	0.17	0.026 J	<0.010	<0.5	<2	0.14	0.053	0.015 J	38	97	470	0.32	0.096	5.080 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2.000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Detection level above standard

Note: Samples collected in Mav 2019 via low flow technicians

Table 1 (continued): MW 8 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 8	5/21/2019	<0.43	<0.53	<0.60	<0.59	0.75 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	2.81	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	1.6 J	1	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	2.43	12/19/2016
	10/19-20/09	32	2.2	17	12	280	340	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	44.5	2.46	10/19-20/09
	12/5-6/07	170	16	150	330	370	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	472	3.32	12/5-6/07
	1/12/2005	170	64.9	315	2.190	75.5	89.9																		4.980		1/12/2005
Class II A Standard		1	600	700	1.000	70	100	6.000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330.000	700	8.600	580		21.000.000	20	2.500.000	770	26.000			16.000		0.4			900.000							

MW 8 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 8	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	1.7 J	1.3 J	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	0.25 J	<0.17	<0.21	22 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.030	<0.010	12 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2.000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in Mav 2019 via low flow technicians

Table 1 (continued): MW 9 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 9	5/21/2019	<0.43	<0.53	<0.60	<0.59	0.51 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	1.8	<0.53	<1.0	NA	0	1.00	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	2	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	0.79	12/19/2016
	10/19-20/09	<1	<2	<2	<2	<10	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.88	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	NA	37	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5.0	2.46	12/5-6/07
	1/12/2005	NA	NA	NA	NA	96.7	51.5																		88.9		1/12/2005
Class II A Standard		1	600	700	1.000	70	100	6.000	10	300	50			70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330.000	700	8.600	580		21.000.000	20	2.500.000	770	26.000			16.000		0.4			900.000	31						

MW 9 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 9	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	24 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.049 J	<0.030	<0.010	5 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/12/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2.000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in Mav 2019 via low flow technicians

Table 1 (continued): MW 10 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 10	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.82	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	1.37	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	8.39	10/19-20/09
	12/5-6/07	<1.0	<5.0	<5.0	<10	<5.0	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5.0	1.48	12/5-6/07
	1/11/2005	ND	ND	ND	ND	2.09	34.5																		45.8		1/11/2005
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 10 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 10	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	15.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.030	<0.010	0
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5-6/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	1/11/2005	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 11 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 11	5/21/2019	<0.43	15.3	1.4	<0.59	<0.51	<5.8	<0.60	<1.6 a	<6.9	<0.56	<0.73	<0.60	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.40	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	18 J	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.26	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	7.41	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 11 Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 11	5/21/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	4.2 J
	12/19/2016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 12 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 12	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.80	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	1.26	12/19/2016
	10/19-20/09	<1	<2	10	15	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	280	3.87	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 12 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 12	5/21/2019	0.35 J	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	0.70 J	<1.6	<0.44	<0.22	<0.17	<0.034	0.23 J	<0.22	<0.16	0.47 J	<0.036	NA	<0.20	<0.22	<0.17	<0.21	6.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	<0.030	<0.030	<0.010	46 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 13 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 13	5/21/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.61	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	0.9 J	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	0.52	12/19/2016
	10/19-20/09	<1	<2	<2	<10	7.7	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	3.18	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50			70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5	2											100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 13 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 13	5/21/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	0
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.037 J	<0.030	<0.010	5 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 14 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 14	5/22/2019	<0.43	<0.53	<0.60	<0.59	2.9	13.5	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	5.9 J	2.70	5/22/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	3	13 J	10 J	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0094	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.16	12/19/2016
	10/19-20/09	<1	<2	<2	<10	<2	<100	<550	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	0.10	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 14 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 14	5/22/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	3.9 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.033 J	<0.030	<0.010	37 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 15 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 15	5/22/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.95	5/22/2019
	12/20/2019	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	8.24	12/20/2019
	10/19-20/09	<1	<2	<2	<10	<2	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	6.49	10/19-20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100			
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 15 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenzo(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoanthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 15	5/22/2019	<0.19	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<021	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.23	<0.17	<0.17	<0.037	NA	<0.20	<0.23	<0.17	<0.21	0
	12/20/2019	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	<0.010	<0.010	<0.010	<0.1	<0.1	0.045 J	<0.030	<0.010	21 J
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

No standard wass exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 16 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 16	5/21/2019	<0.43	<0.53	<0.69	<0.59	0.78 J	<5.8	<6.0	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	1.96	5/21/2019
	12/19/2016	<0.5	<0.5	<0.5	<0.5	9	<5	<6	<0.5	<3	<0.5	<2	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	2.63	12/19/2016
	10/19/20/09	<1	<2	<2	<10	3.7	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<8	4.09	10/19/20/09
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500		
Interim Groundwater Criteria												5												100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 16 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenza(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 16	5/21/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	18 J
	12/19/2016	<0.010	<0.010	<0.5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.5	<2	<2	<0.5	<0.010	<0.010	<0.5	<2	0.014 J	<0.010	<0.010	<0.1	<0.1	0.053 J	<0.030	<0.010	6 JB
	10/19-20/09	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100																			5			100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 17 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 17	5/22/2019	<0.43	<0.53	<0.63	<0.59	<0.51	<5.8	<6	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0054	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	5.01	5/22/2019
	10/3/2018	<0.43	<0.53	<0.63	<0.59	<0.51	<5.8	<6	<1.6 a	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	7.04	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5												100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 17 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenza(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 17	5/22/2019	<0.19	<0.14	<0.21	<0.21	0.0281 J	<0.043	<0.033	<0.34	<0.033	<0.21	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	<0.21	<0.23	<0.18	<0.22	0
	10/3/2018	<0.18	<0.13	<0.20	<0.20	<0.022	0.0419 J	<0.032	<0.32	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.034	<0.21	<0.22 c	<0.16	<0.16	<0.036	NA	<0.20	<0.22	<0.17	<0.21	
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5				100		
Groundwater Screening Levels for VI																								300			

No standard was exceeded
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 18 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 18	5/21/2019	<0.43	<0.53	0.83 J	<0.59	<0.51	<5.8	<6.0	<1.6 f	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0051	<2.0	<0.60	<1.9	<0.9	<0.53	1.4 J	NA	28 J	4.2	5/21/2019
	11/15/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.09	11/15/2018
	10/3/2018	<0.43	<0.53	<0.60	<0.59	<0.51	6.3 J	<6.0	<1.6 b	<6.9		<0.73	<0.6	<0.51	<0.78	<0.65	<0.0053	<2.0	<0.60	<1.9	<0.9	<0.53	1.1 J	NA	6.1 J	4.82	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5												100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 18 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pryene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenza(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pryene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 18	5/21/2019	5.5	0.48 J	<0.21	0.76 J	0.0348 J	<0.043	<0.033	<0.34	<0.033	1.5	<1.7	<0.46	4.3	<0.18	<0.036	2.8 J	1.5	0.82 J	3.9	<0.038	NA	5.8	23.1	4.3	0.45 J	21.2 J
	11/15/2018	3.4	0.64	<0.20	1.3	0.135	<0.041	<0.032	<0.32	<0.032	1.2	<1.6	<0.44	4.8	<0.17	<0.034	2.6	<0.22	1.4	4	<0.036	4	6.5	25.6	7	0.91	174.1 J
	11/15/18 Filtered	3.2	0.55	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	0.48	<1.6	<0.44	3.3	<0.17	<0.035	0.95	<0.22 a	<0.16	2.6	<0.037	3.8	4.2	20.8	1.1	<0.21	58
	10/3/2018	4.1	0.73 J	0.43 J	1.4	0.208	<0.041	<0.032	<0.32	<0.032	1.4	<1.6	<0.44	5.7	<0.17	<0.034	2.6 J	<0.22 c	1.6	4.4	<0.036	NA	7.1	28.6	6.9	1.2	51.2 J
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5				100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
b:Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.
c: Associated CV outside control limits high, sample was ND
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 19 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 19	5/22/2019	1.330	339	2.800	10.800	<10	<120	<120	<33 f	<140	41.5	<15	<12	17.9 J	98.0 J	148	<0.0053	<41	110	<37	<18	<11	2.450		6.540 J	2.81	5/22/2019
	10/3/2018	868	1.960	1.790	8.790	<10	123 J	144 J	<33 a	<140	<11	<15	<12	65.9	103	156	<0.0053	<41	129	<37	<18	<11	2.860		5.140	5.96	10/3/2018
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 19 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 19	5/22/2019	0.35 J	<0.13	<0.20	<0.21	<0.022	<0.043	<0.032	<0.33	<0.033	1.4	<1.6	<0.45	3	<0.17	<0.035	<0.22	<0.23	<0.17	0.39 J	<0.037	NA	92.3	433	0.22 J	<0.21	3.890 J
	10/3/2018	0.36 J	<0.13	<0.20	<0.20	<0.022	<0.041	<0.032	<0.32	<0.032	1.7	<1.6	<0.44 c	0.47 J	<0.17	<0.034 c	<0.21	<0.22 c	<0.16	0.25 J	<0.036	NA	133	327	0.25 J	<0.21	3,717.7 J
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
d: Associated CCV outside of control limits high
e: Associated CCV outside of control limits high, sample was ND.
f: Associated CCV outside of control limits low.

: Detection level above standard

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): MW 20 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
MW 20	5/21/2019	0.68	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6 f	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0		<1.9	<0.9	<0.53	<1.0	NA	7.2 J	3.67	5/21/2019
	1/18/2019	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8	<6.0	<1.6	<6.9	<0.56	<0.73	<0.6	<0.51	<0.78	<0.65	<0.0052	<2.0	<0.60	<1.9	<0.9	<0.53	<1.0	NA	0	3.2	1/18/2019
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

MW 20 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
MW 20	5/21/2019	2.7	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	0.33 J	<1.7	<0.46	0.55 J	<0.18	<0.036	0.49 J	<0.23	<0.17	0.90 J	<0.038	NA	0.98 J	7.8	0.25 J	<0.22	5.2 J
	1/18/2019	<0.18	<0.13	<0.20	<0.20	<0.022	<0.042	<0.032	<0.33	<0.032	<0.20	<1.6	<0.44	<0.22	<0.17	<0.035	<0.21	<0.22	<0.16	0.20 J	<0.037	NA	<0.20	0.25	<0.17	<0.21	
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Shaded number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

a: Associated CCV and BS outside of control limits high, sample was ND.
c: Associated CCV outside control limits high, sample was ND
d: Associated CCV outside of control limits high
e: Associated CCV outside of control limits high, sample was ND.
f: Associated CCV outside of control limits low.

Note: Samples collected in May 2019 via low flow techniques

Table 1 (continued): RW 1 - Summary of Volatile Organics (ug/l)

Well Number	Date Sampled	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Xylenes (ug/l)	MTBE (ug/l)	TBA (ug/l)	Acetone (ug/l)	Bromomethane (ug/l)	2- Butanone (ug/l)	Chlorobenzene (ug/l)	Chloroethane (ug/l)	1,2 Dichloroethane (ug/l)	cis-1,2-Dichloroethene (ug/l)	Cyclohexane (ug/l)	Cumene (ug/l)	Ethylene dibromide (ug/l)	2-Hexanone (ug/l)	Methylcyclohexane (ug/l)	4-Methyl-2-pentanone (ug/l)	Tetrachloroethene (ug/l)	1,1,2- Trichloroethane (ug/l)	1,2,4-TMB (ug/l)	1,3,5 TMB (ug/l)	Total TICs (ug/l)	DTW (ft)	Date Sampled
RW 1	5/22/2019	510	940	295	1,490	58.8	111	<30	<8.2 a	<34	<2.8	<3.6	<3	<2.5	21.8 J	38.8	<0.0055	<10	10.9 J	<9.3	<4.5	<2.7	178		1,015 J	3.00	5/22/2019
	10/3/2018	<0.43	<0.53	<0.60	1.2	0.89 J	11	<6.0		<6.9		<0.73			<0.78	<0.65	<0.0055	<2.0	<0.60	<1.9			<1.0		0	5.43	10/3/2018
	12/21/2016	<0.5	<0.5	<0.5	<0.5	1	10 J	<6	<0.5	<3	<0.5	<0.5	<0.5	<0.5	<2	<1	<0.0095	<3	<1	<3	<0.5	<0.5	<1	<1	0	7.23	12/21/2016
	10/19/2009	9	<2	<2	<5	<10	6.5	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	29	5.33	10/19/2009
	12/5/2007	<1	<5	<5	<5	<10	7.5	<100	<50	<2	<10	<2	<2	<1	<2	NA	NA	NA	<10	NA	<10	<1	<2	NA	NA	<5	6.04	12/5/2007
Class II A Standard		1	600	700	1,000	70	100	6,000	10	300	50		2	70		700	0.03	40			1	3			100/500	100/500	100/500
Interim Groundwater Criteria												5											100				
Groundwater Screening Levels for VI		20	330,000	700	8,600	580		21,000,000	20	2,500,000	770	26,000			16,000		0.4			900,000							

RW 1 - Summary of Semi Volatile Organics (ug/l)

Well Number	Date Sampled	Acenaphthene (ug/l)	Acenaphthylene (ug/l)	Acetophone (ug/l)	Anthracene (ug/l)	Benzo(a) anthracene (ug/l)	Benzo(b) fluoranthene (ug/l)	Benzo(k) fluoranthene (ug/l)	Benzo(ghi) perylene (ug/l)	Benzo(a) pyrene (ug/l)	1,1-Biphenyl (ug/l)	Bis (2-ethylhexyl) phthalate (ug/l)	Butyl benzyl phthalate (ug/l)	Carbazole (ug/l)	Chrysene (ug/l)	Dibenz(a,h) anthracene (ug/l)	Dibenzofuran (ug/l)	Di-n-octyl phthalate (ug/l)	Fluoranthene (ug/l)	Fluorene (ug/l)	Indeno(1,2,3-cd) pyrene (ug/l)	1-Methyl naphthalene (ug/l)	2-Methyl naphthalene (ug/l)	Naphthalene (ug/l)	Phenanthrene (ug/l)	Pryene (ug/l)	Total SVOC TICs (ug/l)
RW 1	5/22/2019	<0.19	<0.14	<0.21	<0.21	<0.023	<0.043	<0.033	<0.34	<0.033	<021	<1.7	<0.46	<0.23	<0.18	<0.036	<0.22	<0.23	<0.17	<0.17	<0.038	NA	5.9	58.3	<0.18	<0.22	568.2 J
	10/3/2018																										
	12/21/2016	<0.010	<0.010	<0.5	<0.010	<0.010	0.028 J	0.011 J	0.024 J	0.015 J	<0.5	<2	<2	<0.5	0.020 J	<0.010	<0.5	<2	0.015 J	<0.010	0.016 J	<0.1	<0.1	0.082	<0.030	0.017 J	17.3B
	10/19/2009	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	12/5/2007	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Class II A Standard		400		700	2,000	0.1	0.2	0.5		0.1	400	3	100		5	0.3		700	300	300	0.2		30	300		200	100/500
Interim Groundwater Criteria			100						100													5			100		
Groundwater Screening Levels for VI																								300			

Red number exceeds standard
DTW: Depth to water
NS: Not sampled
ND: non detected
NA: Not analyzed

: Detection level above standard

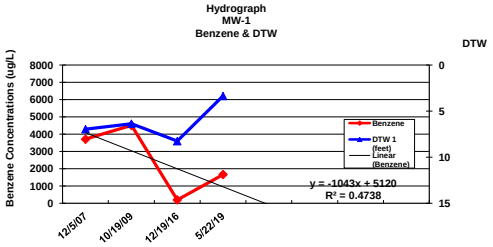
Note: Samples collected in May 2019 via low flow techniques

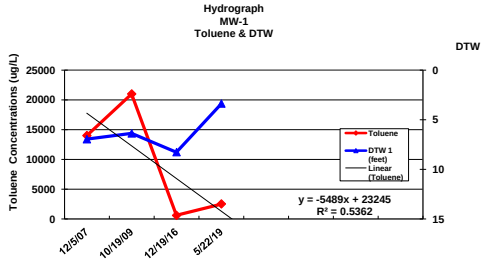
MW 1 Groundwater Monitoring Data Table and Hydrographs with Trend Line

ug/L

Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-1	2/27/02	8.57	7800	18000	3300	10000	17000	3000
	3/9/02	8.48	5300	9100	2500	9100	7200	1300
	1/11/05		1290	5160	1030	6590	753	540
	12/5/07	6.97	3700	14000	1900	10000	1600	<1000
	10/19/09	6.38	4500	21000	2900	16000	730	290
	12/19/16	8.27	190	580	260	980	9	63
	5/22/19	3.37	1660	2510	1750	10300	83.6	<120
Groundwater Quality Standard			1	600	700	1,000	70	100

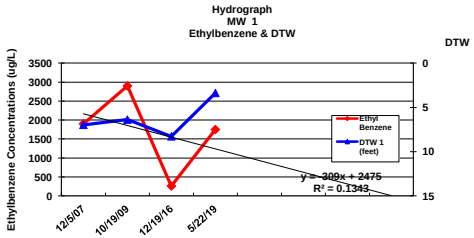
[1] DTW depth to groundwater

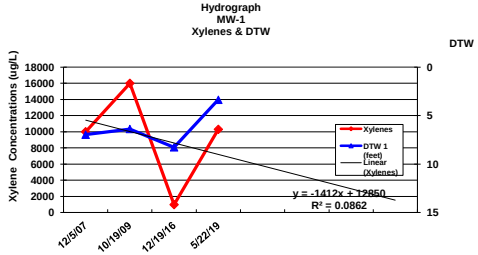


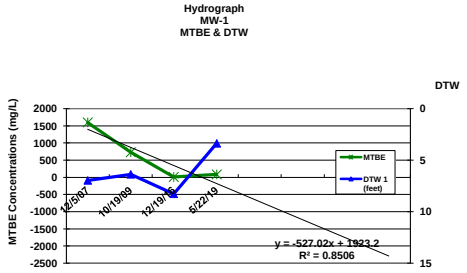


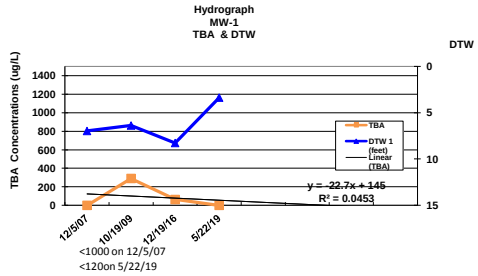
NO remedial activities were conducted after July 2003

Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.









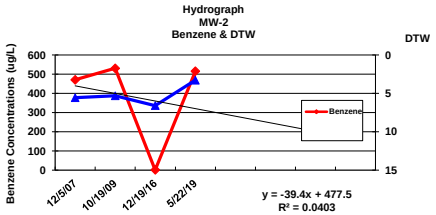
MW 2 Groundwater Monitoring Data Table and Hydrographs with Trend Line

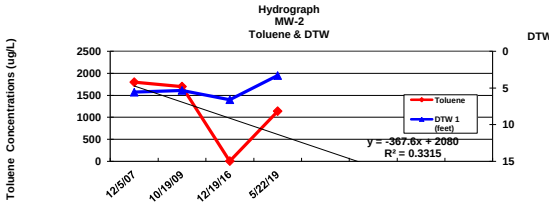
ug/L

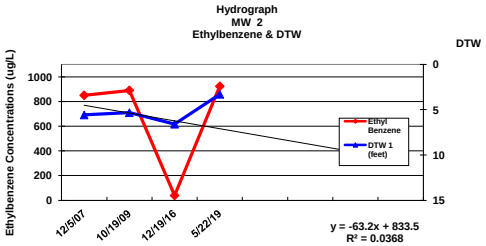
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-2	2/27/02	8.79	390	350	130	500	740	2500
	3/9/02	8.48	220	520	130	500	670	910
	1/11/05		474	2320	992	5240	223	833
	12/5/07	5.58	470	1800	850	3600	71	<1000
	10/19/09	5.33	530	1700	890	3900	96	820
	12/19/16	6.60	1	4	39	145	1	<5
	5/22/19	3.30	515	1140	923	3620	65.6	241.0
Groundwater Quality Standard			1	600	700	1,000	70	100

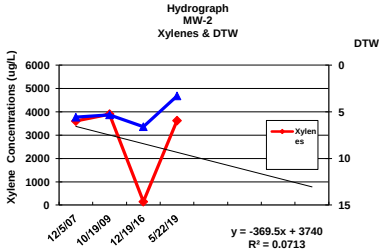
[1] DTW depth to groundwater

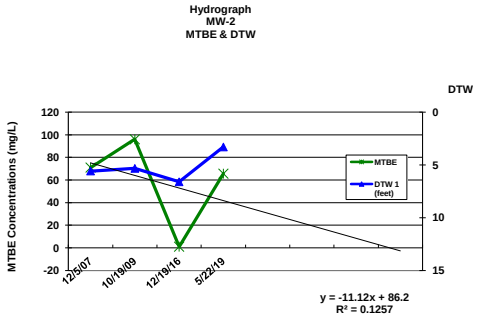
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

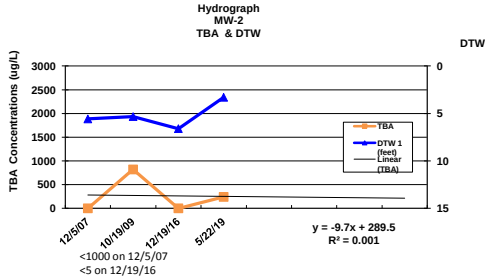












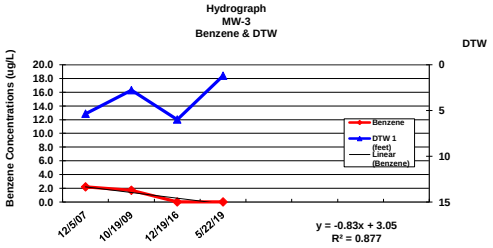
<1000 on 12/5/07
<5 on 12/19/16

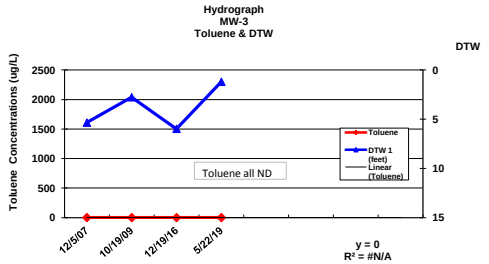
MW 3 Groundwater Monitoring Data Table and Hydrographs with Trend Lines
ug/L

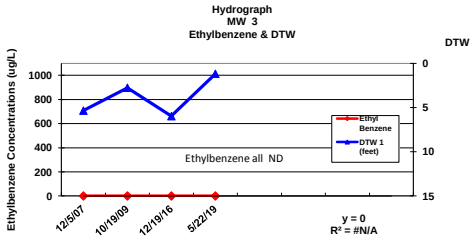
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE	TBA
MW-3	2/27/02	9.59	3	<1	<1	<1	710	290
	3/9/02	9.53	19	<2	<5	<2	3000	360
	1/11/05		0.659	ND	ND	ND	116	732
	12/5/07	5.35	2.2	<5	<5	<10	2800	<100
	10/19/09	2.77	1.7	<2	<2	<10	2000	6300
	12/19/16	5.98	<0.5	<0.5	<0.5	<0.5	200	2100
	5/22/19	1.19	<0.43	<0.53	<0.6	<0.59	65.4	64.3
Groundwater Quality Standard			1	600	700	1,000	70	100

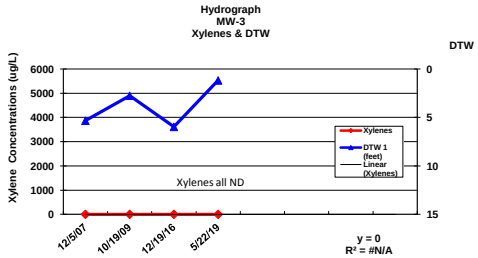
[1] DTW depth to groundwater

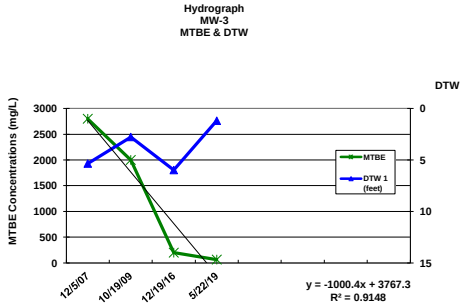
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

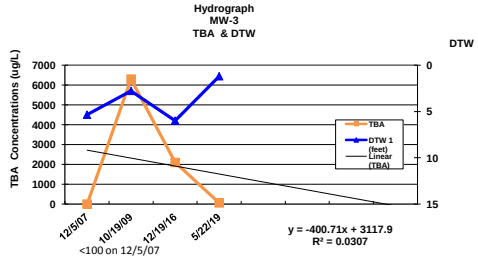












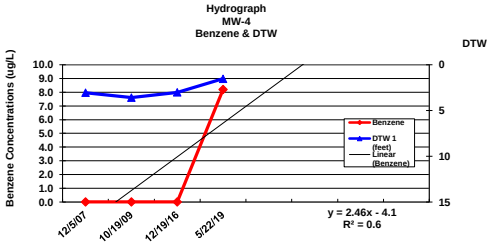
MW 4 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

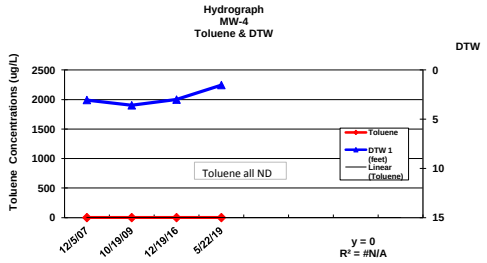
ug/L

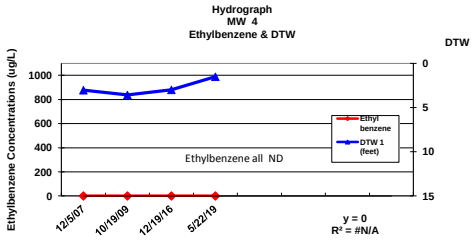
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-4	2/27/02	9.59	<1	1	<5	<1	230	450
	3/9/02	9.18	<1	<2	ND	<3	390	410
	1/11/05		ND	ND	<5	ND	865	2190
	12/5/07	3.05	<1	<5	<2	<10	120	<100
	10/19/09	3.59	<1	<2	<10	<10	150	810
	12/19/16	3.01	<0.5	<0.5	<0.5	<0.5	16	47
	5/22/19	1.53	8.2	<0.53	<0.6	<0.59	12.3	7.0
Groundwater Quality Standard			1	600	700	1,000	70	100

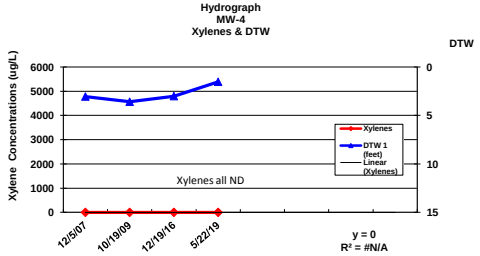
[1] DTW depth to groundwater

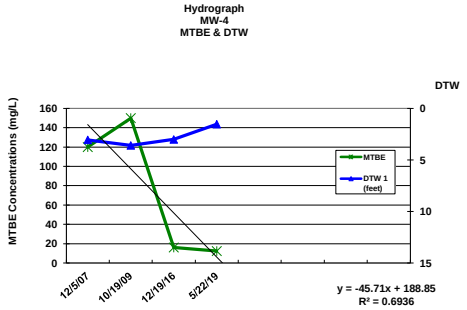
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

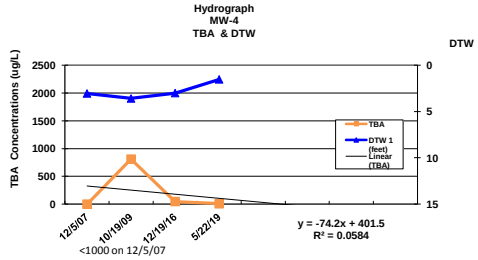












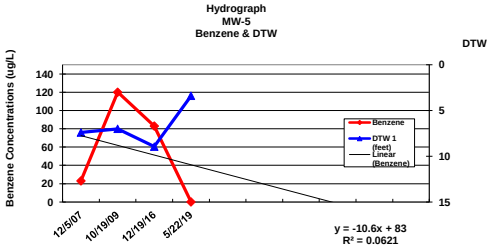
MW 5 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

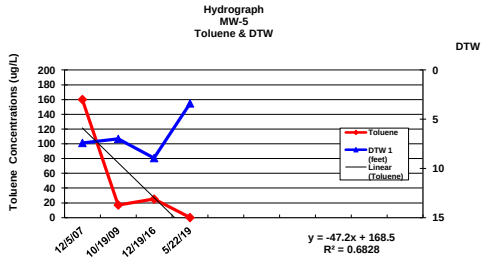
ug/L

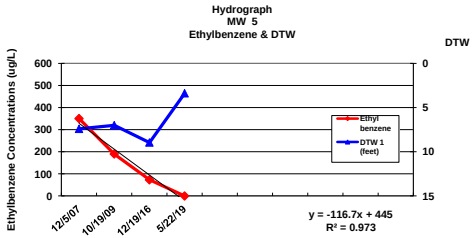
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-5	1/11/05		122	53.6	526	1270	86.2	ND
	12/5/07	7.41	23	160	350	840	<10	<200
	10/19/09	7.00	120	17	190	340	<2	<100
	12/19/16	8.95	83.0	25	73	47	2	7
	5/22/19	3.39	<0.43	<0.53	<0.60	<0.59	<0.51	<5.8
Groundwater Quality Standard			1	600	700	1,000	70	100

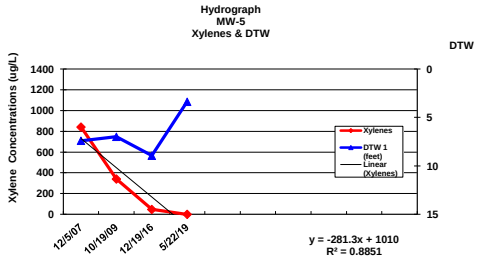
[1] DTW depth to groundwater

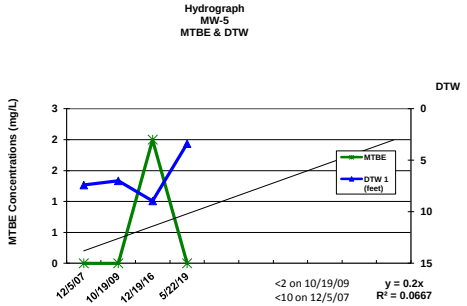
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.



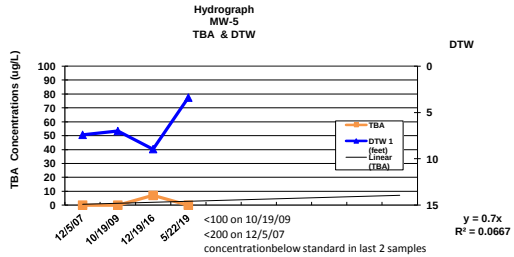








<2 on 10/19/09
<10 on 12/5/07
Concentrations below standard in last 2 samples



<100 on 10/19/09
<200 on 12/5/07
concentrationbelow standard in last 2 samples

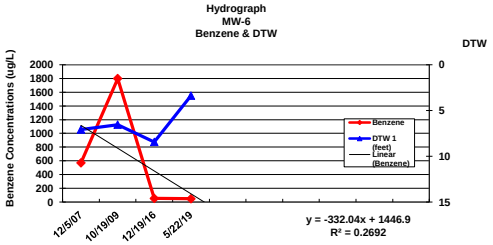
MW 6 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

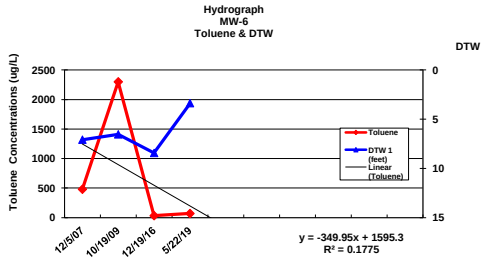
ug/L

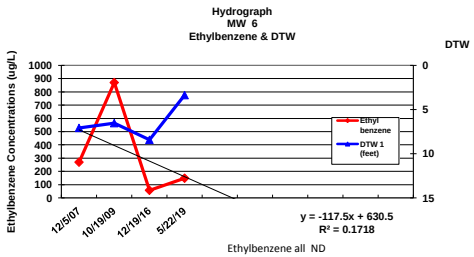
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-6	1/11/05		385	1210	313	4110	483.0	ND
	12/5/07	7.08	570	480	270	710	240	<200
	10/19/09	6.54	1800	2300	870	3300	470	340
	12/19/16	8.43	51.0	32	58	66	20	70
	5/22/19	3.37	46.2	69.5	149	662	26	62
Groundwater Quality Standard			1	600	700	1,000	70	100

[1] DTW depth to groundwater

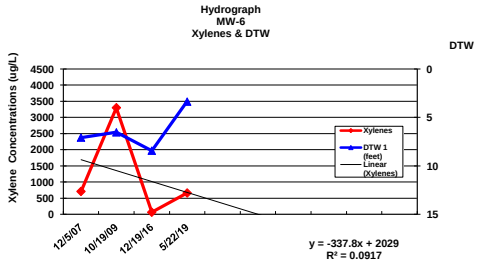
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

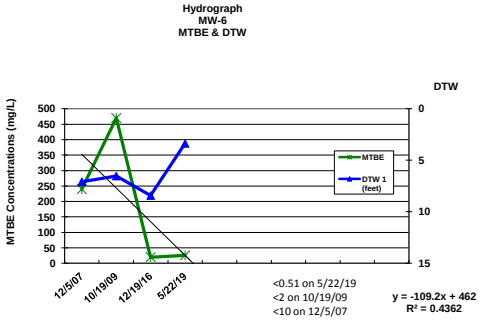


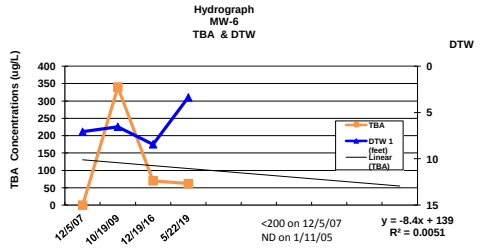




Ethylbenzene all ND







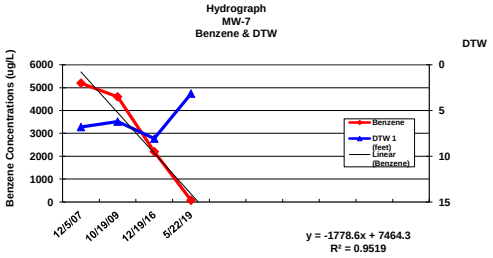
MW 7 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

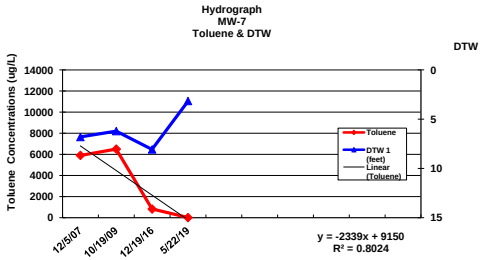
ug/L

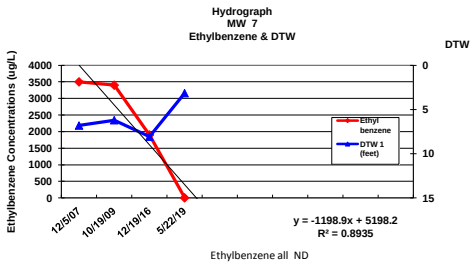
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-7	1/11/05		5330	12600	3790	25100	254	ND
	12/5/07	6.81	5200	5900	3500	21000	390	<2000
	10/19/09	6.21	4600	6500	3400	21000	390	380
	12/19/16	8.07	2200	810	1900	5200	190	430
	5/22/19	3.15	71.5	<0.53	3.7	5	3	6.7
Groundwater Quality Standard			1	600	700	1,000	70	100

[1] DTW depth to groundwater

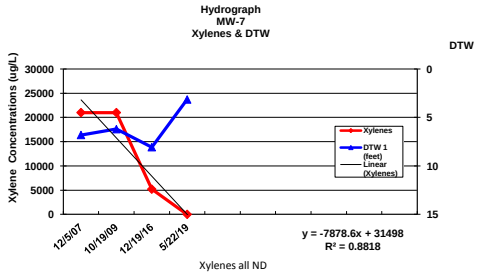
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.



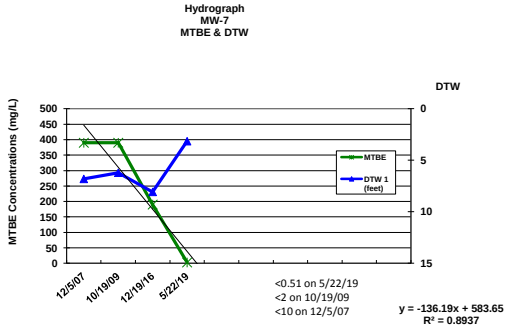


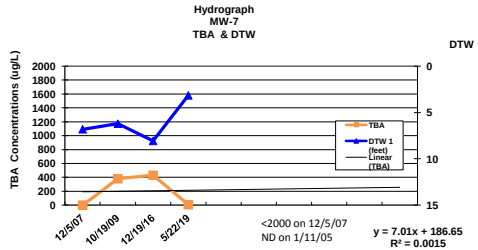


Ethylbenzene all ND



Xylenes all ND





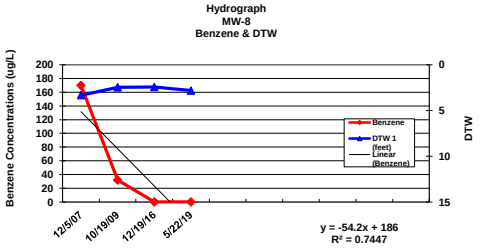
MW 8 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

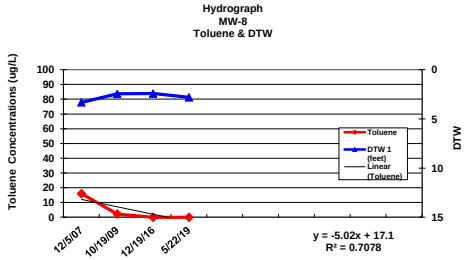
ug/L

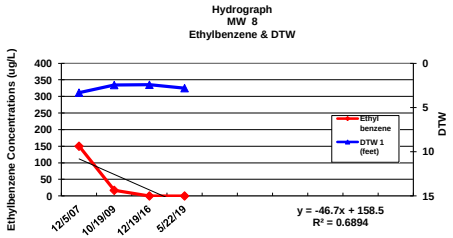
Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
MW-8	1/11/05		170	64.9	315	2190	75.5	89.9
	12/5/07	3.32	170	16	150	330	370	<100
	10/19/09	2.46	32	2	17	12	280	340
	12/19/16	2.43	<0.5	<0.5	<0.5	2	1	<5
	5/22/19	2.81	<0.43	<0.53	<0.60	<0.59	0.75	<5.8
Groundwater Quality Standard			1	600	700	1,000	70	100

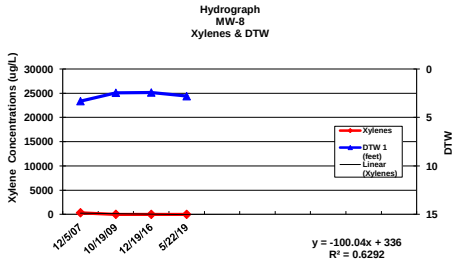
[1] DTW depth to groundwater

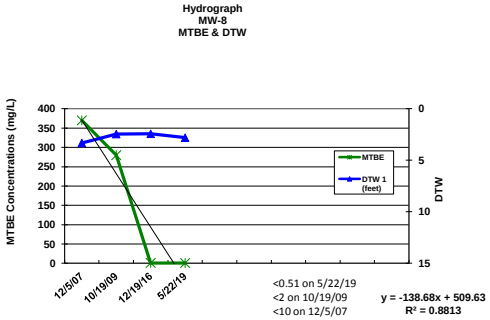
NO remedial activities were conducted after July 2003
Only summary table of the analytical data for the samples collected in January 2005 by the Whitman Co. were available for review.

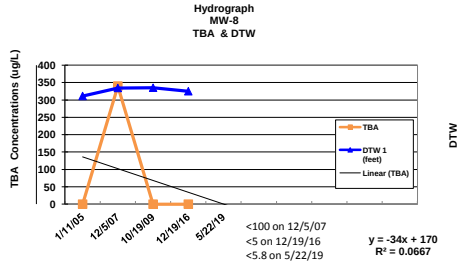










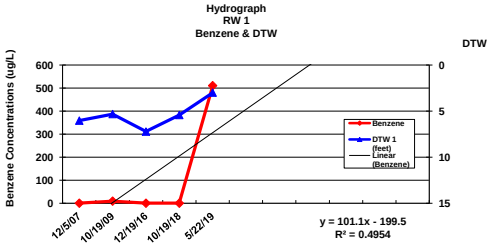


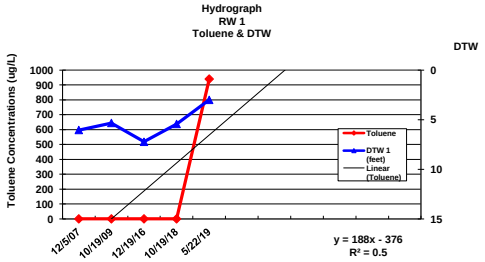
RW 1 Groundwater Monitoring Data Table and Hydrographs with Trend Lines

ug/L

Well No.	Date	DTW [1] (feet)	Benzene	Toluene	Ethyl benzene	Xylenes	MTBE	TBA
RW 1	12/5/07	6.04	<1	<5	<5	<10	7.5	<100
	10/19/09	5.33	9	<2	<2	<10	6.5	<100
	12/19/16	7.23	<0.5	<0.5	<0.5	<0.5	1	10
	10/19/18	5.43	<0.43	<0.53	<0.60	1.2	0.89	11
	5/22/19	3.00	510	940	295	1490	58.80	111
Groundwater Quality Standard			1	600	700	1,000	70	100

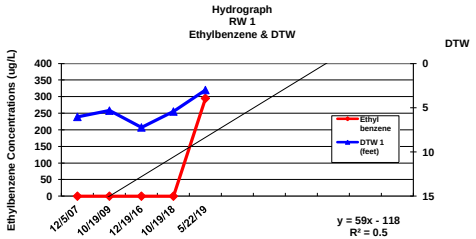
[1] DTW depth to groundwater

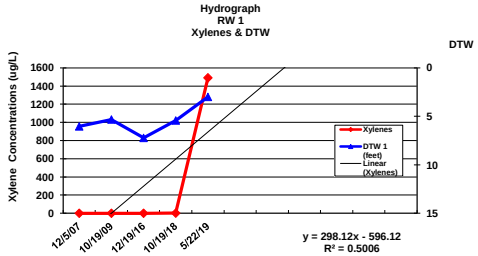


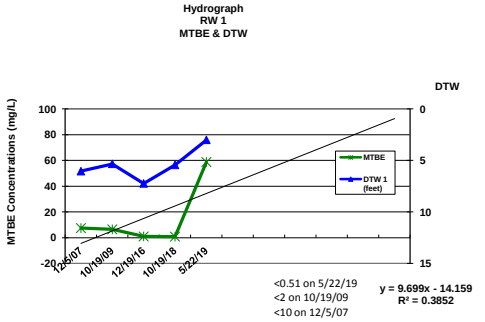


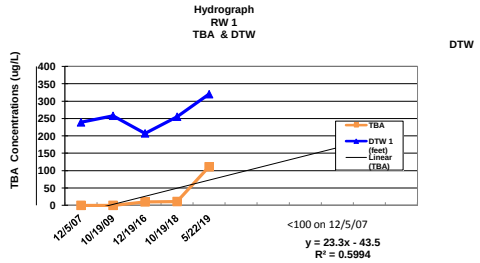
NO remedial activities were conducted after July 2003

Only summary table of the analytical data for the samples collected on 12/5/07 by the Whitman Co. were available for review.









State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000* . Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 1

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	3,700.00	14,000.00	1,900.00	10,000.00	1,600.00	1000.00
2	19-Oct-09	4,500.00	21,000.00	2,900.00	16,000.00	730.00	290.00
3	21-Dec-16	190.00	580.00	260.00	980.00	9.00	63.00
4	22-May-19	1,660.00	2,510.00	1,750.00	10,300.00	83.60	100.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic	S =	-2	-2	-2	0	-4	-4
Number of Rounds	n =	4	4	4	4	4	4
Average =		2512.50	9522.50	1702.50	9320.00	605.65	363.25
Standard Deviation =		1956.28	9676.85	1088.74	6207.54	737.73	435.99
Coefficient of Variation (CV) =		0.78	1.02	0.64	0.67	1.22	1.20
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	No Trend	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	**CV > 1 NON-STABLE**	**CV <= 1 STABLE**	**CV <= 1 STABLE**	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000* . Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 2

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	21/5/07	470.00	1,800.00	850.00	3,600.00	71.00	1000.00
2	19-Oct-09	530.00	1,700.00	890.00	3,900.00	96.00	820.00
3	21-Dec-16	1.00	4.00	39.00	145.00	1.00	5.00
4	22-May-19	515.00	1,140.00	923.00	3,620.00	65.60	241.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic	S =	0	-4	2	0	-2	-4
Number of Rounds	n =	4	4	4	4	4	4
Average =		379.00	1161.00	675.50	2816.25	58.40	516.50
Standard Deviation =		253.29	824.20	425.38	1786.09	40.49	470.25
Coefficient of Variation (CV) =		0.67	0.71	0.63	0.63	0.69	0.91
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	No Trend	No Trend	No Trend	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	NA	**CV <= 1 STABLE**	**CV <= 1 STABLE**	**CV <= 1 STABLE**	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 3

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	2.20	2.50	2.50	5.00	2,800.00	50.00
2	19-Oct-09	1.70	1.00	1.00	5.00	2,000.00	6300.00
3	21-Dec-16	0.25	0.27	0.25	3.80	200.00	2100.00
4	21-May-19	0.22	0.27	0.30	0.30	65.40	64.30
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-5	-4	-5	-6	0
Number of Rounds n =		4	4	4	4	4	4
Average =		1.09	1.01	1.01	3.52	1266.35	2128.58
Standard Deviation =		1.01	1.05	1.05	2.23	1350.27	2942.98
Coefficient of Variation (CV) =		0.93	1.05	1.04	0.63	1.07	1.38
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	No Trend
Trend ≥ 90% Confidence Level		**DECREASING**	No Trend	No Trend	No Trend	**DECREASING**	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	**CV > 1 NON-STABLE**
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000* . Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 4

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	0.50	2.50	2.50	5.00	120.00	50.00
2	19-Oct-09	0.50	1.00	1.00	5.00	150.00	810.00
3	21-Dec-16	0.50	0.25	0.25	0.25	16.00	47.00
4	22-May-19	8.20	0.27	0.30	0.30	12.30	7.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		3	-4	-4	-3	-4	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		2.43	1.00	1.01	2.64	74.58	228.50
Standard Deviation =		3.85	1.06	1.05	2.73	70.86	388.16
Coefficient of Variation (CV) =		1.59	1.05	1.04	1.04	0.95	1.70
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	**DECREASING**	No Trend	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		**CV > 1 NON-STABLE**	NA	NA	**CV > 1 NON-STABLE**	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 5

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	23.00	160.00	350.00	840.00	5.00	100.00
2	19-Oct-09	120.00	17.00	190.00	340.00	1.00	50.00
3	19-Dec-16	83.00	23.00	73.00	47.00	2.00	7.00
4	22-May-19	0.22	0.27	0.30	0.30	0.26	2.90
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-2	-4	-6	-6	-4	-6
Number of Rounds n =		4	4	4	4	4	4
Average =		56.55	50.07	153.33	306.82	2.06	39.98
Standard Deviation =		54.85	73.92	152.64	385.94	2.08	45.33
Coefficient of Variation (CV) =		0.97	1.48	1.00	1.26	1.01	1.13
Trend ≥ 80% Confidence Level		No Trend	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	**DECREASING**	**DECREASING**	No Trend	**DECREASING**
Stability Test, If No Trend Exists at 80% Confidence Level		**CV <= 1 STABLE**	NA	NA	NA	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 6

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	570.00	480.00	270.00	710.00	240.00	200.00
2	19-Oct-09	1,800.00	2,300.00	870.00	3,300.00	470.00	340.00
3	19-Dec-16	51.00	32.00	58.00	66.00	20.00	70.00
4	22-May-19	46.20	69.50	149.00	662.00	26.00	62.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-4	-2	-2	-2	-2	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		616.80	720.38	336.75	1184.50	189.00	168.00
Standard Deviation =		826.21	1072.46	365.95	1440.43	213.46	130.96
Coefficient of Variation (CV) =		1.34	1.49	1.09	1.22	1.13	0.78
Trend ≥ 80% Confidence Level		**DECREASING**	No Trend	No Trend	No Trend	No Trend	**DECREASING**
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	**CV > 1 NON-STABLE**	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 7

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	5,200.00	5,900.00	3,500.00	21,000.00	390.00	2000.00
2	19-Oct-09	4,600.00	6,500.00	3,400.00	21,000.00	390.00	380.00
3	19-Dec-16	2,200.00	810.00	1,900.00	5,200.00	190.00	430.00
4	22-May-19	71.50	0.27	3.70	4.80	2.70	6.70
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-4	-6	-5	-5	-4
Number of Rounds n =		4	4	4	4	4	4
Average =		3017.88	3302.57	2200.93	11801.20	243.18	704.18
Standard Deviation =		2353.35	3370.87	1637.45	10831.54	185.98	884.29
Coefficient of Variation (CV) =		0.78	1.02	0.74	0.92	0.76	1.26
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**
Trend ≥ 90% Confidence Level		**DECREASING**	No Trend	**DECREASING**	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	NA
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000*. Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	MW 8

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	170.00	16.00	150.00	330.00	370.00	50.00
2	19-Oct-09	32.00	2.20	17.00	12.00	280.00	340.00
3	19-Dec-16	0.25	0.25	0.25	1.60	1.00	2.50
4	22-May-19	0.22	0.27	0.30	0.30	0.75	2.90
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		-6	-4	-4	-6	-6	-2
Number of Rounds n =		4	4	4	4	4	4
Average =		50.62	4.68	41.89	85.97	162.94	98.85
Standard Deviation =		80.99	7.60	72.50	162.77	190.71	162.31
Coefficient of Variation (CV) =		1.60	1.62	1.73	1.89	1.17	1.64
Trend ≥ 80% Confidence Level		**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	**DECREASING**	No Trend
Trend ≥ 90% Confidence Level		**DECREASING**	No Trend	No Trend	**DECREASING**	**DECREASING**	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		NA	NA	NA	NA	NA	**CV > 1 NON-STABLE**
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	28-Jun-19	Checked By =	FJ
Concentration Units =	ug/L				

State of Idaho
Department of Environmental Quality
Waste Management and Remediation Division

Mann-Kendall Statistical Test
Version 2.01 12/5/13

Instructions: To use the spreadsheet, provide at least four rounds and up to ten rounds of data. Enter the data in cells with yellow background. Output is presented in blue background cells. Use consistent concentration units. All non-detect values should be assigned a single value, less than the detection limit, even if the detection limit varies over time. The spreadsheet contains several error checks and a data entry error may cause "DATA ERR" to be displayed. Dates that are not consecutive will show an error message and will not display the test results. The spreadsheet tests the data for both increasing and decreasing trends at 80% and 90% confidence levels. If an increasing or decreasing trend is not present, use the additional coefficient of variation (CV) test for stable and non-stable conditions, as proposed by Wiedemeier, et al (2000), *Designing Monitoring Programs to Effectively Evaluate the Performance of Natural Attenuation, AFCEE, San Antonio, Texas, January 2000* . Clicking the PRINT button will print both the data analysis sheet and the plot of concentration trends.

This spreadsheet is adapted from State of Wisconsin DNR, Remediation and Redevelopment Program Form 4400-215 (2/2001), developed by George Mickelson.

Site Name =	North Brunsick Gulf	City =		Site ID =		Well Number =	RW 1

Compound		Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	TBA
Event Number	Sampling Date (most recent last)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)	Concentration (leave blank if no data)
1	5-Dec-07	0.50	2.50	2.50	5.00	7.50	50.00
2	19-Oct-09	9.00	1.00	1.00	5.00	6.50	50.00
3	19-Dec-16	0.25	0.25	0.25	0.25	1.00	0.25
4	22-May-19	510.00	940.00	295.00	1,490.00	58.80	111.00
5							
6							
7							
8							
9							
10							
Mann Kendall Statistic S =		2	0	0	1	0	1
Number of Rounds n =		4	4	4	4	4	4
Average =		129.94	235.94	74.69	375.06	18.45	52.81
Standard Deviation =		253.41	469.38	146.88	743.30	27.05	45.33
Coefficient of Variation (CV) =		1.95	1.99	1.97	1.98	1.47	0.86
Trend ≥ 80% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Trend ≥ 90% Confidence Level		No Trend	No Trend	No Trend	No Trend	No Trend	No Trend
Stability Test, If No Trend Exists at 80% Confidence Level		CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV > 1 NON-STABLE	CV <= 1 STABLE
Error Check, Blank If no Errors Detected							

Data Entry By =	FJ	Date =	25-Jul-19	Checked By =	FJ
Concentration Units =	ug/L				

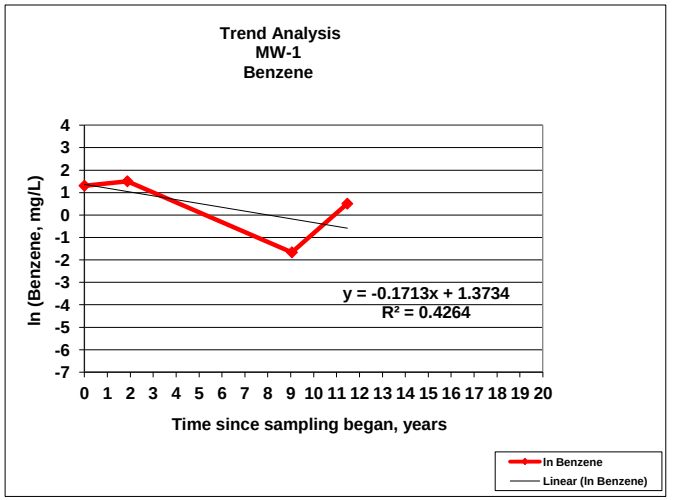
First-Order Decay Rate Calculation

Facility Name: North Brunswick Gulf **Facility ID:** _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ **Date:** 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): Source well - MW 1

Sampling Date	Depth to Ground Water feet	Benzene MW-1 mg/L	Benzene MW-1 ug/L	ln Benzene MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		3.700	3700	1.308	0.00
10/19/09		4.500	4500	1.504	1.87
12/21/16		0.190	190	-1.661	9.05
5/22/19		1.660	1660	0.507	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



R 0.6529

Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-1, Benzene			
Enter C_{CL}	⇨	0.001	
Enter C_o	⇨	3.7	
Enter k_{point}	⇨	0.1713	
Time to reach cleanup level		48.0	years
36.53 more years to reach standard from 5/22/19			

First-Order Decay Rate Calculation

Facility Name: **North Brunsick Gulf**

Facility ID: _____

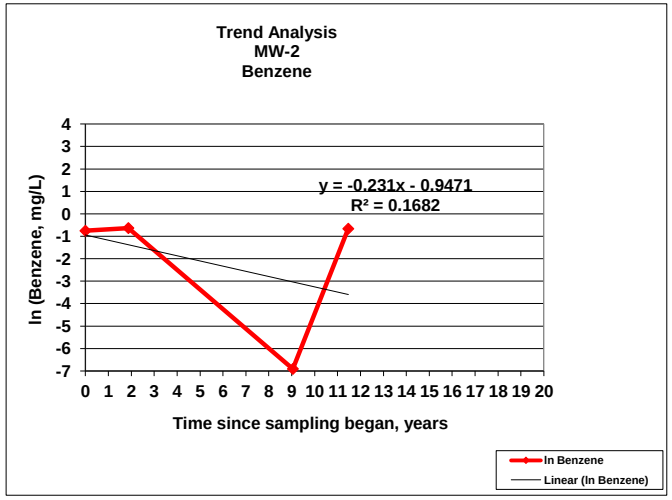
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 2 - side gradient downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-2 mg/L	Benzene MW-2 ug/L	ln Benzene MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.470	470	-0.755	0.00
10/19/09		0.530	530	-0.635	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.515	515	-0.664	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-2, Benzene				
Enter C_{CL}	⇨	**0.001**		
Enter C_o	⇨	**0.47**		
Enter k_{point}	⇨	**0.231**		
Time to reach cleanup level			**26.6**	**years**

15.13 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

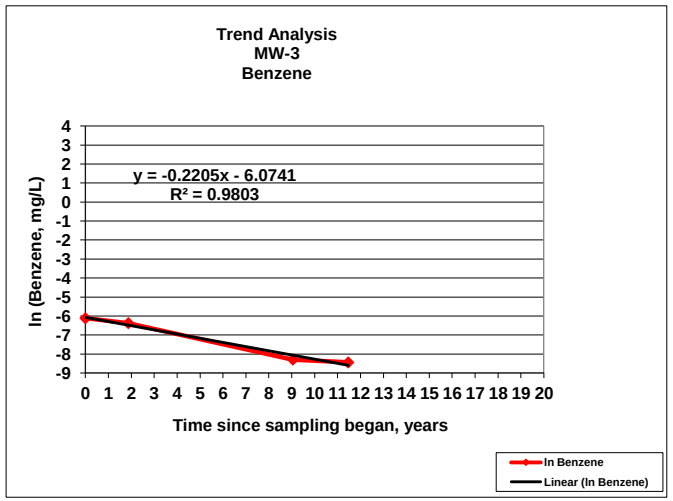
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 3 - downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-3 mg/L	Benzene MW-3 ug/L	ln Benzene MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0022	2.2	-6.119	0.00
10/19/09		0.0017	1.7	-6.377	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detects used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-3, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.0022		
Enter k_{point}	⇨	0.2205		
Time to reach cleanup level			3.6	years

Groundwater reached the cleanup level in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

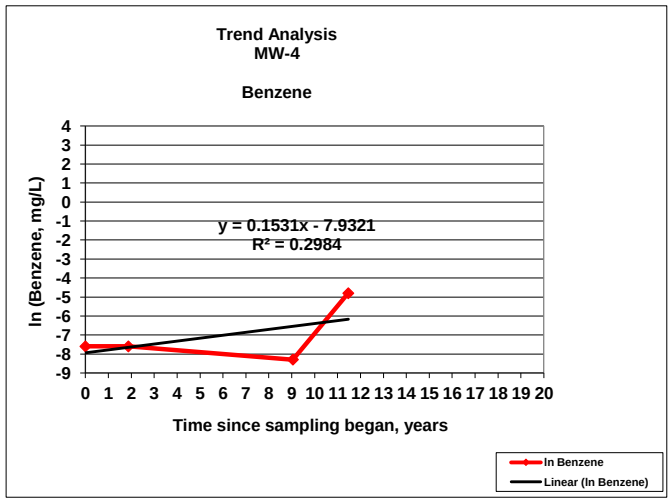
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswik, NJ

Date: 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 4 - downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-4 mg/L	Benzene MW-4 ug/L	ln Benzene MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.00050	<1.0	-7.601	0.00
10/19/09		0.00050	<1.0	-7.601	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.0082	8.2	-4.804	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detects used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-4, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.0005		
Enter k_{point}	⇨	0.1531		
Time to reach cleanup level			-4.5	years

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

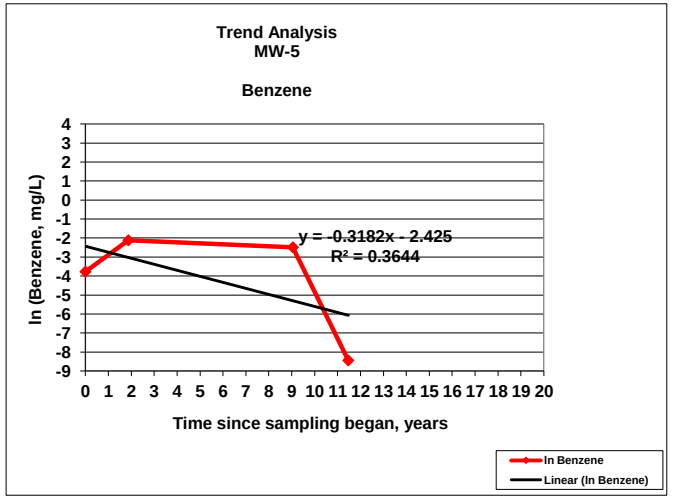
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-5 mg/L	Benzene MW-5 ug/L	ln Benzene MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.023	23	-3.772	0.00
10/19/09		0.120	120	-2.120	1.87
12/21/16		0.083	83	-2.489	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-5, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.023		
Enter k_{point}	⇨	0.3182		
Time to reach cleanup level			9.9	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

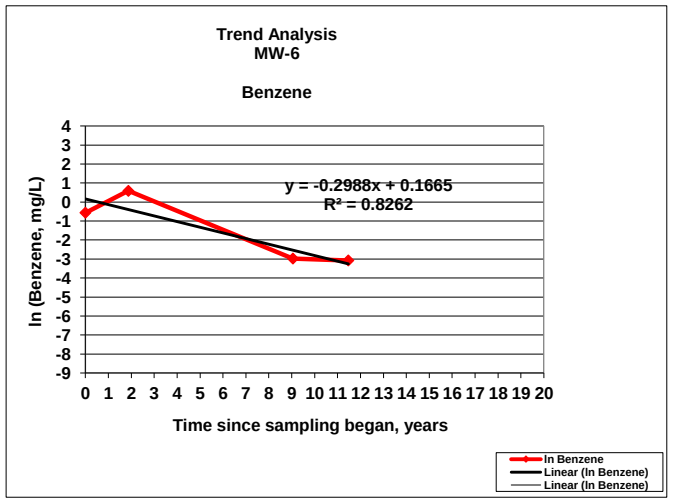
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 6 - side gradient

Sampling Date	Depth to Ground Water feet	Benzene MW-6 mg/L	Benzene MW-6 ug/L	ln Benzene MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.570	570	-0.562	0.00
10/19/09		1.800	1800	0.588	1.87
12/21/16		0.051	51	-2.976	9.05
5/22/19		0.0462	46.2	-3.075	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-6, Benzene				
Enter C_{CL}	⇨	**0.001**		
Enter C_o	⇨	**0.57**		
Enter k_{point}	⇨	**0.2988**		
Time to reach cleanup level			**21.2**	**years**

9.73 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

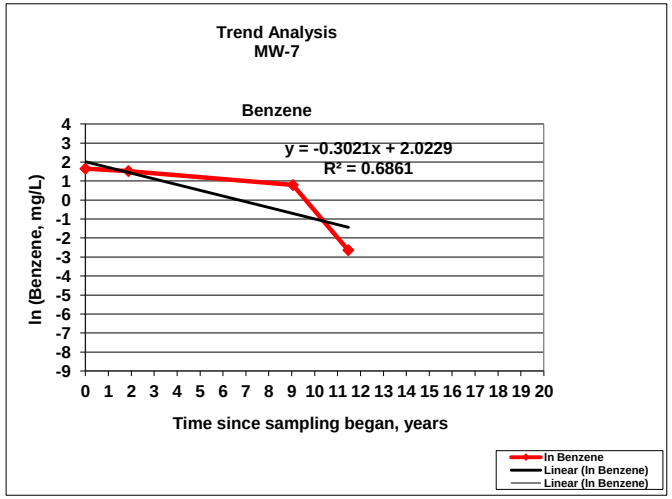
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	Benzene MW-7 mg/L	Benzene MW-7 ug/L	ln Benzene MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		5.200	5200	1.649	0.00
10/19/09		4.600	4600	1.526	1.87
12/21/16		2.200	2200	0.788	9.05
5/22/19		0.0715	71.5	-2.638	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-7, Benzene				
Enter C_{CL}	⇨	**0.001**		
Enter C_o	⇨	**5.2**		
Enter k_{point}	⇨	**0.3021**		
Time to reach cleanup level			**28.3**	**years**

16.83 more years to reach standard from 5/22/19

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

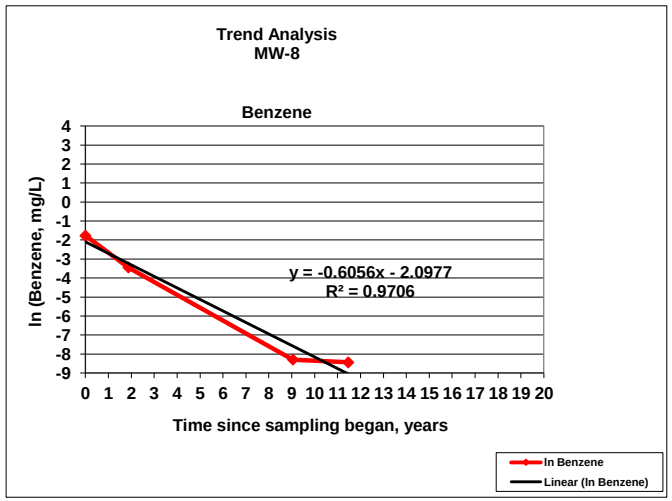
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	Benzene MW-8 mg/L	Benzene MW-8 ug/L	ln Benzene MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.170	170	-1.772	0.00
10/19/09		0.032	32	-3.442	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.000215	<0.43	-8.445	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-8, Benzene				
Enter C_{CL}	⇨	0.001		
Enter C_o	⇨	0.017		
Enter k_{point}	⇨	0.6056		
Time to reach cleanup level			4.7	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswwik Gulf**

Facility ID: _____

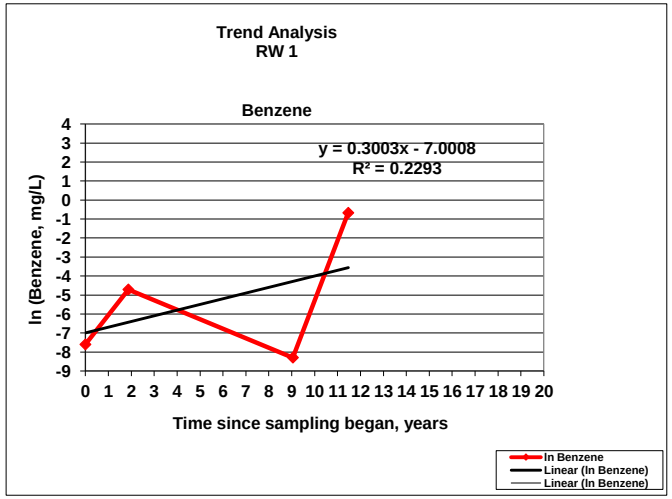
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): RW 1 near source

Sampling Date	Depth to Ground Water feet	Benzene RW-1 mg/L	Benzene RW-1 ug/L	ln Benzene RW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0005	<1	-7.601	0.00
10/19/09		0.009	9	-4.711	1.87
12/21/16		0.00025	<0.5	-8.294	9.05
5/22/19		0.510	510	-0.673	11.47
cleanup standard		*0.001*	*1*	*-6.907755279*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

RW 1, Benzene				
Enter C_{CL}	⇨	**0.001**		
Enter C_o	⇨	**0.0005**		
Enter k_{point}	⇨	**0.3003**		
Time to reach cleanup level			**-2.3**	**years**

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **Norht Brunswick Gulf**

Facility ID: _____

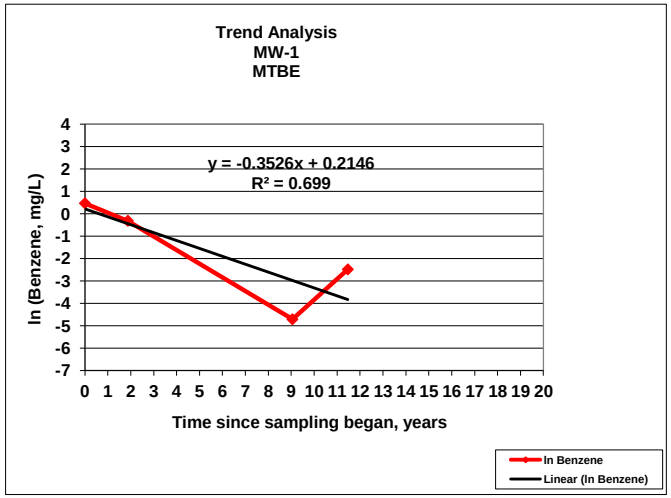
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 1 source

Sampling Date	Depth to Ground Water feet	MTBE MW-1 mg/L	MTBE MW-1 ug/L	ln MTBE MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		1.600	1600	0.470	0.00
10/19/09		0.730	730	-0.315	1.87
12/21/16		0.009	9	-4.711	9.05
5/22/19		0.0836	83.6	-2.482	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

⇨

Solutions ⇨

MW-1, MTBE			
Enter C_{CL}	**0.07**		
Enter C_o	**1.6**		
Enter k_{point}	**0.3526**		
Time to reach cleanup level		**8.9**	**years**

Groundwater will likley reach standard in next few years

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

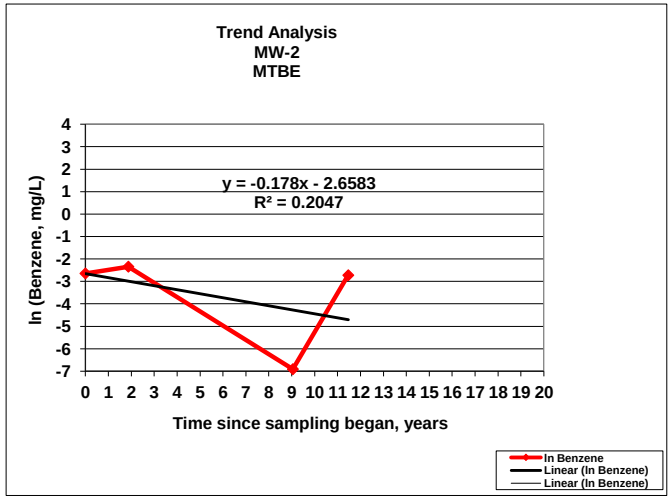
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	MTBE MW-2 mg/L	MTBE MW-2 ug/L	ln MTBE MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.071	71	-2.645	0.00
10/19/09		0.096	96	-2.343	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.0656	65.6	-2.724	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW 2 MTBE				
Enter C_{CL}	⇨	**0.07**		
Enter C_o	⇨	**0.071**		
Enter k_{point}	⇨	**0.178**		
Time to reach cleanup level			**0.1**	**years**

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

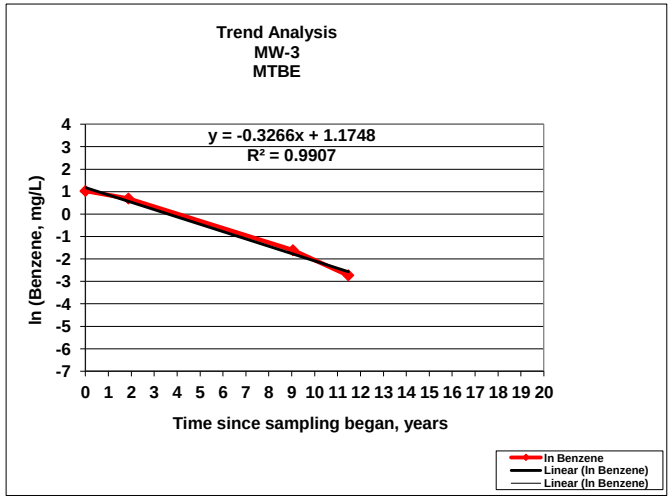
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	MTBE MW-3 mg/L	MTBE MW-3 ug/L	ln MTBE MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		2.800	2800	1.030	0.00
10/19/09		2.000	2000	0.693	1.87
12/21/16		0.200	200	-1.609	9.05
5/22/19		0.0654	65.4	-2.727	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-3, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	2.8		
Enter k_{point}	⇨	0.3266		
Time to reach cleanup level			11.3	years

Groundwater reached the standard in the last sample

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

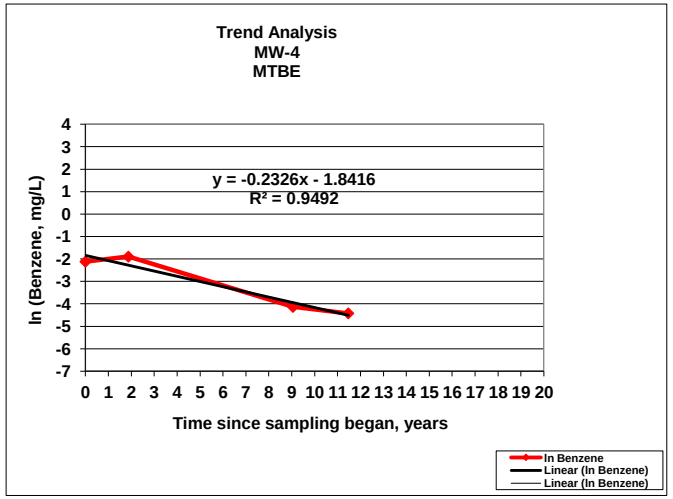
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): Downgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-4 mg/L	MTBE MW-4 ug/L	ln MTBE MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.120	120	-2.120	0.00
10/19/09		0.150	150	-1.897	1.87
12/21/16		0.016	16	-4.135	9.05
5/22/19		0.0120	12.3	-4.423	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-3, MTBE			
Enter C_{CL}	⇨	0.07	
Enter C_o	⇨	0.12	
Enter k_{point}	⇨	0.2326	
Time to reach cleanup level		2.3	years

Groundwater reached the standard in the last sample2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

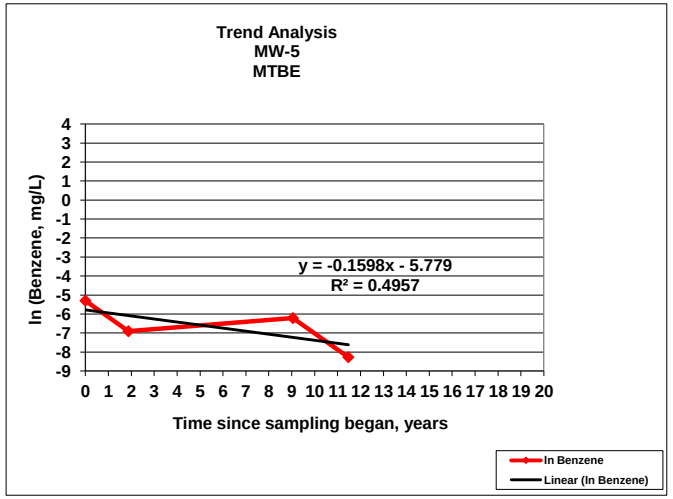
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-5 mg/L	MTBE MW-5 ug/L	ln MYBE MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.005	<10	-5.298	0.00
10/19/09		0.001	<2	-6.908	1.87
12/21/16		0.002	2	-6.215	9.05
5/22/19		0.000255	<0.51	-8.274	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-5, MTBE				
Enter C_{CL}	⇨	**0.07**		
Enter C_o	⇨	**0.005**		
Enter k_{point}	⇨	**0.1598**		
Time to reach cleanup level			**-16.5**	**years**

never was above cleanup standard of 70

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

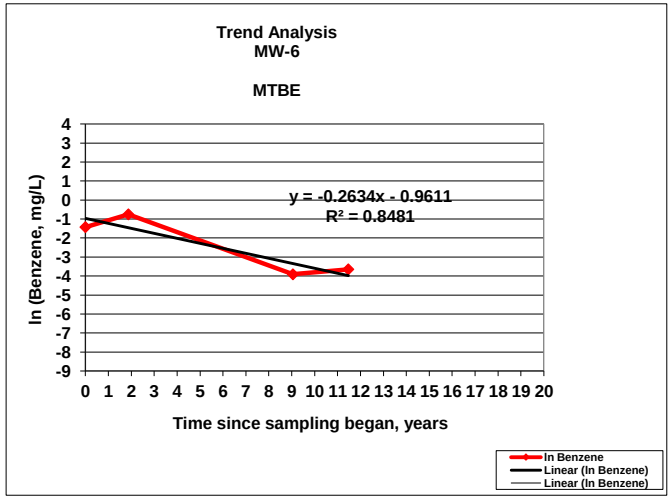
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 6 - side gradient

Sampling Date	Depth to Ground Water feet	MTBE MW-6 mg/L	MTBE MW-6 ug/L	ln MTBE MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.240	240	-1.427	0.00
10/19/09		0.470	470	-0.755	1.87
12/21/16		0.020	20	-3.912	9.05
5/22/19		0.026	26	-3.650	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-6, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.24		
Enter k_{point}	⇨	0.2634		
Time to reach cleanup level			4.7	years

Groundwater was below standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

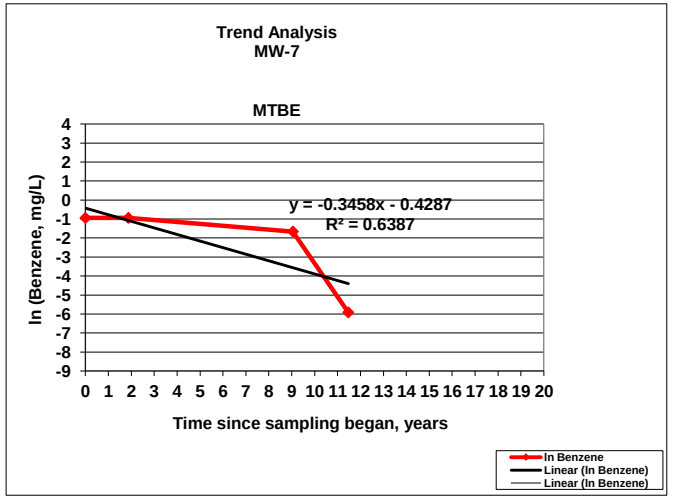
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	MTBE MW-7 mg/L	MTBE MW-7 ug/L	ln MTBE MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.390	390	-0.942	0.00
10/19/09		0.390	390	-0.942	1.87
12/21/16		0.190	190	-1.661	9.05
5/22/19		0.0027	2.7	-5.915	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-7, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.39		
Enter k_{point}	⇨	0.3458		
Time to reach cleanup level			5.0	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

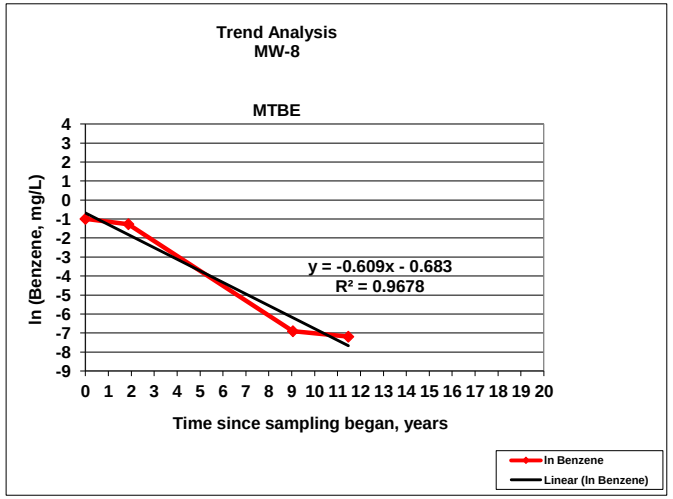
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	MTBE MW-8 mg/L	MTBE MW-8 ug/L	ln MTBE MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.370	370	-0.994	0.00
10/19/09		0.280	280	-1.273	1.87
12/21/16		0.001	1	-6.908	9.05
5/22/19		0.00075	0.75	-7.195	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-8, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.37		
Enter k_{point}	⇨	0.609		
Time to reach cleanup level			2.7	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

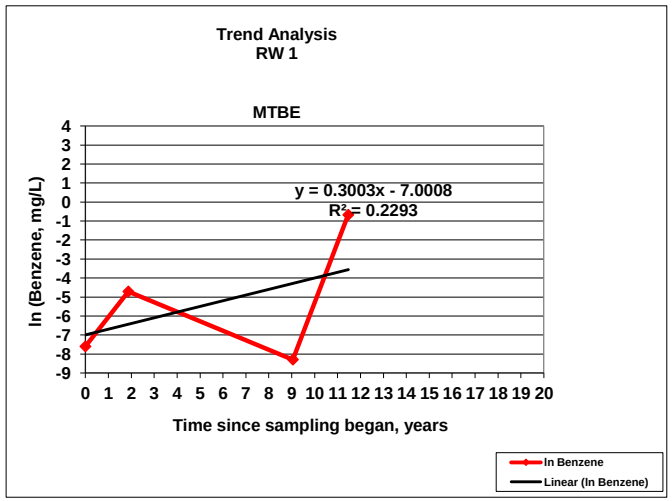
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): RW 1 near source

Sampling Date	Depth to Ground Water feet	MTBE RW 1 mg/L	MTBE RW 1 ug/L	ln MTBE RW 1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.0005	<1	-7.601	0.00
10/19/09		0.009	9	-4.711	1.87
12/21/16		0.000	<0.5	-8.294	9.05
5/22/19		0.510	510	-0.673	11.47
cleanup standard		*0.07*	*70*	*-2.659260037*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-8, MTBE				
Enter C_{CL}	⇨	0.07		
Enter C_o	⇨	0.0005		
Enter k_{point}	⇨	0.003		
Time to reach cleanup level			-1647.2	years

Not applicable because concentrations increased

First-Order Decay Rate Calculation

Facility Name: **Norht Brunswick Gulf**

Facility ID: _____

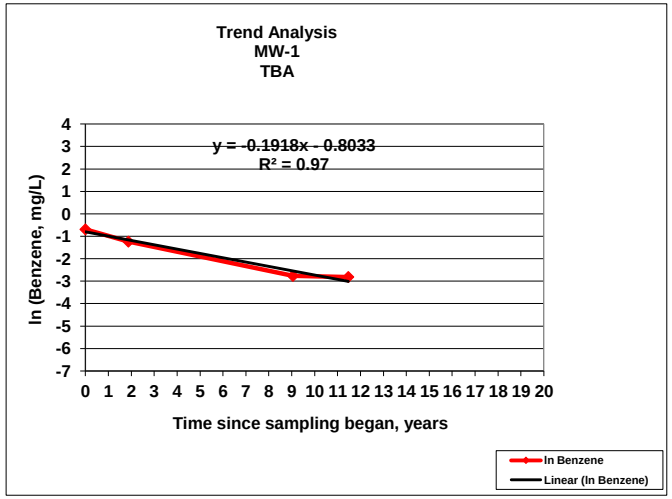
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 1 source

Sampling Date	Depth to Ground Water feet	TBA MW-1 mg/L	TBA MW-1 ug/L	ln TBA MW-1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.500	<1000	-0.693	0.00
10/19/09		0.290	290	-1.238	1.87
12/21/16		0.063	63	-2.765	9.05
5/22/19		0.060	<120	-2.813	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-1, TBA				
Enter C_{CL}	⇨	**0.1**		
Enter C_o	⇨	**0.5**		
Enter k_{point}	⇨	**0.1918**		
Time to reach cleanup level			**8.4**	**years**

Groundwater may be below the standard

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

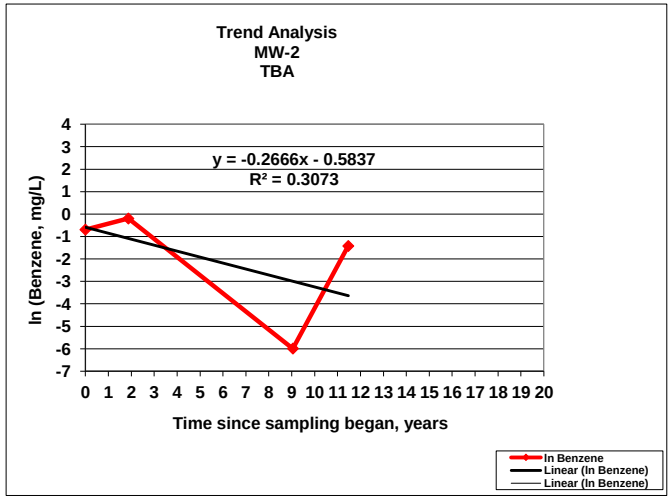
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____

Sampling Date	Depth to Ground Water feet	TBA MW-2 mg/L	TBA MW-2 ug/L	ln TBA MW-2 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.500	<1000	-0.693	0.00
10/19/09		0.820	820	-0.198	1.87
12/21/16		0.0025	<5	-5.991	9.05
5/22/19		0.2410	241	-1.423	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW 2 TBA			
Enter C_{CL}	⇨	0.1	
Enter C_o	⇨	0.5	
Enter k_{point}	⇨	0.2666	
Time to reach cleanup level		6.0	years

Groundwater will likely reach standard in next few years

First-Order Decay Rate Calculation

Facility Name: Example from EPA Issue Paper (Newell, Rifai Wilson, Connor, Aziz and Suarez, November 2002)

Facility ID: _____

Release ID: _____

Facility Location and Address: _____

Date: _____

Type of cleanup system: _____

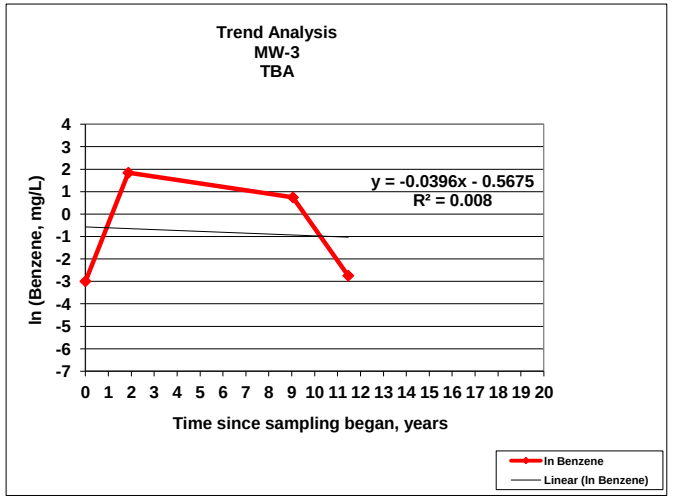
State Project Manager: _____

Dates of cleanup system operation: _____

Effectiveness of cleanup system for contaminant mass removal: _____

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): _____Down graadient_____

Sampling Date	Depth to Ground Water feet	TBA MW-3 mg/L	TBA MW-3 ug/L	ln TBA MW-3 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		6.300	6300	1.841	1.87
12/21/16		2.100	2100	0.742	9.05
5/22/19		0.0643	64.3	-2.744	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-3, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.0396		
Time to reach cleanup level			-17.5	years

Groundwater reached standard in the last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

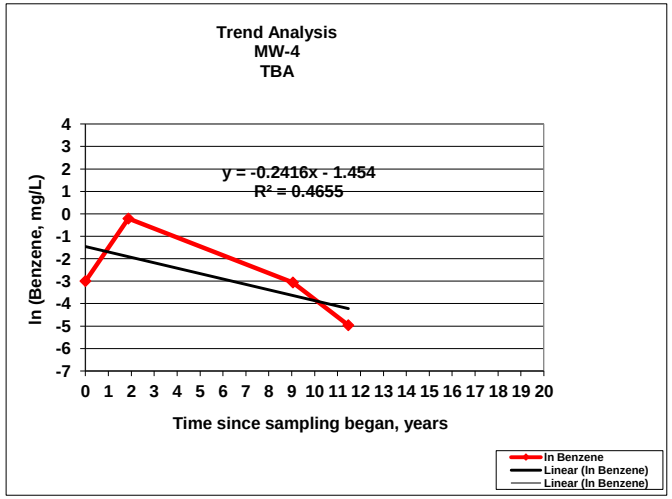
Release ID: _____

Facility Location and Address: ___ 1696 Georges RD RT 130 North Brunswick, NJ

Date: 7/10/19

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): __MW 4 downgradient_____

Sampling Date	Depth to Ground Water feet	TBA MW-4 mg/L	TBA MW-4 ug/L	ln TBA MW-4 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.810	810	-0.211	1.87
12/21/16		0.047	47	-3.058	9.05
5/22/19		0.007	7	-4.962	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-4, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.4655		
Time to reach cleanup level			-1.5	years

Groundwater reached the standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

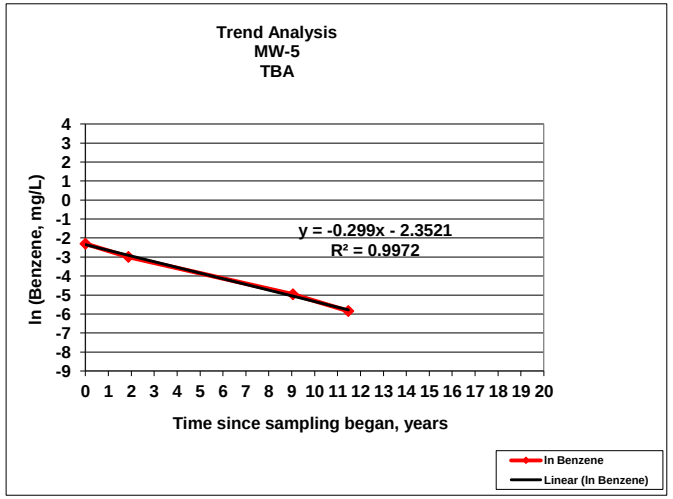
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	TBA MW-5 mg/L	TBA MW-5 ug/L	ln TBA MW-5 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.100	<200	-2.303	0.00
10/19/09		0.050	<100	-2.996	1.87
12/21/16		0.007	7	-4.962	9.05
5/22/19		0.0029	<5.8	-5.843	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-5, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.1		
Enter k_{point}	⇨	0.299		
Time to reach cleanup level			0.0	years

Groundwater reached standard in last 3 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

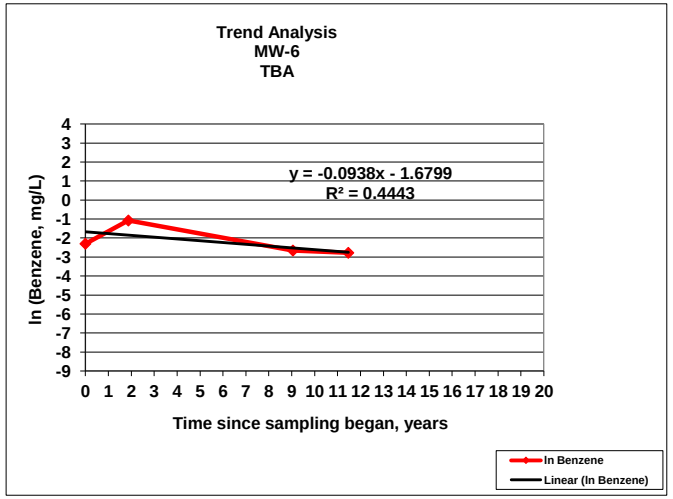
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 5 - upgradient

Sampling Date	Depth to Ground Water feet	TBA MW-6 mg/L	TBA MW-6 ug/L	ln TBA MW-6 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.100	<200	-2.303	0.00
10/19/09		0.340	340	-1.079	1.87
12/21/16		0.070	70	-2.659	9.05
5/22/19		0.0620	62	-2.781	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-6, TBA			
Enter C_{CL}	⇨	0.1	
Enter C_o	⇨	0.1	
Enter k_{point}	⇨	0.0938	
Time to reach cleanup level		0.0	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

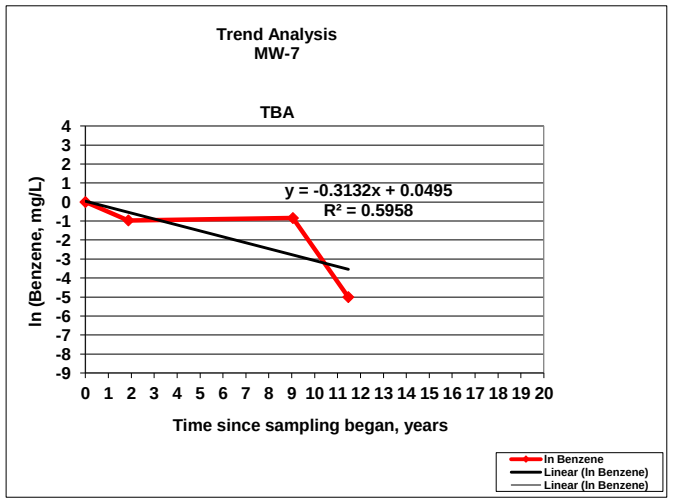
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd RT 130 North Brunswick, Nj

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 7 - side gradient

Sampling Date	Depth to Ground Water feet	TBA MW-7 mg/L	TBA MW-7 ug/L	ln TBA MW-7 mg/L	Elapsed time since 12/5/07 years
12/5/07		1	<2000	0.000	0.00
10/19/09		0.380	380	-0.968	1.87
12/21/16		0.430	430	-0.844	9.05
5/22/19		0.0067	6.7	-5.006	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-7, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	1		
Enter k_{point}	⇨	0.3132		
Time to reach cleanup level			7.4	years

Groundwater reached standard in last sample

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

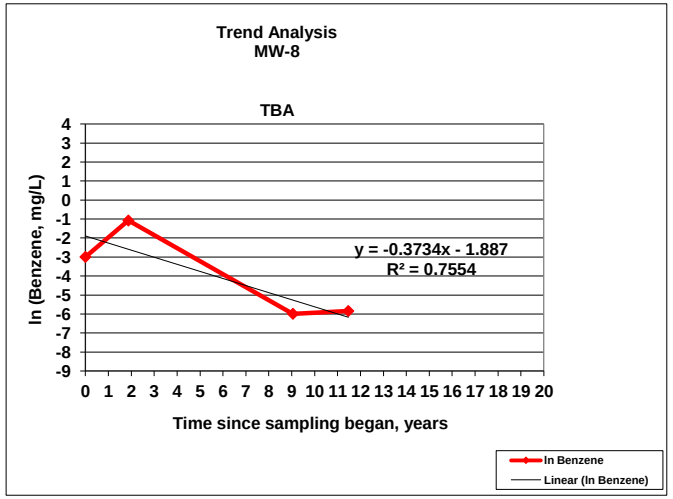
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	TBA MW-8 mg/L	TBA MW-8 ug/L	ln TBA MW-8 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.340	340	-1.079	1.87
12/21/16		0.0025	<5	-5.991	9.05
5/22/19		0.0029	<5.8	-5.843	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, years^{-1}

= slope of the line, y

Solutions

MW-8, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.3734		
Time to reach cleanup level			-1.9	years

Groundwater reached standard in last 2 samples

First-Order Decay Rate Calculation

Facility Name: **North Brunswick Gulf**

Facility ID: _____

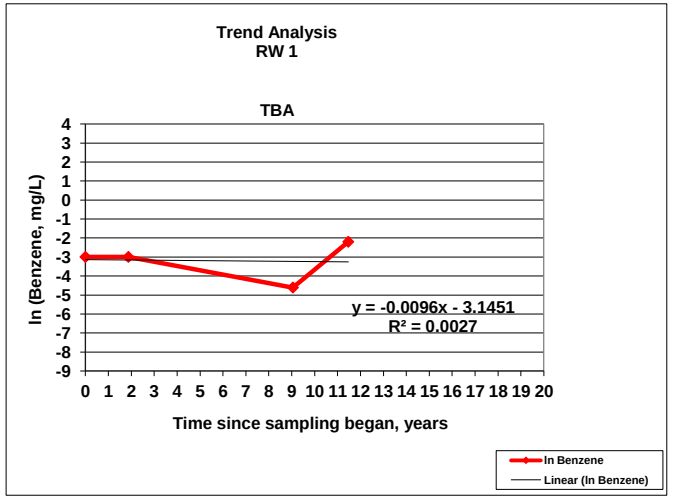
Release ID: _____

Facility Location and Address: ___ 1696 Georges Rd Rt 130 North Brunswick, NJ

Date: 7/10/2019

Location of well (source area, down-gradient, perimeter or cross-gradient, in ROI of cleanup system, other): MW 8 downgradient

Sampling Date	Depth to Ground Water feet	TBA RW 1 mg/L	TBA RW 1 ug/L	ln TBA RW 1 mg/L	Elapsed time since 12/5/07 years
12/5/07		0.050	<100	-2.996	0.00
10/19/09		0.050	<100	-2.996	1.87
12/21/16		0.010	10	-4.605	9.05
5/22/19		0.111	111	-2.198	11.47
cleanup standard		*0.1*	*100*	*-2.302585093*	
For non-detected used detection level divided by 2 as the value					



Formula

$t = -[\ln(C_{CL}/C_o)] / k_{point}$

where:

t = Time to achieve cleanup levels, years

C_{CL} = Cleanup level for contaminant of concern, mg/L

C_o = Initial concentration of contaminant of concern, mg/L

k_{point} = First-order decay rate constant at one monitoring point, $years^{-1}$

= slope of the line, y

Solutions

MW-8, TBA				
Enter C_{CL}	⇨	0.1		
Enter C_o	⇨	0.05		
Enter k_{point}	⇨	0.0096		
Time to reach cleanup level			-72.2	years

Not applicable because concentrations increased

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County Health Department
35 Kennedy Blvd..
East Brunswick, New Jersey 08816
Attn: Lester Jones - Director

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 RT 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Jones:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Map

Cc:
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker

North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County Administration Bldg.
1st Floor
75 Bayard St.
New Brunswick, New Jersey 08901
Attn: Elaine Flynn - Clerk

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Flynn:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Dept.: Lester Jones
Middlesex County Office of Planning: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Middlesex County
Office of Planning
5th Floor
75 Bayard St.
New Brunswick, New Jersey 08901
Attn: Mirah Becker

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms Becker:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project are listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc:

Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Municipal Building
710 Hermann Road
North Brunswick, New Jersey 08902
Attn: Lisa Russo - Municipal Clerk

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Russo

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano

North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Municipal Building
710 Hermann Road
North Brunswick, New Jersey 08902
Attn: Nick DeStefano -Health Officer

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. DeSefano

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Municipal Clerk: Lisa Russo

North Brunswick Department of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

North Brunswick Twp.
Department of Public Works
45 Quarry Lane
North Brunswick, New Jersey 08902
Attn: Eric Chaszar - Director

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Chaszar

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC. is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Beker

North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Dept. of Public Works: Eric Chaszar
New Jersey Department of Transportation: Dianne Scaccetti
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19

Sent Via US Mail

NJ Department of Transportation
Davis Goldberg Complex
1035 Parkway Avenue
Trenton, NJ 08625
Attn: Dianne Scaccetti: Commissioner

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 RT 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Ms. Scaccetti:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and heating oil type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figures provide information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn
Middlesex County Planning Board: Mirah Becker
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Health Officer: Nick DeStefano
North Brunswick Department of Public Works: Eric Chaszar
Thomas Csepes: Property within CEA boundary
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp: Ted Owens: tenant
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Brunswick Auto Craft.
1696 Georges Rd
North Brunswick, NJ 08902

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Sir:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn

Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp.: Ted Cohen tenant
Hare Krishna Fuel, Inc: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Hare Krishna Fuel.
1696 Georges Rd RT 130
North Brunswick, NJ 08902

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Sir:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones
Middlesex County Clerk: Elaine Flynn

Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Petroleum Supply Corp.: Ted Cohen tenant
Brunswick Auto craft: tenant

On-Site Environmental, Inc.

Consulting Assessment Remediation

9/16/19 Sent Via US mail

Petroleum Supply Corp.
3701 Bedford Ave.
Brooklyn, NY 11229
Attn: Ted Cohen

Ref: Groundwater Classification Exception Area Notification
Lawrence Fuel LLC, AKA 1696 Rt 130, LLC, AKA North Brunswick Gulf
1696 Georges Rd RT 130
North Brunswick, NJ
Block 282 Lot 1
NJDEP PI # 010180
NJDEP Case #: 01-08-30-1546-07 & 01-08-30-1549-55 & 19-05-08-1010-08

Dear Mr. Cohen:

In accordance with the New Jersey Department of Environmental Protection's (NJDEP's) Administrative Requirements for the Remediation of Contaminated Sites (ARRCS, N.J.A.C. 7:26C-7.3[d], On-Site Environmental, Inc. (On-Site) on behalf of 1696 RT 130 LLC is providing you notification of the intent to establish a groundwater Classification Exception Area (CEA) at the above referenced property and your property due to the presence of impacted groundwater.

The CEA is being established due to the presence of gasoline and petroleum type compounds detected in the groundwater that are above the NJDEP ground water quality standards. The enclosed CEA Fact Sheet and figure provides information regarding the location of the CEA and contaminant concentrations.

Contact information for the responsible party and the Licensed Site Remediation Professional (LSRP) overseeing the project is listed below:

Responsible party: 1696 RT 130 LLC	LSRP ID#:585751
Representative: Mr. Walter Lapp	LSRP Name: Frank Jasiulewicz
Mailing address: 555 Georges Rd Dayton, NJ 08810	Mailing Address: 119 Shepherds Way Coatesville, Pa. 19320
Phone #: 732-710-7209	Phone #: 610-384-2719
Email: lapphouse@verizon.net	Email: onsitefj@aol.com

If you have any questions, please feel free to contact me at 610-384-2719 or by email at onsitefj@aol.com.

Sincerely,

Frank Jasiulewicz, P.G. , SSE, LSRP
On-Site Environmental, Inc.
President

Attachments: CEA Fact Sheet
Location & CEA Maps

Cc: Middlesex County Health Department: Lester Jones

Middlesex County Clerk: Elaine Flynn
Middlesex County Health Act Agency
Middlesex County Planning Board: Mirah Becker
North Brunswick Health Officer: Nick DeStefano
North Brunswick Municipal Clerk: Lisa Russo
North Brunswick Public Works Dept: Eric Chaszar
New Jersey Department of Transportation: Dianne Scacetti
Walter Lapp: Owner of NBG site: via email
Ruth Frey: Owner of NBG site: via email
Brunswick Auto Craft: tenant
Hare Krishna Fuel, Inc: tenant