

August 7, 2018

Steve Keith
Milwaukee County Department of Administrative Services
633 W Wisconsin Ave. Suite 1003
Milwaukee, Wisconsin 53203
stevan.keith@milwaukeecountywi.gov

RE: Groundwater Sampling and Testing
Former Allis Chalmers Landfill
11815 West Morgan Avenue
Greenfield, Wisconsin

Dear Mr. Keith:

The Reese Group, LLC (TRG) is pleased to submit this letter report to the Milwaukee County, Department of Administrative Services for professional consulting services at the Former Allis Chalmers Landfill located at 11815 West Morgan Avenue, Greenfield, Wisconsin. The following sections include a discussion of the Site background, a summary of prior investigations and site assessments performed at the Property, an inventory of existing monitoring well conditions, a discussion on methods of investigation, and a summary of results for groundwater samples collected from monitoring wells across the Site.

### 1.0 SITE BACKGROUND

The site is located at 11815 W Morgan Ave at the southwest corner of 116<sup>th</sup> Street and Morgan Ave in Greenfield, Wisconsin. The Site is generally located in the SW ¼ of Section 18, Range 21E, Township 6N. Site location is depicted on a United States Geologic Service (USGS) topographic map included as **Figure 1**.

Historically, the Site was owned by Price Sand and Gravel and operated as a sand and gravel mine prior to 1964. In 1964, the Allis Chalmers Corporation purchased the property for use as a foundry sand landfill. The landfill also accepted limited demolition debris and liquid foundry wastes. The Allis Chalmers Landfill was a WDNR-licensed (#293), solid waste facility that could accept foundry sand and other non-combustible inert materials. In 1998, Cuywreco, Inc., of Melrose Park, Illinois, purchased the property and capped the foundry sand landfill with a thin layer of clay soil. The Site is currently closed.

In 2017, Milwaukee County acquired the Property through tax delinquency. On March 28, 2018, the Wisconsin Department of Natural Resources conducted a compliance inspection of



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the closed landfill. The inspection indicated that the landfill was not in compliance with the solid waste closed landfill requirements of Chapters NR 500 to 538 of the Wisconsin Administrative Code (WAC) or Wisconsin Statutes section 289. The WDNR issued a Notice of Noncompliance (NON) for the closed landfill on April 18, 2018.

### **Scope of Work**

The primary purpose of this groundwater sampling investigation was to address items 1a through 1f listed in the Landfill Closure Plan section of the NON. The proposed scope of work included:

- Reviewing documents from prior investigations and site assessments to understand well locations and well construction, depth, etc.
- Meet with Milwaukee County staff.
- Assess the condition of each well and determine its suitability for future use; Identify any needed repairs.
- Re-develop seven (7) existing wells in accordance with Ch. NR 141.21 of the WAC.
- Sample groundwater at all seven (7) wells and analyze (field and laboratory) for select parameters including:
  - Alkalinity
  - Chemical Oxygen Demand (COD)
  - Conductivity
  - o pH
  - o Temperature
  - o Fluoride
  - Groundwater elevation
  - Hardness
  - o Sodium
  - VOCs per Appendix III of Ch. NR 507 WAC
- Abandon one (1) temporary well.
- Properly dispose of purge water.
- Preparation of a letter report that summarizes the results of the sampling event.



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### 2.0 PREVIOUS INVESTIGATIONS

### Graef, Anhalt, Schloemer & Associates, Inc.

In 1999, Graef, Anhalt, Schloemer & Associates, Inc. (GAS) conducted soil and groundwater investigations at the Site. The investigations consisted of the collection of soil samples from 14 test trenches and groundwater samples collected from on-site MWs. The samples were analyzed for diesel range organics (DRO), gasoline range organics (GRO), metals, pesticides, polychlorinated biphenyls (PCBs), base/neutral acid compounds, and volatile organic compounds (VOCs). Results from the investigation indicated elevated concentrations of metals and VOCs in groundwater.

In 2002, GAS conducted additional investigations to determine the thickness and total depth of foundry sand deposits at the Site. Forty-one (41) soil borings were advanced to native soils below the foundry sand fill. Foundry sand was encountered in soil borings at depths ranging to 35 ft below ground surface (bgs).

### **AMEC**

AMEC conducted a Site investigation in two phases between June and August 2007. The investigation included the excavation of 34 test pits, advancement of 18 soil borings, and sampling and analysis of soil samples from the test pits and soil borings. AMEC also sampled groundwater and soil vapor through temporary monitoring wells installed at various locations across the Site. The groundwater sampling consisted of eleven monitoring wells (MW-A through MW-K), and groundwater samples were collected on two separate occasions in July and August 2007. The results of groundwater sampling indicated several regulatory exceedances for VOCs at monitoring wells MW-B, MW-G, MW-H, MW-I, MW-J, and TW-SB-11. Relatively low-level SVOCs were detected at two monitoring locations (MW-C and TW-SB-9). Additionally, several metals were detected in all the groundwater samples collected. Arsenic exceeded the Preventive Action Limits (PAL) at multiple monitoring locations, and lead exceeded the PAL at TW-SB-9. Zinc exceeded the Enforcement Standard (ES) at six monitoring locations and the PAL at two additional monitoring wells.

### 3.0 MONITORING WELL INVENTORY AND INSPECTION

The landfill monitoring wells were inspected on July 3, 2018. Well inspection observations and comments were recorded on the WDNR Groundwater Monitoring Well Inspection Checklist for Landfills for each groundwater monitoring well location. The inspection forms



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are contained in **Appendix A**. In general, the wells were in good condition with the following exceptions:

- The wells were not clearly labeled; the wells did not have a unique well number label attached to them.
- The protective cover pipe inhibits the well from being closed and locked at monitoring location MW-C.
- Neither soil nor clay are mounded over the seal to shed water away from the well.
- Monitoring well, MW-C, has moved from its original position heaved.

### Recommendations:

- Determine if the well(s) have been assigned a Wisconsin Unique Well Number.
- Repair/reinstall monitoring location MW-C.
- Rehabilitate or replace monitoring location MW-F.
- Mound clay over the seal of each well to ensure water is directed away from the well.
- Resurvey all the wells to verify "Top of Casing" and "Ground Surface Elevation" at each location.

### 4.0 METHODS OF INVESTIGATION

Well Development - The monitoring well development consisted of surging and purging each of the monitoring wells with a 1 ½" bailer for a duration of 30 minutes to move formation water in and out of the well screens. After the final surge and purge cycle was completed, each well was evacuated until 10 well volumes of water were removed or until the well purged dry. The monitoring wells were purged and sampled with a peristaltic pump and dedicated poly tubing at each well location. The purge water was discharged at the point of generation at each monitoring well location with approval from David Buser from the Wisconsin Department of Natural Resources (Email Communication, July 6, 2018).



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**Water Level Elevation Measurements** - Water level and well depth measurements were obtained using a Solinst water level indicator probe.

Water Quality Parameters - Water quality parameters including pH, dissolved oxygen (DO), specific conductivity (SC), and oxidation-reduction potential (ORP) were measured at each sample location using a YSI 556 water quality meter. The water quality meter was calibrated according to manufacturers specifications and recorded in the field log book prior to sampling.

**Decontamination** - The Solinst water level indicator, YSI 556 water quality meter, and flow-through cell used to collect groundwater samples were decontaminated with a solution of Alconox and deionized water rinse in between monitoring well locations.

**Groundwater Sample Collection** - Groundwater samples were collected in appropriate laboratory-supplied containers and properly preserved, where required, and immediately placed on ice in a cooler for shipment to the laboratory (CT Laboratories, LLC, Baraboo, WI). Groundwater samples were analyzed for alkalinity, COD, fluoride, hardness, sodium, and VOCs.

Groundwater samples were collected from each of the monitoring wells except for monitoring well MW-F, which purged dry and did not recover sufficiently within 24 hours to collect the groundwater sample. TRG returned to the Site 24 hours after redevelopment to try for a second time to sample the well without success. Additionally, TRG personnel observed small black solids, that were accumulated in MW-F creating an obstruction which prevented groundwater sample collection.

**Temporary Monitoring Well Abandonment** - One ¾" polyvinylchloride (PVC) temporary gas probe (VP-10) located in the west-central portion of the Site was abandoned with 3/8" bentonite chips in accordance with NR 141.25 WAC. A Well/Drillhole/Borehole Filling & Sealing Report (Form 3300-005 [R 4/2015]) is included in **Appendix D**.

### **GROUNDWATER MONITORING RESULTS**

The locations of the monitoring wells (MW-A through MW-F, and MW-K) are depicted on a detailed site map included as **Figure 2**. The results of laboratory analysis of groundwater samples collected at the Site are summarized in **Table 1**. Field water quality measurements and observations are included in **Table 2**. Groundwater elevation contours for groundwater measurements obtained on July 9, 2018 are depicted on **Figure 3**. Groundwater analytical results for groundwater samples collected at each monitoring location are illustrated on **Figure 4**. Laboratory analytical reports are included as **Appendix B**. Photographic



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documentation of the monitoring well inspection and groundwater sampling conducted on Site is included in **Appendix C**.

The water table configuration for July 9, 2018, is presented on **Figure 3**. The apparent flow direction for shallow groundwater is toward the east. Please note that the groundwater elevation data was calculated using historical top-of-casing data. The general configuration of the water table and inferred groundwater flow direction are consistent with previous groundwater measurements. However, in *Section 3.0 Monitoring Well Inventory and Inspection* it is recommended that the "Top of Casing" and "Ground Surface Elevation" at each location be re-surveyed to verify the historical top-of-casing data is accurate.

VOCs were detected at one monitoring well location, MW-E, which included a WDNR NR 141 ES exceedance for vinyl chloride. Carbon disulfide and chloroethane were also detected at MW-E, but below their applicable regulatory standards.

For the indicator parameters sampled:

- Total alkalinity ranged from 430 to 840 mg/L.
- Total COD ranged from non-detection at MW-A to 100 mg/L at MW-C.
- Fluoride was detected at all monitoring well locations, and exceeded the PAL at MW-D and the ES at MW-B.

Please contact me at 414-326-4875 or <a href="mailto:treese@the-reese-group.com">treese@the-reese-group.com</a> if you have any questions or require additional information regarding our submission.

Sincerely,

THE REESE GROUP, LLC

Christine A Reese, P.G.

President



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### **TABLES**

Table 1 – Groundwater Monitoring Results

Table 2 – Field Water Quality Measurements and Observations

### Table 1 Groundwater Analytical Data Former Allis Chalmers Landfill 11815 W Morgan Ave, Greenfield, WI

			organ Ave, G		T	1			1
Monitoring Well Location	Enforcement	Preventive Action	Α	В	С	D	Е	F	K
Sample ID:	Standard	Limit	MW-A-GW	MW-B-GW	MW-C-GW	MW-D-GW	MW-E-GW	NS	MW-K-GW
Constituent			7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018
Volatile Organic Compounds (ug/L		7	0.00	0.00	0.00	0.00	0.00	NO	0.00
1,1,1,2-Tetrachloroethane 1,1,1-Trichloroethane	70 200	7 40	<0.60 <0.50	<0.60 <0.50	<0.60 <0.50	<0.60 <0.50	<0.60 <0.50	NS NS	<0.60 <0.50
1,1,2,2-Tetrachloroethane	0.2	0.02	<0.70	<0.70	<0.70	<0.70	<0.70	NS	<0.70
1,1,2-Trichloroethane	5	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
1,1-Dichloroethane	850	85	<0.30	<0.30	<0.30	<0.30	<0.30	NS	<0.30
1,1-Dichloroethene	7 NE	0.7 NE	<0.40 <0.70	<0.40 <0.70	<0.40 <0.70	<0.40 <0.70	<0.40 <0.70	NS NS	<0.40 <0.70
1,1-Dichloropropene 1,2,3-Trichlorobenzene	NE NE	NE NE	<0.70	<0.70	<0.70	<0.70	<0.70	NS NS	<0.70
1,2,3-Trichloropropane	60	12	<0.60	<0.60	<0.60	<0.60	<0.60	NS	<0.60
1,2,4-Trichlorobenzene	70	14	<0.50	<0.50	<0.50	<0.50	<0.50	NS	<0.50
1,2,4-Trimethylbenzene	480	96	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
1,2-Dibromo-3-Chloropropane	0.2 0.05	0.02 0.005	<0.70 <0.60	<0.70 <0.60	<0.70	<0.70	<0.70 <0.60	NS NS	<0.70 <0.60
1,2-Dibromoethane 1,2-Dichlorobenzene	600	60	<0.60	<0.60	<0.60 <0.60	<0.60 <0.60	<0.60	NS NS	<0.60
1,2-Dichloroethane	5	0.5	<0.26	<0.26	<0.26	<0.26	<0.26	NS	<0.26
1,2-Dichloropropane	5	0.5	<0.40	<0.40	< 0.40	<0.40	<0.40	NS	<0.40
1,3,5-Trimethylbenzene	480	96	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
1,3-Dichlorobenzene 1,3-Dichloropropane	600 NE	120 NE	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	NS NS	<0.50 <0.50
1,4-Dichlorobenzene	75	15	<0.50	<0.60	<0.60	<0.50	<0.50	NS NS	<0.60
2,2-Dichloropropane	NE	NE	<0.50	<0.50	<0.50	<0.50	<0.50	NS	< 0.50
2-Butanone	4000	800	<4.0	<4.0	<4.0	<4.0	<4.0	NS	<4.0
2-Chlorotoluene	NE NE	NE NE	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
2-Hexanone 4-Chlorotoluene	NE NE	NE NE	<7.0 <0.40	<7.0 <0.40	<7.0 <0.40	<7.0 <0.40	<7.0 <0.40	NS NS	<7.0 <0.40
4-Methyl-2-pentanone	500	50	< 6.0	< 6.0	< 6.0	< 6.0	< 6.0	NS NS	< 6.0
Acetone	9000	1800	<9.0	<9.0	<9.0	<9.0	<9.0	NS	<9.0
Benzene	5	0.5	<0.24	<0.24	<0.24	<0.24	<0.24	NS	<0.24
Bromobenzene	NE	NE NE	<0.60	<0.60	<0.60	<0.60	<0.60	NS	<0.60
Bromochloromethane Bromodichloromethane	NE 0.6	NE 0.06	<0.80 <0.40	<0.80 <0.40	<0.80 <0.40	<0.80 <0.40	<0.80 <0.40	NS NS	<0.80 <0.40
Bromoform	4.4	0.44	<0.70	<0.70	<0.70	<0.70	<0.70	NS	<0.70
Bromomethane	10	1	<0.70	<0.70	<0.70	<0.70	<0.70	NS	<0.70
Carbon disulfide	1000	200	<0.50	<0.50	<0.50	<0.50	5.2	NS	< 0.50
Carbon tetrachloride	5	0.5 20	<0.50 <0.50	<0.50 <0.50	<0.50	< 0.50	<0.50 <0.50	NS NS	<0.50 <0.50
Chlorobenzene Chloroethane	100 400	80	<0.50	<0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <b>1.5</b>	NS NS	<0.50
Chloroform	6	0.6	<0.30	<0.30	<0.30	<0.30	<0.30	NS	<0.30
Chloromethane	30	3	<0.70	<0.70	<0.70	<0.70	<0.70	NS	<0.70
cis-1,2-Dichloroethene	70	7	<0.30	<0.30	<0.30	<0.30	<0.30	NS	<0.30
cis-1,3-Dichloropropene Dibromochloromethane	NE 60	NE 6	<0.40 <0.40	<0.40 <0.40	<0.40 <0.40	<0.40 <0.40	<0.40 <0.40	NS NS	<0.40 <0.40
Dibromomethane	NE	NE	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
Dichlorodifluoromethane	1000	200	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
Diisopropyl ether	NE	NE	<0.29	<0.29	<0.29	<0.29	<0.29	NS	<0.29
Ethylbenzene	700	140	<0.30	<0.30	<0.30	<0.30	<0.30	NS	<0.30
Hexachlorobutadiene	NE NE	NE NE	<0.90 <0.40	<0.90 <0.40	<0.90 <0.40	<0.90 <0.40	<0.90 <0.40	NS NS	<0.90 <0.40
Isopropylbenzene m&p-Xylene	2000	400	<0.40	<0.40	<0.40	<0.40	<0.40	NS NS	<0.40
Methyl tert-butyl ether	60	12	<0.30	<0.30	<0.30	<0.30	<0.30	NS	< 0.30
Methylene Chloride	5	0.5	<0.50	<0.50	< 0.50	<0.50	<0.50	NS	<0.50
Naphthalene	100	10 NE	<0.70	<0.70	<0.70	<0.70	<0.70	NS NS	<0.70
n-Butylbenzene N-Propylbenzene	NE NE	NE NE	<0.40 <0.50	<0.40 <0.50	<0.40 <0.50	<0.40 <0.50	<0.40 <0.50	NS NS	<0.40 <0.50
o-Xylene	2000	400	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
p-Isopropyltoluene	NE	NE	<0.50	<0.50	< 0.50	<0.50	< 0.50	NS	<0.50 Y
sec-Butylbenzene	NE	NE 40	<0.40	<0.40	<0.40	<0.40	<0.40	NS	<0.40
Styrene tert-Butylbenzene	100 NE	10 NE	<0.50 <0.40	<0.50 <0.40	<0.50 <0.40	<0.50 <0.40	<0.50 <0.40	NS NS	<0.50 <0.40
Tetrachloroethene	NE 5	0.5	<0.40	<0.40	<0.40	<0.40	<0.40	NS NS	<0.40
Tetrahydrofuran	50	10	<3.0	<3.0	<3.0	<3.0	<3.0	NS	<3.0
Toluene	800	160	<0.30	<0.30	<0.30	<0.30	<0.30	NS	<0.30
trans-1,2-Dichloroethene	100	20	<0.60	<0.60	<0.60	<0.60	<0.60	NS	<0.60
trans-1,3-Dichloropropene Trichloroethene	NE 5	NE 0.5	<0.40 <0.30	<0.40 <0.30	<0.40 <0.30	<0.40 <0.30	<0.40 <0.30	NS NS	<0.40 <0.30
Trichlorofluoromethane	3490	698	<0.30	<0.30	<0.30	<0.30	<0.30	NS NS	<0.30
Vinyl acetate	NE	NE	<3.0	<3.0	<3.0	<3.0	<3.0	NS	<3.0
Vinyl chloride	0.2	0.02	<0.19	<0.19	<0.19	<0.19	0.32	NS	<0.19
Xylenes, Total	2000	400	<0.50	<0.50	<0.50	<0.50	<0.50	NS	<0.50
Inorganic Results (mg/L) Alkalinity, Total	NE	NE	480	680	430	470	840	NS	500
COD, Total	NE NE	NE NE	<b>480</b> <14 M	80	100	52	53	NS NS	40
Fluoride, Total	4	0.8	0.22	5.5	0.14	2.0	0.71	NS	0.74
Hardness, Total	NE	NE	637	537	954	505	713	NS	952
Sodium, Total	NE	NE	66	36	134	128	39.5	NS	38.6

Notes:

NE = Not Established

NS = Not Sampled

< = Less than the detection limit

**Bold = detected concentration** 

Blue indicates exceedance of NR 140 Preventive Action Limit

Yellow indicates exceedance of NR 140 Enforcment Standard

GW = Groundwater

ug/L = micrograms per liter

mg/L = milligrams per liter
M = Matrix spike and/or matrix spike duplicate recovery outside acceptance limits

Y = Replicate/duplicate precision outside acceptance limits

### Table 2 Groundwater Sampling Field Data Sheet Former Allis Chalmers Landfill 11815 W Morgan Ave, Greenfield, WI

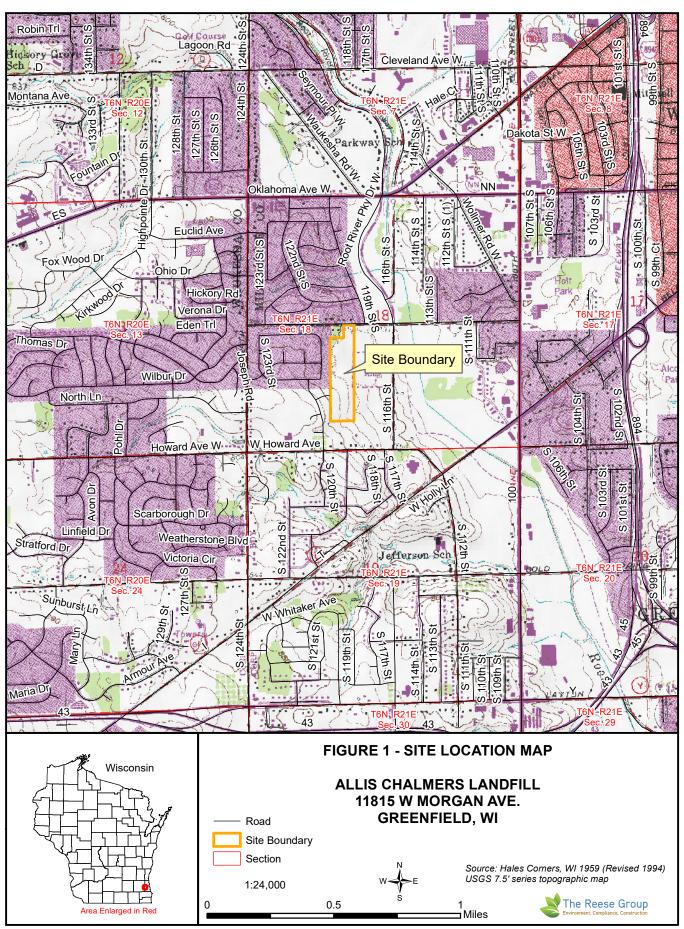
Monitoring Well Location	A	В	С	D	E	F	K
Water Type	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater	Groundwater
	Water Table	Water Table	Water Table		Water Table		Water Table
Well Type	Well	Well	Well	Piezometer	Well	Piezometer	Well
Date of Level	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018
Depth Reference Point (e.g., top of riser)	TOR	TOR	TOR	TOR	TOR	TOR	TOR
Elevation to TOR (amsl)	750.09	755.02	769.01	754.02	744.46	787.48	787.78
Depth from TOR to Ground Surface (ft)	2.08	2.19	2.60	3.08	2.29	2.21	2.04
Measured Depth to Water (ft.)	11.85	18.92	30.25	21.88	10.05	49.40	49.48
Groundwater Elevation (amsl)	738.24	736.10	738.76	732.14	734.41	738.08	738.30
Measured Well Depth (ft.)	28.76	29.46	38.82	42.14	20.40	52.15	60.53
Purging/Sampling Device(s)	Bailer/Pump	Bailer/Pump	Bailer/Pump	Bailer/Pump	Bailer/Pump	Bailer/Pump	Bailer/Pump
Target Purge Volume (gallons)	27.6	17.2	14.0	33.1	16.9	4.5	18.0
Date Purging Completed	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018
Volume Purged (gallons)	28	17.5	14.0	33.5	17.0	3.0	18.0
Did Well Purge Dry? (Y or N)	No	No	No	No	No	Yes	No
Date Sample Withdrawn	7/9/2018	7/9/2018	7/9/2018	7/9/2018	7/9/2018	NS	7/9/2018
Sampled by	LKK	LKK	LKK	LKK	LKK	LKK	LKK
Color	Clear	Light brown	Orange/brown	Clear	Clear	Brown/black	Clear
Odor	None	Slight	None	None	None	NS	None
Turbidity (no, low, med./mod., high)	None	Med-Mod	Med-Mod	None	None	NS	Low
Temperature	11.41	12.15	13.42	12.06	10.70	NS	12.09
Dissolved Oxygen (mg/l)	4.19	1.29	6.08	7.40	3.61	NS	3.15
Specific Conductivity (umho/cm)	1135	896	1213	1206	1281	NS	1395
pH (standard units)	7.41	7.43	7.12	7.61	7.39	NS	7.15
Oxidation Reduction Potential (ORP)	254.2	-169.9	146.9	15.5	-69.1	NS	44.6
Other Field Comments						Groundwater did not recover sufficiently to collect a groundwater sample 24 hours after purging the well dry. TRG tried to sample the well twice without success. Black solid material was noted inside the well (possibly ants).	
Notes:	th a bailer and an ord	المارية والمارية	tio numn				
All monitoring wells were surged and purged wit NS = not sampled	ırı a baller and sampl	eu with a peristal	uc pump.				
TOC = top of casing							



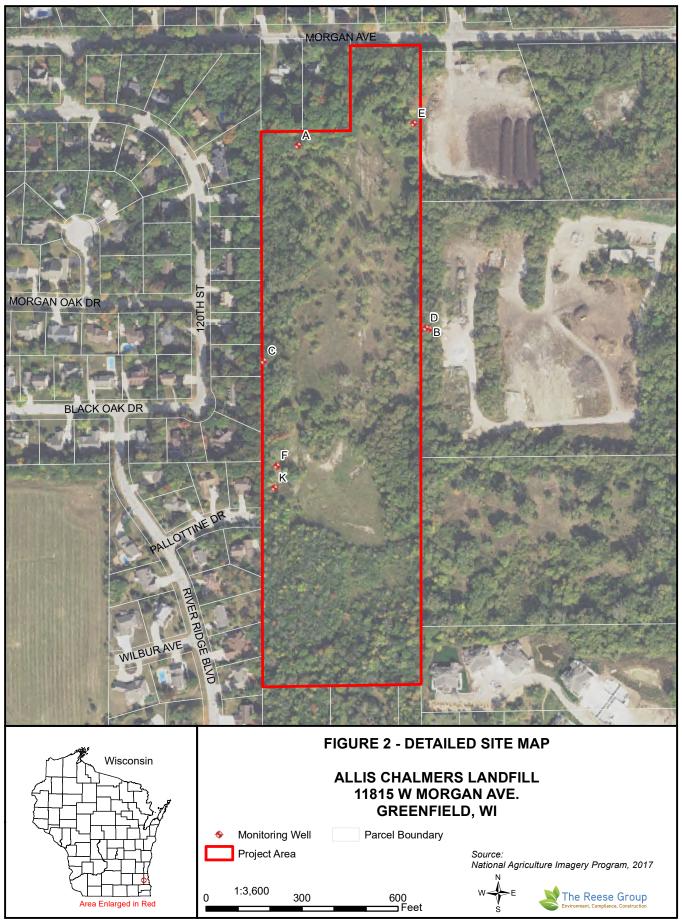
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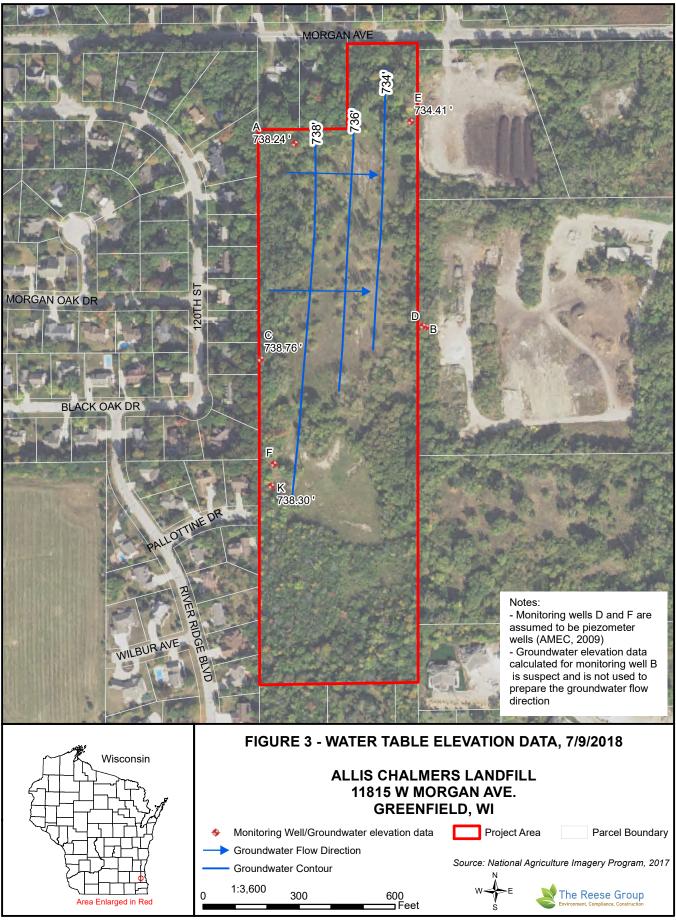
### **FIGURES**

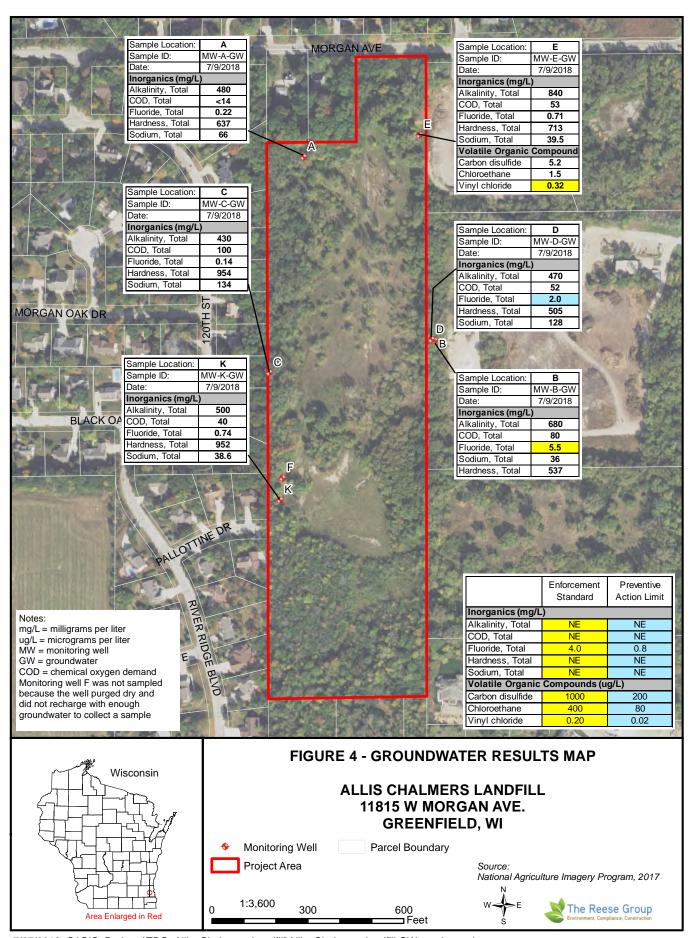
Figure 1 – Site Location Map
Figure 2 – Detailed Site Map
Figure 3 – Water Table Elevation Data, July 9, 2018
Figure 4 – Groundwater Results Map



7/27/2018 C:\GIS\_Projects\TRG\_Allis\_Chalmers\_Landfill\Allis\_Chalmers\_landfill ProjLoc.mxd









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### **Appendices**

Appendix A – Groundwater Monitoring Well Inspection Checklists

Appendix B – Laboratory Analytical Reports

Appendix C – Photographic Documentation of Monitoring Well Inspection and

Groundwater Sampling

Appendix D – Well/Drill Hole/Borehole Filling & Sealing Report (Form 300-005 [R 4/2015])

acility Name: Allis Cholmers Corp L	andfill						
acility License/ID#: 293				<b>Facility Locatio</b>	Green	Fold, WI	
nspector Name: Lee Kimbell				Inspection Dat	7-3-	2018	
tems Inspected	Point ID Name	QOI(CADEA)	Point ID Name	202 (CA010)	Point ID Name	203 (CAO)	
s the well clearly labeled on the outside	No			No			
of the well?					No		
s the well easily found?	Yes			in the woods	Yes		
s the well locked?	Yes		Yes	5	Ye	5	
Does the well have a metal protective cover pipe?	Ye:	5	Ye	\$	Ye	5	
Is the pipe at least 24 inches above ground?	Ye	\$	Y	, es	Y	25	
Does the pipe inhibit the well from being closed and locked?	×	sNo.	1	10	Ye	.5	
Is the pipe more than 4 inches above the well top making it difficult to record accurate water levels?	N.	0	N	0	No		
Is the well cap vented? Except for wells also used for gas monitoring.	N.	9	N	0	No		
Surface seal type:	Conc	rete w/sonl cover	Concrete, soil cone		Concrete	, soil cover	
Is the seal in good condition?	Ye	5 cover	Yes		Y	es	
Is soil or clay mounded over the seal sloped to shed water away from the well?	No		N	Ø	1	Jo	
If bentonite, is it covered with native soil to reduce bentonite desiccation?	N	A	Λ	)A	1	UA	
Has the well moved from its original position? (e.g. heaved, sunk, bent)	No		No		Yes, riser he		
Is a groundwater elevation reference measuring point established on the inner casing?	Yes		Yes		Y	és	
Is there evidence of water ponding around the well casing?	No	,		Vo		No	
If flush mounted well	N.	A		JA		NA	
Can it be locked?	N	A		υA		NA	
Is the well in an area that will not pond water?	75,	NA	^	JA		NA	
Is it installed through an impervious surface? (surface type)	N	A	and the same	UA		NA	
Is the steel cover water tight?		UA.	1	NA	100	NA	
Does the well have a water tight cap?	1	vA		NA	1	NA	
Is additional protection necessary such as bumper posts?	N	0		No		No	
Other comments:							

		ater Monitori	ng well inspe	ection Checki	ist	
	orp L	andfill		le111- 1		Call
Facility License/ID#: 293 Inspector Name: Lee Kinbell	10000		<u> </u>	Facility Loca		FIELD, WI
All Gard	Point ID	204	Point ID	Inspection D	Point ID	200
Items Inspected	Name	D	Name	E	Name	F
Is the well clearly labeled on the outside	200000	SECTION AND	Ivaille		Ivaille	
of the well?	1	0		No		No
s the well easily found?	Ye	<	,	les ·		Yes
s the well locked?	Ye	AND THE RESIDENCE OF THE RESIDENCE		85		Yes
Does the well have a metal protective					- B - 10	
cover pipe?	Ye	5	1 4	25		Yes
Is the pipe at least 24 inches above			THE STATE OF	,		
ground?	Ye	5	Y	25		les
Does the pipe inhibit the well from				Total Visited		
being closed and locked?	No	)	1	Vo.	-	Vo
Is the pipe more than 4 inches above						1944 F.
the well top making it difficult to	N	~	A	Jo		) 1
record accurate water levels?	, , ,		1	00	1	10
Is the well cap vented? Except for wells		T. Salar				
also used for gas monitoring.	No	)	\ \	Jo	N	O
Surface seal type:	Consete.	soil cover	Conside	seil cover	Caniset	e, soil cove
Is the seal in good condition?	Ye5		Ye			25
Is soil or clay mounded over the seal	<b>原理</b>				E STATE	
sloped to shed water away from the	No		No		N	0
well?						
If bentonite, is it covered with native						
soil to reduce bentonite desiccation?	Λ	la	Na	1	1	la
Has the well moved from its original						
Has the well moved from its original position? (e.g. heaved, sunk, bent)	\ \	)0	1 1	10		No
position: (e.g. neaved, sunk, bent)						,
Is a groundwater elevation reference	1					,
measuring point established on the	Ye	5	Ye	5	1	les
inner casing?						
Is there evidence of water ponding	A 1		A 1		1	)
around the well casing?	7)	0	N	0	1	00
flush mounted well	N	<b>L</b>		Va		Na
Can it be locked?	N	A		Va		Na
Is the well in an area that will not pond					Control of the	
water?	N	•	/	Va		NA
Is it installed through an impervious				. 1		
surface? (surface type)	٨	)4		Na		Na
Is the steel cover water tight?		1/2		Na		Na
Does the well have a water tight cap?	٨	la		NA		Na
s additional protection necessary such as						
oumper posts?	N	60	٨	Jo	/	Vo
Other comments:						
Other comments:						

Facility Name: Allis Chalmers	Corp	Landfill					
Facility License/ID #: 293	11214			<b>Facility Locatio</b>	Greet	field,	WI
Inspector Name: Lee Kimbe!		6 7		Inspection Date			
Items Inspected	Point ID Name	211 K	Point ID Name		Point ID Name		-
s the well clearly labeled on the outside	Name		Ivaille		Name		-
of the well?	\ \	Jo					
s the well easily found?		es					
s the well locked?	V	25					
Does the well have a metal protective							
cover pipe?	Ye	25					
Is the pipe at least 24 inches above ground?	40	25					
Does the pipe inhibit the well from being closed and locked?	N	9					No.
Is the pipe more than 4 inches above the well top making it difficult to record accurate water levels?	N	0 3					1
Is the well cap vented? Except for wells also used for gas monitoring.	1	Jo					
Surface seal type:	Concrete	e, soil cover		No. of Street			
Is the seal in good condition?	Yé	CONTRACTOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO					
Is soil or clay mounded over the seal sloped to shed water away from the well?	Ne						
If bentonite, is it covered with native soil to reduce bentonite desiccation?	λ	a					
Has the well moved from its original position? (e.g. heaved, sunk, bent)	N	0					
Is a groundwater elevation reference measuring point established on the inner casing?	Yes						
Is there evidence of water ponding around the well casing?	No	9					
flush mounted well	N	A					
Can it be locked?	٨	ام					
Is the well in an area that will not pond water?	Λ	Ja					
Is it installed through an impervious surface? (surface type)		la					
Is the steel cover water tight?	N	la					
Does the well have a water tight cap?		Jan .		302 F (850)			
additional protection necessary such as umper posts?	MINING STREET	Ja_					
ther comments:  ease give a summary report of action item							

ovarte near description

CT Laboratories LLC • 1230 Lange Ct • Baraboo, WI 53913

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### ANALYTICAL REPORT

THE REESE GROUP

TINA REESE

310 E BUFFALO ST

SUITE 106

MILWAUKEE, WI 53202

Copy: LKIMBELL@THE-REESE-GROUP.COM

Project Name: ALLIS-CHALMERS LF

Project Phase: Contract #: 3197

Project #:

Folder #: 137679

Purchase Order #:

Page 1 of 24

Arrival Temperature: 4.8

Report Date: 07/25/2018

Date Received: 07/12/2018

Reprint Date: 07/25/2018

CT LAB Sample#: 147817 Sam	147817 Sample Description: MW-K-GW							License/Well #: 00293/211		
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										

Inorganic Results										
Alkalinity Total	500	mg/L	6.0	19	1		07/16/2018	14:36	MEZ	EPA 310.2
Total COD	40	mg/L	14 *	46	1	07/17/2018 13:00	07/17/2018	16:35	MEZ	EPA 410.4
Total Fluoride	0.74	mg/L	0.12	0.41	1		07/18/2018	18:23	TMG	EPA 9056A
Metals Results										
Total Sodium	38.6	mg/L	0.10	0.35	1	07/16/2018 10:43	07/18/2018	09:41	MDS	EPA 6010C
Total Hardness	952	mg/L	0.13	0.42	1	07/16/2018 10:43	07/17/2018	21:28	NAH	SM2340B/6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1		07/19/2018	12:04	AGK	EPA 8260C
1,1,1-Trichloroethane	< 0.50	ug/L	0.50	1.8	1		07/19/2018	12:04	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1		07/19/2018	12:04	AGK	EPA 8260C
1,1,2-Trichloroethane	< 0.40	ug/L	0.40	1.5	1		07/19/2018	12:04	AGK	EPA 8260C
1,1-Dichloroethane	< 0.30	ug/L	0.30	1.1	1		07/19/2018	12:04	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1		07/19/2018	12:04	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1		07/19/2018	12:04	AGK	EPA 8260C

THE REESE GROUP
Project Name: ALLIS-CHALMERS LF

Project #:
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Contract #: 3197 Folder #: 137679 Page 2 of 24

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018 12:04 AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1			07/19/2018 12:04 AGK	EPA 8260C
,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018 12:04 AGK	EPA 8260C
,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dichloropropane	< 0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK	EPA 8260C
,3,5-Trimethylbenzene	< 0.40	ug/L	0.40	1.3	1			07/19/2018 12:04 AGK	EPA 8260C
,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 12:04 AGK	EPA 8260C
,3-Dichloropropane	< 0.50	ug/L	0.50	1.6	1			07/19/2018 12:04 AGK	EPA 8260C
,4-Dichlorobenzene	< 0.60	ug/L	0.60	2.0	1			07/19/2018 12:04 AGK	EPA 8260C
,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 12:04 AGK	EPA 8260C
-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 12:04 AGK	EPA 8260C
-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK	EPA 8260C
-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 12:04 AGK	EPA 8260C
-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 12:04 AGK	EPA 8260C
-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 12:04 AGK	EPA 8260C
cetone	<9.0	ug/L	9.0	30	1			07/19/2018 12:04 AGK	EPA 8260C
enzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 12:04 AGK	EPA 8260C
romobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 12:04 AGK	EPA 8260C
romochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 12:04 AGK	EPA 8260C
romodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK	EPA 8260C
romoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 12:04 AGK	EPA 8260C

THE REESE GROUP

Project Name: ALLIS-CHALMERS LF

Project #: Project Phase: Contract #: 3197 Folder #: 137679 Page 3 of 24

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 12:04 AGK EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 12:04 AGK EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 12:04 AGK EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 12:04 AGK EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			07/19/2018 12:04 AGK EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 12:04 AGK EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 12:04 AGK EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 12:04 AGK EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 12:04 AGK EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1	Υ		07/19/2018 12:04 AGK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 12:04 AGK EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 12:04 AGK EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 12:04 AGK EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 12:04 AGK EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 12:04 AGK EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 12:04 AGK EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 12:04 AGK EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 12:04 AGK EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 12:04 AGK EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 12:04 AGK EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1	Υ		07/19/2018 12:04 AGK EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 12:04 AGK EPA 8260C

CT LAB Sample#: 147817 Sample Description: MW-K-GW

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Project Name: ALLIS-CHALMERS LF

Project #:
Project Phase:

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License/Well #: 00293/211 Sampled: 07/09/2018 0730

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 12:04 AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 12:04 AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 12:04 AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 12:04 AGK	EPA 8260C
rans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 12:04 AGK	EPA 8260C
rans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 12:04 AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 12:04 AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 12:04 AGK	EPA 8260C
/inyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 12:04 AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1			07/19/2018 12:04 AGK	EPA 8260C

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	alyst	Method
Inorganic Results										
Alkalinity Total	430	mg/L	6.0	19	1			07/16/2018 14:38	MEZ	EPA 310.2
Total COD	100	mg/L	14	46	1		07/17/2018 13:00	07/17/2018 16:35	MEZ	EPA 410.4
Total Fluoride	0.14	mg/L	0.12 *	0.41	1			07/18/2018 21:43	TMG	EPA 9056A
Metals Results										
Total Sodium	134	mg/L	0.10	0.35	1		07/16/2018 10:43	07/18/2018 09:54	MDS	EPA 6010C
Total Hardness	954	mg/L	0.13	0.42	1		07/16/2018 10:43	07/17/2018 22:18	NAH	SM2340B/6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1			07/19/2018 15:00	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

THE REESE GROUP
Project Name: ALLIS-CHALMERS LF

Project #:
Project Phase:

Contract #: 3197 Folder #: 137679 Page 5 of 24

CT LAB Sample#: 147818 Sample Description: MW-C-GW

License/Well #: 00293/203 Sampled: 07/09/2018 0850

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1			07/19/2018 15:00 AGK EPA 8260C
1,1,2,2-Tetrachloroethane	< 0.70	ug/L	0.70	2.4	1			07/19/2018 15:00 AGK EPA 8260C
1,1,2-Trichloroethane	< 0.40	ug/L	0.40	1.5	1			07/19/2018 15:00 AGK EPA 8260C
1,1-Dichloroethane	< 0.30	ug/L	0.30	1.1	1			07/19/2018 15:00 AGK EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1			07/19/2018 15:00 AGK EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1			07/19/2018 15:00 AGK EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018 15:00 AGK EPA 8260C
1,2,3-Trichloropropane	< 0.60	ug/L	0.60	1.9	1			07/19/2018 15:00 AGK EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018 15:00 AGK EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 15:00 AGK EPA 8260C
,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 15:00 AGK EPA 8260C
,2-Dibromoethane	< 0.60	ug/L	0.60	1.8	1			07/19/2018 15:00 AGK EPA 8260C
1,2-Dichlorobenzene	< 0.60	ug/L	0.60	1.9	1			07/19/2018 15:00 AGK EPA 8260C
,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 15:00 AGK EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00 AGK EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 15:00 AGK EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 15:00 AGK EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 15:00 AGK EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 15:00 AGK EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 15:00 AGK EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 15:00 AGK EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00 AGK EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 15:00 AGK EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 15:00 AGK EPA 8260C
I-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 15:00 AGK EPA 8260C

THE REESE GROUP
Project Name: ALLIS-CHALMERS LF

Project #:
Project Phase:

Contract #: 3197 Folder #: 137679 Page 6 of 24

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Acetone	<9.0	ug/L	9.0	30	1			07/19/2018 15:00 AGK EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 15:00 AGK EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 15:00 AGK EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 15:00 AGK EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00 AGK EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 15:00 AGK EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 15:00 AGK EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 15:00 AGK EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 15:00 AGK EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 15:00 AGK EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			07/19/2018 15:00 AGK EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 15:00 AGK EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 15:00 AGK EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 15:00 AGK EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 15:00 AGK EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00 AGK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 15:00 AGK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 15:00 AGK EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 15:00 AGK EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 15:00 AGK EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 15:00 AGK EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00 AGK EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 15:00 AGK EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 15:00 AGK EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 15:00 AGK EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Ana Date/Time	yst Metho
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 15:00	GK EPA 82
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 15:00	GK EPA 82
laphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 15:00	GK EPA 82
-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00	GK EPA 82
-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 15:00	GK EPA 82
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 15:00	GK EPA 82
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 15:00	GK EPA 82
ert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00	GK EPA 82
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 15:00	GK EPA 82
etrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 15:00	GK EPA 82
oluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 15:00	GK EPA 82
rans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 15:00	GK EPA 82
rans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 15:00	GK EPA 82
Trichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 15:00	GK EPA 82
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 15:00	GK EPA 82
/inyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 15:00	GK EPA 82
/inyl chloride	<0.19	ug/L	0.19	0.64	1			07/19/2018 15:00	GK EPA 82

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Inorganic Results								
Alkalinity Total	480	mg/L	6.0	19	1			07/16/2018 14:39 MEZ EPA 310.2
Total COD	<14	mg/L	14	46	1	M	07/17/2018 13:00	07/17/2018 16:35 MEZ EPA 410.4

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Analista		11-9-			Direct.	Over-1100			.:	val: : 1	Made
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analys Date/Ti	sis Ar ime	nalyst	Method
Total Fluoride	0.22	mg/L	0.12 *	0.41	1			07/18/2018	19:43	TMG	EPA 9056A
Metals Results											
Total Sodium	66.0	mg/L	0.10	0.35	1		07/16/2018 10:43	07/18/2018	09:56	MDS	EPA 6010C
Total Hardness	637	mg/L	0.13	0.42	1		07/16/2018 10:43	07/17/2018	22:26	NAH	SM2340B/6010C
Organic Results											
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1			07/19/2018	17:56	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1			07/19/2018	17:56	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1			07/19/2018	17:56	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1			07/19/2018	17:56	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			07/19/2018	17:56	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1			07/19/2018	17:56	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1			07/19/2018	17:56	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018	17:56	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1			07/19/2018	17:56	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018	17:56	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018	17:56	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018	17:56	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018	17:56	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018	17:56	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018	17:56	AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1			07/19/2018	17:56	AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018	17:56	AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018	17:56	AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018	17:56	AGK	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 17:56 AGK EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 17:56 AGK EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 17:56 AGK EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 17:56 AGK EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 17:56 AGK EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 17:56 AGK EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1			07/19/2018 17:56 AGK EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 17:56 AGK EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 17:56 AGK EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 17:56 AGK EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 17:56 AGK EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 17:56 AGK EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 17:56 AGK EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 17:56 AGK EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 17:56 AGK EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			07/19/2018 17:56 AGK EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 17:56 AGK EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 17:56 AGK EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 17:56 AGK EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 17:56 AGK EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 17:56 AGK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 17:56 AGK EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 17:56 AGK	EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 17:56 AGK	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 17:56 AGK	EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK	EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 17:56 AGK	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 17:56 AGK	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 17:56 AGK	EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 17:56 AGK	EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 17:56 AGK	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 17:56 AGK	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK	EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 17:56 AGK	EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 17:56 AGK	EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 17:56 AGK	EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK	EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 17:56 AGK	EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 17:56 AGK	EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 17:56 AGK	EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 17:56 AGK	EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 17:56 AGK	EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 17:56 AGK	EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 17:56 AGK	EPA 8260C
Vinyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 17:56 AGK	EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1			07/19/2018 17:56 AGK	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis A Date/Time	nalyst	Method
Inorganic Results										
Total COD	53	mg/L	14	46	1		07/17/2018 13:00	07/17/2018 16:35	MEZ	EPA 410.4
Total Fluoride	0.71	mg/L	0.12	0.41	1			07/18/2018 20:03	TMG	EPA 9056A
Alkalinity	840	mg/L	4.0	4.0	1			07/17/2018 15:50	MEZ	SM 2320B
Metals Results										
Total Sodium	39.5	mg/L	0.10	0.35	1		07/16/2018 10:43	07/18/2018 09:59	MDS	EPA 6010C
Total Hardness	713	mg/L	0.13	0.42	1		07/16/2018 10:43	07/17/2018 22:33	NAH	SM2340B/6010C
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1			07/19/2018 13:33	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1			07/19/2018 13:33	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 13:33	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 13:33	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 13:33	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1			07/19/2018 13:33	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1			07/19/2018 13:33	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018 13:33	AGK	EPA 8260C
1,2,3-Trichloropropane	< 0.60	ug/L	0.60	1.9	1			07/19/2018 13:33	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018 13:33	AGK	EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 13:33	AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 13:33	AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018 13:33	AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 13:33	AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 13:33	AGK	EPA 8260C
1,2-Dichloropropane	< 0.40	ug/L	0.40	1.4	1			07/19/2018 13:33	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

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CT LAB Sample#: 147820 Sample Description: MW-E-GW License/Well #: 00293/205 Sampled: 07/09/2018 1030

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 13:33 AGK EPA 826
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 13:33 AGK EPA 826
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 13:33 AGK EPA 826
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 13:33 AGK EPA 826
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 13:33 AGK EPA 826
2-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 13:33 AGK EPA 826
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 826
2-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 13:33 AGK EPA 826
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 13:33 AGK EPA 826
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 13:33 AGK EPA 826
Acetone	<9.0	ug/L	9.0	30	1			07/19/2018 13:33 AGK EPA 826
Benzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 13:33 AGK EPA 826
Bromobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 13:33 AGK EPA 826
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 13:33 AGK EPA 826
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 826
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 13:33 AGK EPA 826
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 13:33 AGK EPA 826
Carbon disulfide	5.2	ug/L	0.50	1.6	1			07/19/2018 13:33 AGK EPA 826
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 13:33 AGK EPA 826
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 13:33 AGK EPA 826
Chloroethane	1.5	ug/L	0.50 *	1.6	1			07/19/2018 13:33 AGK EPA 826
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 13:33 AGK EPA 826
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 13:33 AGK EPA 826
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 13:33 AGK EPA 826
cis-1,3-Dichloropropene	< 0.40	ug/L	0.40	1.2	1			07/19/2018 13:33 AGK EPA 826

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep	Analysis Analyst Method
Analyte	Result	Units	LUD	LUQ	Dilution	Quaiiller	Date/Time	Date/Time
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 13:33 AGK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 13:33 AGK EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 13:33 AGK EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 13:33 AGK EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 13:33 AGK EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 13:33 AGK EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 13:33 AGK EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 13:33 AGK EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 13:33 AGK EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 13:33 AGK EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 13:33 AGK EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 13:33 AGK EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 13:33 AGK EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 13:33 AGK EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 13:33 AGK EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 13:33 AGK EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 13:33 AGK EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 13:33 AGK EPA 8260C
rans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 13:33 AGK EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 13:33 AGK EPA 8260C
Trichlorofluoromethane	< 0.30	ug/L	0.30	1.1	1			07/19/2018 13:33 AGK EPA 8260C

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CT LAB Sample#: 147820 S	ample Description: MW-E	-GW					License/V	Vell #: 00293/205	Sampled	: 07/09/2018 1030
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Vinyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 13:	33 AGK	EPA 8260C
Vinyl chloride	0.32	ug/L	0.19 *	0.64	1			07/19/2018 13:	33 AGK	EPA 8260C
CT LAB Sample#: 147821 S	ample Description: MW-E	3-GW					License/V	Vell #: 00293/202	Sampled	: 07/09/2018 1115
Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Inorganic Results										
Alkalinity Total	680	mg/L	6.0	19	1			07/16/2018 14:	44 MEZ	EPA 310.2
Tatal COD	00		4.4	40	4		07/47/0040 40:00	07/47/0040 40.	05 MEZ	EDA 440.4

						Date/Time	Date/Time		
Inorganic Results									
Alkalinity Total	680	mg/L	6.0	19	1		07/16/2018 14:44	MEZ	EPA 310.2
Total COD		ŭ	14	46	1	07/17/2018 13:00	07/17/2018 16:35	MEZ	EPA 410.4
	80	mg/L			į.	07/17/2016 13:00		IVIEZ	EPA 410.4
Total Fluoride	5.5	mg/L	0.60	2.1	5		07/19/2018 08:51	TMG	EPA 9056A
Metals Results									
Total Sodium	36.0	mg/L	0.10	0.35	1	07/16/2018 10:43	07/18/2018 10:02	MDS	EPA 6010C
Total Hardness	537	mg/L	0.13	0.42	1	07/16/2018 10:43	07/17/2018 22:41	NAH	SM2340B/6010C
Organic Results									
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1		07/19/2018 14:02	AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1		07/19/2018 14:02	AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1		07/19/2018 14:02	AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1		07/19/2018 14:02	AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1		07/19/2018 14:02	AGK	EPA 8260C
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1		07/19/2018 14:02	AGK	EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1		07/19/2018 14:02	AGK	EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1		07/19/2018 14:02	AGK	EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1		07/19/2018 14:02	AGK	EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1		07/19/2018 14:02	AGK	EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:02 AGK	EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 14:02 AGK	EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018 14:02 AGK	EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:02 AGK	EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 14:02 AGK	EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK	EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 14:02 AGK	EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:02 AGK	EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:02 AGK	EPA 8260C
,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 14:02 AGK	EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:02 AGK	EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 14:02 AGK	EPA 8260C
-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK	EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 14:02 AGK	EPA 8260C
1-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:02 AGK	EPA 8260C
I-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 14:02 AGK	EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1			07/19/2018 14:02 AGK	EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 14:02 AGK	EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:02 AGK	EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 14:02 AGK	EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 14:02 AGK	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 14:02 AGK	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:02 AGK	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:02 AGK	EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 14:02 AGK EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:02 AGK EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 14:02 AGK EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 14:02 AGK EPA 8260C
cis-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 14:02 AGK EPA 8260C
cis-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:02 AGK EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 14:02 AGK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:02 AGK EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 14:02 AGK EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:02 AGK EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 14:02 AGK EPA 8260C
Isopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK EPA 8260C
m & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:02 AGK EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:02 AGK EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 14:02 AGK EPA 8260C
n-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:02 AGK EPA 8260C
n-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:02 AGK EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 14:02 AGK EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK EPA 8260C
o-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 14:02 AGK EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 14:02 AGK EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 14:02 AGK EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:02 AGK EPA 8260C

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Гetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 14:02 AGK	EPA 8260C
Γoluene	< 0.30	ug/L	0.30	1.1	1			07/19/2018 14:02 AGK	EPA 8260C
rans-1,2-Dichloroethene	< 0.60	ug/L	0.60	1.9	1			07/19/2018 14:02 AGK	EPA 8260C
rans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:02 AGK	EPA 8260C
Trichloroethene	< 0.30	ug/L	0.30	1.0	1			07/19/2018 14:02 AGK	EPA 8260C
Frichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:02 AGK	EPA 8260C
√inyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 14:02 AGK	EPA 8260C
/inyl chloride	<0.19	ug/L	0.19	0.64	1			07/19/2018 14:02 AGK	EPA 8260C

CT LAB Sample#: 147822 Sample Description: MW-D-GW License/Well #: 00293/204 Sampled: 07/09/2018 1200

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	yst Method
Inorganic Results									
Alkalinity Total	470	mg/L	6.0	19	1			07/16/2018 14:45 N	MEZ EPA 310.2
Total COD	52	mg/L	14	46	1		07/17/2018 13:00	07/17/2018 16:35	MEZ EPA 410.4
Total Fluoride	2.0	mg/L	0.12	0.41	1			07/18/2018 21:23	MG EPA 9056A
Metals Results									
Total Sodium	128	mg/L	0.10	0.35	1		07/16/2018 10:43	07/18/2018 10:12	IDS EPA 6010C
Total Hardness	505	mg/L	0.13	0.42	1		07/16/2018 10:43	07/17/2018 22:48	IAH SM2340B/6010C
Organic Results									
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:31	GK EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:31	GK EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 14:31	GK EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:31	GK EPA 8260C

Unless specifically stated to the contrary, soil/sediment/sludge sample results/LOD/LOQ/RLs were reported on a Dry Weight Basis

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CT LAB Sample#: 147822 Sample Description: MW-D-GW

License/Well #: 00293/204 Sampled: 07/09/2018 1200

nalyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analys Date/Time	Method
,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:31 AG	K EPA 8260C
,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:31 AG	K EPA 8260C
,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1			07/19/2018 14:31 AG	K EPA 8260C
,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018 14:31 AG	K EPA 8260C
2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:31 AG	K EPA 8260C
,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018 14:31 AG	K EPA 8260C
,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:31 AG	K EPA 8260C
2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 14:31 AG	K EPA 8260C
,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018 14:31 AG	K EPA 8260C
2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:31 AG	K EPA 8260C
2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 14:31 AG	K EPA 8260C
2-Dichloropropane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 AG	K EPA 8260C
3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 14:31 AG	K EPA 8260C
3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:31 AG	K EPA 8260C
3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:31 AG	K EPA 8260C
4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 14:31 AG	K EPA 8260C
2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:31 AG	K EPA 8260C
-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 14:31 AG	K EPA 8260C
Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 AG	K EPA 8260C
Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 14:31 AG	K EPA 8260C
Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:31 AG	K EPA 8260C
Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 14:31 AG	K EPA 8260C
cetone	<9.0	ug/L	9.0	30	1			07/19/2018 14:31 AG	K EPA 8260C
enzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 14:31 AG	K EPA 8260C
romobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:31 AG	K EPA 8260C

# CT LABORATORIES delivering more than data from your environmental analyses

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Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analy Date/Time	st Method
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 14:31 A	GK EPA 8260C
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 A	GK EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 14:31 A	GK EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 14:31 A	GK EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:31 A	GK EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:31 A	GK EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 14:31 A	GK EPA 8260C
Chloroethane	<0.50	ug/L	0.50	1.6	1			07/19/2018 14:31 A	GK EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 14:31 A	GK EPA 8260C
chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 14:31 A	GK EPA 8260C
is-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 14:31 A	GK EPA 8260C
is-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:31 A	GK EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 A	GK EPA 8260C
Dibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 14:31 A	GK EPA 8260C
Dichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 14:31 A	GK EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 14:31 A	GK EPA 8260C
Ethylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:31 A	GK EPA 8260C
lexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 14:31 A	GK EPA 8260C
sopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 A	GK EPA 8260C
n & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:31 A	GK EPA 8260C
lethyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:31 A	GK EPA 8260C
lethylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 14:31 A	GK EPA 8260C
-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 14:31 A	GK EPA 8260C
-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:31 A	GK EPA 8260C
laphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 14:31 A	GK EPA 8260C

### CT LABORATORI

< 0.19

delivering more than data from your environmental analyses

Vinyl chloride

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07/19/2018 14:31 AGK EPA 8260C

CT LAB Sample#: 147822 Sample Description: MW-D-GW License/Well #: 00293/204 Sampled: 07/09/2018 1200 Analyta Docult Hnito LOD Qualifier Dron Analysis Analyst Mothod 100 Dilution

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 AGK EPA 8260C
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 14:31 AGK EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 14:31 AGK EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 14:31 AGK EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 AGK EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 14:31 AGK EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 14:31 AGK EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:31 AGK EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 14:31 AGK EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 14:31 AGK EPA 8260C
Trichloroethene	< 0.30	ug/L	0.30	1.0	1			07/19/2018 14:31 AGK EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 14:31 AGK EPA 8260C
Vinyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 14:31 AGK EPA 8260C

CT LAB Sample#: 147823 Sample Description: TRIP BLANK License/Well #: 00293/999 Sampled: 07/09/2018 1230

0.64

1

0.19

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Date/Time	Analyst	Method
Organic Results										
1,1,1,2-Tetrachloroethane	<0.60	ug/L	0.60	1.9	1			07/19/2018 11:	34 AGK	EPA 8260C
1,1,1-Trichloroethane	<0.50	ug/L	0.50	1.8	1			07/19/2018 11:	34 AGK	EPA 8260C
1,1,2,2-Tetrachloroethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 11:	34 AGK	EPA 8260C
1,1,2-Trichloroethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 11:	34 AGK	EPA 8260C
1,1-Dichloroethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 11:	34 AGK	EPA 8260C

ug/L

### delivering more than data from your environmental analyses

Project Name: ALLIS-CHALMERS LF

Project #: Project Phase:

THE REESE GROUP

Contract #: 3197 Folder #: 137679 Page 21 of 24

CT LAB Sample#: 147823 Sample Description: TRIP BLANK License/Well #: 00293/999 Sampled: 07/09/2018 1230

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Method Date/Time
1,1-Dichloroethene	<0.40	ug/L	0.40	1.5	1			07/19/2018 11:34 AGK EPA 8260C
1,1-Dichloropropene	<0.70	ug/L	0.70	2.2	1			07/19/2018 11:34 AGK EPA 8260C
1,2,3-Trichlorobenzene	<0.80	ug/L	0.80	2.6	1			07/19/2018 11:34 AGK EPA 8260C
1,2,3-Trichloropropane	<0.60	ug/L	0.60	1.9	1			07/19/2018 11:34 AGK EPA 8260C
1,2,4-Trichlorobenzene	<0.50	ug/L	0.50	1.7	1			07/19/2018 11:34 AGK EPA 8260C
1,2,4-Trimethylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 11:34 AGK EPA 8260C
1,2-Dibromo-3-chloropropane	<0.70	ug/L	0.70	2.4	1			07/19/2018 11:34 AGK EPA 8260C
1,2-Dibromoethane	<0.60	ug/L	0.60	1.8	1			07/19/2018 11:34 AGK EPA 8260C
1,2-Dichlorobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 11:34 AGK EPA 8260C
1,2-Dichloroethane	<0.26	ug/L	0.26	0.87	1			07/19/2018 11:34 AGK EPA 8260C
1,2-Dichloropropane	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AGK EPA 8260C
1,3,5-Trimethylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 11:34 AGK EPA 8260C
1,3-Dichlorobenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 11:34 AGK EPA 8260C
1,3-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 11:34 AGK EPA 8260C
1,4-Dichlorobenzene	<0.60	ug/L	0.60	2.0	1			07/19/2018 11:34 AGK EPA 8260C
2,2-Dichloropropane	<0.50	ug/L	0.50	1.6	1			07/19/2018 11:34 AGK EPA 8260C
2-Butanone	<4.0	ug/L	4.0	14	1			07/19/2018 11:34 AGK EPA 8260C
2-Chlorotoluene	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AGK EPA 8260C
2-Hexanone	<7.0	ug/L	7.0	24	1			07/19/2018 11:34 AGK EPA 8260C
4-Chlorotoluene	<0.40	ug/L	0.40	1.5	1			07/19/2018 11:34 AGK EPA 8260C
4-Methyl-2-pentanone	<6.0	ug/L	6.0	19	1			07/19/2018 11:34 AGK EPA 8260C
Acetone	<9.0	ug/L	9.0	30	1			07/19/2018 11:34 AGK EPA 8260C
Benzene	<0.24	ug/L	0.24	0.81	1			07/19/2018 11:34 AGK EPA 8260C
Bromobenzene	<0.60	ug/L	0.60	1.9	1			07/19/2018 11:34 AGK EPA 8260C
Bromochloromethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 11:34 AGK EPA 8260C

# CT LABORATORIES delivering more than data from your environmental analyses

THE REESE GROUP
Project Name: ALLIS-CHALMERS LF

Project #:
Project Phase:

Contract #: 3197 Folder #: 137679 Page 22 of 24

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Analyst Date/Time	Method
Bromodichloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AG	EPA 8260C
Bromoform	<0.70	ug/L	0.70	2.3	1			07/19/2018 11:34 AG	EPA 8260C
Bromomethane	<0.70	ug/L	0.70	2.4	1			07/19/2018 11:34 AG	EPA 8260C
Carbon disulfide	<0.50	ug/L	0.50	1.6	1			07/19/2018 11:34 AG	EPA 8260C
Carbon tetrachloride	<0.50	ug/L	0.50	1.6	1			07/19/2018 11:34 AG	EPA 8260C
Chlorobenzene	<0.50	ug/L	0.50	1.5	1			07/19/2018 11:34 AG	EPA 8260C
Chloroethane	< 0.50	ug/L	0.50	1.6	1			07/19/2018 11:34 AG	EPA 8260C
Chloroform	<0.30	ug/L	0.30	0.90	1			07/19/2018 11:34 AG	EPA 8260C
Chloromethane	<0.70	ug/L	0.70	2.5	1			07/19/2018 11:34 AG	EPA 8260C
is-1,2-Dichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 11:34 AG	EPA 8260C
is-1,3-Dichloropropene	<0.40	ug/L	0.40	1.2	1			07/19/2018 11:34 AG	EPA 8260C
Dibromochloromethane	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AG	EPA 8260C
ibromomethane	<0.80	ug/L	0.80	2.5	1			07/19/2018 11:34 AG	EPA 8260C
ichlorodifluoromethane	<0.40	ug/L	0.40	1.5	1			07/19/2018 11:34 AG	EPA 8260C
Diisopropyl ether	<0.29	ug/L	0.29	0.97	1			07/19/2018 11:34 AG	EPA 8260C
thylbenzene	<0.30	ug/L	0.30	1.1	1			07/19/2018 11:34 AG	EPA 8260C
Hexachlorobutadiene	<0.90	ug/L	0.90	2.9	1			07/19/2018 11:34 AG	EPA 8260C
sopropylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AG	EPA 8260C
n & p-Xylene	<0.50	ug/L	0.50	1.8	1			07/19/2018 11:34 AG	EPA 8260C
Methyl tert-butyl ether	<0.30	ug/L	0.30	1.1	1			07/19/2018 11:34 AG	EPA 8260C
Methylene chloride	<0.50	ug/L	0.50	1.7	1			07/19/2018 11:34 AG	EPA 8260C
-Butylbenzene	<0.40	ug/L	0.40	1.2	1			07/19/2018 11:34 AG	EPA 8260C
-Propylbenzene	<0.50	ug/L	0.50	1.8	1			07/19/2018 11:34 AG	EPA 8260C
Naphthalene	<0.70	ug/L	0.70	2.2	1			07/19/2018 11:34 AGF	EPA 8260C
o-Xylene	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 AGF	EPA 8260C

### CT LABORATORIES

delivering more than data from your environmental analyses

THE REESE GROUP

Project Name: ALLIS-CHALMERS LF

Project #: Project Phase: Contract #: 3197 Folder #: 137679 Page 23 of 24

CT LAB Sample#: 147823 Sample Description: TRIP BLANK License/Well #: 00293/999 Sampled: 07/09/2018 1230

Analyte	Result	Units	LOD	LOQ	Dilution	Qualifier	Prep Date/Time	Analysis Anal Date/Time	st Method
p-Isopropyltoluene	<0.50	ug/L	0.50	1.5	1			07/19/2018 11:34 A	GK EPA 8260C
sec-Butylbenzene	<0.40	ug/L	0.40	1.3	1			07/19/2018 11:34 A	GK EPA 8260C
Styrene	<0.50	ug/L	0.50	1.7	1			07/19/2018 11:34 A	GK EPA 8260C
tert-Butylbenzene	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 A	GK EPA 8260C
Tetrachloroethene	<0.50	ug/L	0.50	1.8	1			07/19/2018 11:34 A	GK EPA 8260C
Tetrahydrofuran	<3.0	ug/L	3.0	10	1			07/19/2018 11:34 A	GK EPA 8260C
Toluene	<0.30	ug/L	0.30	1.1	1			07/19/2018 11:34 A	GK EPA 8260C
trans-1,2-Dichloroethene	<0.60	ug/L	0.60	1.9	1			07/19/2018 11:34 A	GK EPA 8260C
trans-1,3-Dichloropropene	<0.40	ug/L	0.40	1.4	1			07/19/2018 11:34 A	GK EPA 8260C
Trichloroethene	<0.30	ug/L	0.30	1.0	1			07/19/2018 11:34 A	GK EPA 8260C
Trichlorofluoromethane	<0.30	ug/L	0.30	1.1	1			07/19/2018 11:34 A	GK EPA 8260C
Vinyl acetate	<3.0	ug/L	3.0	11	1			07/19/2018 11:34 A	GK EPA 8260C
Vinyl chloride	<0.19	ug/L	0.19	0.64	1			07/19/2018 11:34 A	GK EPA 8260C

### CT LABORATORIES delivering more than data from your environmental analyses

Analyte detected in the associated Method Blank

Code

Description

THE REESE GROUP

Project Name: ALLIS-CHALMERS LF

Project #: Project Phase: Contract #: 3197 Folder #: 137679 Page 24 of 24

Notes: \* Indicates a value in between the LOD (limit of detection) and the LOQ (limit of quantitation). All LOD/LOQs are adjusted to reflect dilution and also any differences in the sample weight / volume as compared to standard amounts.

All samples were received intact and properly preserved unless otherwise noted. The results reported relate only to the samples tested. This report shall not be reproduced, except in full, without written approval of this laboratory. The Chain of Custody is attached.

Submitted by:

Eric T. Korthals Project Manager 608-356-2760

#### **QC** Qualifiers

D	Analyte detected in the associated Method Blank.
С	Toxicity present in BOD sample.
D	Diluted Out.
E	Safe, No Total Coliform detected.
F	Unsafe, Total Coliform detected, no E. Coli detected.
G	Unsafe, Total Coliform detected and E. Coli detected.
Н	Holding time exceeded.
I	Incubator temperature was outside acceptance limits during test period.
J	Estimated value.
L	Significant peaks were detected outside the chromatographic window.
M	Matrix spike and/or Matrix Spike Duplicate recovery outside acceptance limits.
N	Insufficient BOD oxygen depletion.
0	Complete BOD oxygen depletion.
Р	Concentration of analyte differs more than 40% between primary and confirmation analysis.
Q	Laboratory Control Sample outside acceptance limits.
R	See Narrative at end of report.
S	Surrogate standard recovery outside acceptance limits due to apparent matrix effects.
Т	Sample received with improper preservation or temperature.
U	Analyte concentration was below detection limit.
V	Raised Quantitation or Reporting Limit due to limited sample amount or dilution for matrix background interference.
W	Sample amount received was below program minimum.
X	Analyte exceeded calibration range.
Υ	Replicate/Duplicate precision outside acceptance limits.
Z	Specified calibration criteria was not met.

#### **Current CT Laboratories Certifications**

Wisconsin (WDNR) Chemistry ID# 157066030
Wisconsin (DATCP) Bacteriology ID# 105-289
Louisiana NELAP (primary) ID# ACC20160002
Illinois NELAP Lab ID# 200073
Kansas NELAP Lab ID# E-10368
Virginia NELAP Lab ID# 460203
Maryland Lab ID# WI00061
ISO/IEC 17025-2005 A2LA Cert # 3806.01
DoD-ELAP A2LA 3806.01
GA EPD Stipulation ID ACC20160002

Rev. 02/2017	CHAIN OF CL	USTO	DY		-										Page	
Company: The Reese Group Project Contact: Lee Kimbell Telephone: 2702108583 Project Name: Allis Chalmers L Project #: Location: Greenfled, WI Sampled By: Lee Kimbell	608-356-2760 Fax 608-356-2766 www.ctlaboratories.com  ogram:  ESE GROUP  SM RCRA SDWA NPDES  ALMERS LF plid Waste Other  PM: ET								Company: TRG Address:  Invoice To:* EMAIL: Company: TRG Address:							
Client Special Instructions		N/N		1/50divn	ty /Flooride	J. I	AN			QUES		ble for pay	ment of invol	Containers	MS/MSD	Turnaround Time Normal RUSH* Date Needed:  Rush analysis requires prior CT Laboratories' approval Surcharges:
Matrix: GW – groundwater SW - surface water WW - wastew S - soil/sediment SL - sludge A - air  Collection Date Time Matrix Grab/ Comp #	M - misc/waste  Sample ID Description	Filtered? Y/N	VOCs	H-Cody	Alkaisity	97	Fill	in Spa	aces	with E	Bottle	s per Tes	t	Total #	Designated	24 hr 200% 2-3 days 100% 4-9 days 50% CT Lab ID # Lab use only
7/9/18 0850 GU G 7/9/18 0945 GW G	MW-K-GW MW-C-GW MW-A-GW MW-E-GW	N N N	3 3 3	+	1 1	1 1								0000		1478/7 1478/8 1478/9 1478/20
	NW-B-GW NW-D-GW Trip Blank	N	3 1	1	1	J F								001		1478 QL 1478 QQ 1478 QZ
Relinquished By:  Received by:	Date/Time 7/18/18 18:00 Date/Time	Rece Rece			oorat	ory by:				B	·  -	Date/Time 11/2/8 Date/Time	1210		Ten	Present (Yes) No np IR Gun/

#### Preventative Action Limit (PAL) Exceedances

07/25/2018

Location/Landfill: ALLIS-CHALMERS LF License #: 00293 Page 1 of 1

Well Description: MW-B-GW	Well #:	202		Sample Date	07/09/20	18
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Fluoride	00951	5.5	0.8	4	0.60	mg/L
Well Description: MW-D-GW	Well #:	204		Sample Date	07/09/20 <sup>-</sup>	18
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Total Fluoride	00951	2.0	0.8	4	0.12	mg/L
Well Description: MW-E-GW	Well #:	205		Sample Date	07/09/20	18
Parameter	DNR Parameter #	Result	PAL	ES	LOD	Units
Vinyl chloride	39175	0.32	0.02	0.20	0.19	ug/L



**Prepared by:** The Reese Group

**Client:** Milwaukee County Department of Administrative Services, Milwaukee, WI

Location: Former Allis Chalmers Landfill, 11815 W

Morgan Ave, Greenfield, WI

Photograph No. 1

Photographer: Lee Kimbell

Photograph Date: 07/03/2018

**Description:** 

Northwestern facing view of MW-A with orange marking tape tied to adjacent tree.



Photograph No. 2

Photographer: Lee Kimbell

Photograph Date: 07/03/2018

**Description:** 

Southeastern facing view of MW-B (back left) and MW-D (front right) located near western property boundary of the Former Allis Chalmers Landfill property.





**Prepared by:** The Reese Group

**Client:** Milwaukee County Department of Administrative Services, Milwaukee, WI

Location: Former Allis Chalmers Landfill, 11815 W

Morgan Ave, Greenfield, WI

Photograph No. 3

**Photographer:** Lee Kimbell

Photograph Date: 07/03/2018

**Description:** 

Northern facing view of MW-C with heaved riser pipe (approx. 6" above metal protective pipe).



Photograph No. 4

**Photographer:** Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Aerial view of MW-E with label on slip cap shown.





Prepared by: The Reese Group

**Client:** Milwaukee County Department of Administrative Services, Milwaukee, WI

Location: Former Allis Chalmers Landfill, 11815 W

Morgan Ave, Greenfield, WI

Photograph No. 5

**Photographer:** Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Northeastern facing view of MW-F.



Photograph No. 6

**Photographer:** Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Downward facing view of MW-

K.





**Prepared by:** The Reese Group

**Client:** Milwaukee County Department of Administrative Services, Milwaukee, WI

Location: Former Allis Chalmers Landfill, 11815 W

Morgan Ave, Greenfield, WI

Photograph No. 7

Photographer: Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Groundwater sampling with peristaltic pump and dedicated tubing at MW-C.



Photograph No. 8

Photographer: Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Temporary PVC gas probe (VP-10) located in west-central portion of Site, prior to being abandoned by TRG personnel.





Prepared by: The Reese Group

**Client:** Milwaukee County Department of Administrative Services, Milwaukee, WI

Location: Former Allis Chalmers Landfill, 11815 W

Morgan Ave, Greenfield, WI

Photograph No. 9

**Photographer:** Lee Kimbell

Photograph Date: 07/09/2018

**Description:** 

Former location of temporary gas probe VP-10. Filled with approximately 1/3 bag of bentonite chips.



VP-10

### Well / Drillhole / Borehole Filling & Sealing Form 3300-005 (R 4/08) Page 1 of

Page 1 of 2

Notice: Completion of this report is required by chs. 160, 281, 283, 289, 291-293, 295, and 299. Wis. Stats., and ch. NR 141, Wis. Adm. Code. In accordance with chs. 281, 289, 291-293, 295, and 299, Wis. Stats., failure to file this form may result in a forfeiture of between \$10-25,000, or imprisonment for up to one year, depending on the program and conduct involved. Personally identificable information on this form is not intended to be used for any other purpose. Return form to the appropriate DNR office and bureau. See instructions on reverse for more information.

[x] Verification Only	of Fill and Seal	Drinking Wa	200	=	Watershed/Waters	astewater	Reme	diation/Redevelopment			
1. Well Location Infor	mation	A STATE OF STREET	. 1131	2. Facility	/ Owner In	formation	SUNT				
County	WI Unique Well # of Removed Well	Hicap #		Facility Name Former Allis Chalmers Landfill							
MILWAUKEE		_		Facility ID (F	ID or PWS)	Anna Cuannata Car	aditii				
Lattitude / Longitude (Deg	rees and Minutes) Met	hod Code (see instru	uctions)	acurà in li		241182480					
'	'N			License/Perr	nit/Monitoring						
	·w					293					
MIN NE M SY	V Section	Township Range	1.15	Original Well	Owner						
or Gov't Lot #	18	6 N 21	XE		Cu	ywreco, Inc.					
Well Street Address		O NIZZ	W	Present Well							
11815 W Morgan Ave						ilwaukee County					
Well City, Village or Town		Well ZIP Code		Mailing Addr	ess of Preser			C4- 1003			
Greenfield		53203-		Oh. of Dance	at Owner	633 W Wise	State	ZIP Code			
Subdivision Name		Lot#		City of Prese		aubaa	WI	53203-			
				A Burns I		aukee n, Casing & Sea					
Reason For Removal From	m Service   M Unique	Nell # of Replacemen	it Well								
No longer in use					piping remov	ved?		Yes No NA			
3. Well / Drillhole / Bo	AND THE PERSON NAMED IN COLUMN TWO		10.00	Liner(s) re				Ives One One			
Monitoring Well .	The second secon	uction Date (mm/dd/)	AAAA)	Screen re							
Water Well		8/3/2007			t in place?						
X Borehole / Drillhole	please attach.	ruction Report is avail	lable,		g cut off belo			Jyes X No DINA			
Construction Type:	There are a second			12.00	•	e to surface?					
	Driven (Sandpoint)	Dug		If yes,	ial settle after , was hole reli e chips were i from a known		E SE	Iyes (X)no ∏n/a Iyes □no (X)n/a Iyes □no □n/a			
Formation Type:	nation 🔲 B	edrock		Condu	ctor Pipe-Grav	g Sealing Material vity	Pipe-Pun	nped			
Total Well Depth From Gr	round Surface (ft.) Casi		.75	[X] Screen (Benton Seating Mate	ed & Poured vite Chips) rials	U Other (Exp	lain):				
Lower Drillhole Diameter	(in.) Casi	ing Depth (ft.)		Sand-C	ement Grout Gement (Conc		Bentoni	nd Slurry (11 lb./gal. wt.) te-Sand Slurry " "			
Was well annular space g	routed? Yes	No X Un	known	Concre		(X Monitoring Well Bor	Bentonii eholes Or				
If yes, to what depth (feet)	)? Depth to \	Vater (feet)		15	ite Chips ar Bentonite		onite - Cer onite - Sar	ment Grout nd Sturry			
5. Material Used To Fill	Well / Drillhole		41	From (ft.)	To (ft.)	Sacks Sea	alant	Mix Ratio			
3/8" Bentonite chips			17.8	Surface	10	0.3					
						-40.0					
6. Comments	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		2 27 2	COS MILES	100 m		SEAT F				
Abandoned 3/4" PVC	apor probe, VP-10										
7. Supervision of Wor							DNR Us	e Only			
Name of Person or Firm D	oing Filling & Sealing	License # Da	ite of Fil		(mm/dd/yyy	y) Date Received		loted By			
The Reese Group, LLC				7/9/2018		PONSTA	N. UTGE				
Street or Route 310 E B	Suffalo St, Suite 106			lephone Num 414 ) 326-9		Comments					
City Milwaukee	St	ate ZIP Code WI 53202-			Purson Dain	Work	P	late Signed 8/7/2018			
			TO U	1	V			G //2010			