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25 September 2023
File No. 27892-432/433

Connecticut Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford CT 06106-5127

Attention: Ray Frigon

Subject: Annual Status Report
Rochford Field and Villano Park (formerly Mill Rock Park)
Hamden, Connecticut
REM ID# 9148 and 9149

Ladies and Gentlemen:

On behalf of our client, Town of Hamden, Haley & Aldrich is pleased to submit this status report on groundwater monitoring activities at Rochford Field, Villano Park (formerly known as Mill Rock Park) and the Sewer Pump Station in Hamden, Connecticut during the period from July 2022 to September 2023. The site location is shown in Figure 1. Groundwater monitoring at the site has been conducted in accordance with our 2013 Remedial Action Plans (RAPs) which were approved by Connecticut Department of Energy and Environmental Protection (CTDEEP) in November 2013. Post remediation long-term groundwater monitoring has been ongoing since 2015 and demonstrates compliance with CTDEEP Remediation Standard Regulation Groundwater Protection Criteria (GWPC) for portions of Rochford Field and Villano Park located within the groundwater area classified as GAA. Further, the monitoring has also demonstrated compliance with CTDEEP RSR Residential Volatilization Criteria (RVC) and Surface Water Protection Criteria (SWPC) based on analytical data from both parks and nearby off-site downgradient wells.

SITE DESCRIPTION AND BACKGROUND

The 4.84-acre Rochford Field is bounded by Newhall and Newbury Streets to the west and south, respectively, Winchester Avenue to the east and Mill Rock Road to the north. A chain link fence surrounds the recreational facility, which includes a baseball field, a softball field, dugouts, backstops, and bleachers. The 2.94-acre Villano Park is located along Mill Rock Road and Wadsworth Street with a tree-lined chain link fence separating the property from residential properties on Bryden Terrace. The 0.12-acre Sewer Pump Station, presently owned by the Greater New Haven Water Pollution Control Authority (GNHWPCA) is located at the southeast corner of Mill Rock Road and Winchester Avenue, abutting the northwestern corner of Villano Park. The pump station building is a windowless, one-story structure surrounded by grassy lawn and a chain link fence.

The Town of Hamden acquired the Rochford and Villano parcels in the 1930s. The parcels, which were historically wetlands, were used as public refuse dumps and/or as an industrial landfill/depository for "coke fill" (charcoal residue and ash) in the 1920s or and 1930s. In late 1936 and 1937, the Rochford field parcel was graded and topped with approximately 6-inches of loam and used as a recreation field. The Town of Hamden developed Villano (then Mill Rock Park) as a park in 1940 and subsequently renovated the park in 1992 with the installation of approximately 1,300 cubic yards of gravel fill and expansion of, or upgrades to existing recreational facilities. The sewer pump station was constructed in 1952 on filled land that was acquired by the Town in 1939.

On 10 July 2001, CTDEEP issued Order No. SRD-128 to the Town of Hamden, South Central Regional Water Authority (RWA), Olin Corporation (Olin), and the State Board of Education. The Order required the respondents to investigate and remediate sources of pollution on a "site" which was subsequently divided into three portions that included both publicly and privately-owned properties. The Order required the Town to investigate, characterize, and remediate Rochford Field, Mill Rock (Villano) Park and the Sewer Pump Station.

Interim remedial actions and site investigations were undertaken between 2000 and 2013. Testing encountered impacted fill material containing polyaromatic hydrocarbons (PAHs), extractable total petroleum hydrocarbons (ETPH), and metals at concentrations above the CTDEEP Remediation Standard Regulations (RSRs). Groundwater analyses detected similar compounds to those found in site soil. In June 2013, Haley & Aldrich prepared Remedial Action Plans (RAPs) for the three parcels which were approved by CTDEEP in November 2013. The RAPS outlined remedial construction (caps). The cap (Engineered Control) was constructed in 2015. Natural attenuation and compliance groundwater monitoring (MNA) has been ongoing since that time and includes monitoring wells located within the two parks and two downgradient wells located along Newhall Street, immediately downgradient of Rochford Field. An Environmental Use Restriction (EUR) will be placed on the parks to complete the Engineered Control; work on the EUR is ongoing.

APPLICABLE CTDEEP RSR GROUNDWATER CRITERIA

Groundwater underlying the Site was historically classified as "GAA" by CTDEEP; a "GAA" classification indicates that the water resource is regulated for potential use as a public drinking water supply. In 2005, CTDEEP reclassified a portion of the site (including parts of Rochford Field and Villano Park) "GB"; a "GB" classification indicates that the water resource is not intended to be suitable for use as a drinking water supply without prior treatment. Both the "GAA" and "GB" groundwater classification areas and associated groundwater elevation contours are shown on Figure 2. Recent groundwater elevation measurements have confirmed that groundwater flow has remained consistent over time. A public water supply system is used to supply potable water to area residences and businesses. Groundwater flow beneath the site is primarily to the west and southwest from Villano Park towards Rochford Field flowing from the GAA into the GB area. Based on groundwater elevation contour maps, there is also a northwesterly component of flow in the far northwestern portion of Rochford Field within the area classified as a "GAA" resource (see Figure 2).

Applicable RSR criteria for groundwater quality are:

- Groundwater Protection Criteria (GWPC) ("GAA" area of the site)
- Surface Water Protection Criteria (SWPC) and,
- Residential Volatilization Criteria (RVC).

GROUNDWATER MONITORING PROGRAM

In accordance with the CTDEEP-approved RAPs, Haley & Aldrich has conducted MNA or compliance groundwater monitoring on a quarterly or annual basis since completion of remedial actions in 2015. Originally, the groundwater monitoring network includes seven monitoring wells at Rochford Field (RF-HA108-MW, RF-HA108-MWD, RF-HA110-MW, RF-HA115-MW, RF-HA123-MW, RF-HA207-MW, and RF-HA301-MW) and five monitoring wells at Villano Park (MRP-HA101-MW, MRP-HA103-MW, MRP-HA201-MW, MRP-HA202-MW and MRP-HA-204). Well locations are shown on Figure 2.

The Rochford Field wells are located downgradient of the Villano Park wells, with respect to the direction of overburden groundwater flow. Groundwater flow beneath Rochford Field is both northwesterly (in the GAA area) and southwesterly (in the GB area). The northwesterly flow component discharges into an unnamed surface water body (stream) on the northwest side of Mill Rock Road which flows northerly towards Lake Whitney. The southwesterly flow component discharges into Beaver Pond and ultimately the West River to the southwest.

In April 2020, Haley & Aldrich submitted a request to CTDEEP to change the monitoring program, eliminating certain upgradient wells (including the wells in Villano Park and Rochford Field wells RF-HA108-MWD, RF-HA110-MW and RF-HA207-MW) or eliminating certain monitoring parameters for which diminishing trends and/or RSR compliance had been demonstrated.

Beginning in 2022, Haley & Aldrich sampled two new monitoring well locations (designated as RF-401-MW and RF-402-MW), which are located on Town of Hamden property, along Newhall Street and downgradient of Rochford Field and Villano Park. The wells are located between Rochford Field and the downgradient surface water discharge locations. The additional locations, which are shown on Figure 2, include:

- The former MW-1, installed by WSP, Inc. (and renamed as RF-401-MW by Haley & Aldrich) and located on town property downgradient of the northern portion of Rochford Field ("GAA area") and Villano Park; and,
- A new well (RF-402-MW), located on Town of Hamden property near the corner of Newbury and Newhall Streets hydrologically downgradient of the southern portion of Rochford Field (and Villano Park).

In a June 2022 letter to CTDEEP (attached), Haley & Aldrich recommended eliminating sampling of the remaining Rochford Field wells because RSR GWPC compliance had been demonstrated and downgradient off-site wells (RF-401-MW and RF-402-MW) were being used to demonstrate SWPC compliance for select metals.

From February 2022 through December 2022, Haley used low flow purging and sampling methodology to sample RF-401-MW and RF-402-MW for selected total metals (arsenic, copper, lead, mercury, and zinc) via USEPA Method 200.7 or 245.2. The monitoring results were tabulated and compared against the GWPC and SWPC, as applicable, and summarized in Tables Ia (wells within the GAA groundwater classification area) and Table Ib (wells within the GB groundwater classification area.)

Summary of Groundwater Monitoring and Results

Results from the recent 2022 quarterly sampling events are summarized on Tables Ia and Ib along with results from previous monitoring events conducted since 2015. The laboratory data reports for February, April, June, September, and December 2022 are attached to this letter.

The following is a summary of analytical results:

Downgradient wells (RF-401-MW and RF-401-MW)

RF-401-MW- The well, located in the GAA groundwater area, was sampled for total arsenic, copper, lead, mercury, and zinc. Except for total zinc, detected between 0.037 mg/L to 0.092 mg/L in three of the four events, no metals were detected above the laboratory detection limits. The concentrations of zinc detected do not exceed CTDEEP RSR GWPC or SWPC.

RF-402-MW – The well, located in and downgradient of the GB groundwater area, was sampled for total arsenic, copper, lead, mercury, and zinc; no metals were detected above the laboratory detection limits or CTDEEP RSR SWPC during the four sampling events.

CONCLUSIONS & RECOMMENDATIONS

Post remediation long-term groundwater monitoring analytical data collected since 2015 demonstrates CTDEEP RSR GWPC compliance in the GAA portions of Rochford Field and Villano Park. CTDEEP RSR RVC and SWPC compliance has been demonstrated from analytical data from both sites and from more recently installed nearby off-site downgradient wells.

In our opinion, the Town of Hamden has satisfied long-term groundwater monitoring program requirements as outlined in the CTDEEP-approved Remedial Action Plans for Rochford Field and Villano Park and that the properties are in compliance with RSR GWPC, RVC and/or SWPC. We therefore recommend cessation of groundwater monitoring and proper abandonment of the wells.

Since this is a CTDEEP-lead project, we request that CTDEEP issue a letter confirming that the Rochford Field and Villano Park Long-term Groundwater Monitoring Programs have reached their desired goal of documenting groundwater compliance and can be concluded.

Sincerely yours,
HALEY & ALDRICH, INC.

Deborah Motycka Downie, LEP
Senior Technical Specialist

Chris G. Harriman, LEP
Senior Associate

Attachments:
Table Ia - Summary of GAA Groundwater Area Analytical Data for Rochford Field
Table Ib - Summary of GB Groundwater Area Analytical Data for Rochford Field
Figure 1 – Site Locus
Figure 2 – Well Locations and Groundwater Classification
Figure 3 - Inferred Groundwater Flow Plan
Laboratory Analytical Data for 2022
June 2022 Letter to CTDEEP

c: Town of Hamden, Erik Johnson

TABLE Ia
SUMMARY OF "GAA" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		GA/GAA Groundwater Protection Criteria	Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA108-MW									RF-HA108-MWD								
					Comments:																		
					Sample Date:	31-Dec-15	30-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21	19-Nov-04	27-Oct-14	31-Dec-15	30-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	28-Mar-18	17-May-19
Volatile Organic Compounds (ug/l):					***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***524.2***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
Benzene		1	710	130		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		6	14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		18	10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	0.98	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		1000	4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polyaromatic Hydrocarbons (PAHs) ug/L					***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***525.2***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		28	62	1000		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		420	150	30500		2.1	5.2	4.7	7.3	5	4.7	2.9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		420	0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		2,000	1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene		0.06	0.3	NE		ND	ND	ND	ND	**0.11**	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene		0.08	0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		5	53	NE		--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
Dibenzofuran		7	40	460		--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
Fluoranthene		280	3,700	NE		1.1	1.3	1.8	2.8	1.8	2	1.1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		280	140,000	NE		2.3	5.9	5.3	9.1	6.4	6.1	2.5	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		200	14	NE		ND	0.77	0.93	1.2	0.72	ND	0.08	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		200	110,000	NE		ND	ND	1.1	1.7	1.1	1.2	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
					Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CTETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	0.25	NE		ND	0.12	ND	0.22	ND	0.21	ND	--	--	ND	ND	ND	0.2	ND	0.25	0.15	ND	ND
Total Metals (mg/l):	***Method***					***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***			***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.05	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	**0.0047**	ND	ND	ND	ND	ND	ND	ND	ND
Barium	***200.8***	10	2.2	NE		--	--	--	--	--	--	--	--	--	**--**	0.056	--	--	--	--	--	--	--
Copper	***200.8***	1.3	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	***200.8***	0.015	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.002	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	***200.8***	0.1	0.88	NE		0.05	ND	0.092	ND	ND	0.058	0.081	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	6.0	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	0.05	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	0.011
Silver	***200.8***	0.036	0.012	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.005	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	***200.8***	5	0.123	NE		**0.21**	**0.13**	**0.21**	0.036	**0.35**	**0.34**	**0.38**	**0.21**	0.086	0.017	ND	ND	ND	0.023	ND	ND	ND	ND
Other Analyses (mg/l)																							
Alkalinity ($CaCO_3$)	***310.1***	--	--	--		--	--	--	--	--	--	--		--	230	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--	--		--	--	--	--	--	--	--		--	4.6	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--	--		--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--	--		--	--	--	--	--	--	--		--	8.6	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--	--		--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--		--	11	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--		--	1.5	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--	--		--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--
pH	***150.1***	--	--	--		--	--	--	--	--	--	--		--	6.45	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--	--		--	--	--	--	--	--	--		--	1.8	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***		--	--		--	--	--	--	--	--	--		--	230	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--	--		--	--	--	--	--	--	--		--	28	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ia
SUMMARY OF "GAA" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		GA/GAA Groundwater Protection Criteria	Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA110-MW								RF-401-MW			
					Comments:												
					Sample Date:	27-Oct-14	31-Dec-15	31-Mar-16	29-Jun-16	19-Oct-16	29-Mar-17	28-Mar-18	17-May-19	14-Feb-22	8-Apr-22	14-Jun-22	23-Sep-22
Volatile Organic Compounds (ug/l):					***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***524.2***	***524.2***	***524.2***	***524.2***
Benzene		1	710	130		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Chloroform		6	14,100	26		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Chloromethane		18	10,000	130		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Toluene		1000	4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Polyaromatic Hydrocarbons (PAHs) ug/L					***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***525.2***	***525.2***	***525.2***	***525.2***
2-Methyl Naphthalene		28	62	1000		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Acenaphthene		420	150	30500		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Acenaphthylene		420	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Anthracene		2,000	1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzo[a]anthracene		0.06	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzo[b]fluoranthene		0.08	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Carbazole		5	53	NE		--	--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran		7	40	460		--	--	--	--	--	--	--	--	--	--	--	--
Fluoranthene		280	3,700	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Fluorene		280	140,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Phenanthrene		200	14	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Pyrene		200	110,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
					Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	0.25	NE		**0.27**	**0.71**	**0.32**	ND	**0.51**	**0.29**	**0.21**	**0.34**	--			
Total Metals (mg/l):	***Method***						***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***				
Arsenic	***200.8***	0.05	0.004	NE		**0.0086**	**0.033**	**0.013**	**0.02**	**0.031**	**0.0062**	**0.011**	**0.018**	ND	ND	ND	ND
Barium	***200.8***	10	2.2	NE		0.15	--	--	--	--	--	--	--	--	--	--	--
Copper	***200.8***	1.3	0.048	NE		**0.23**	**0.19**	**0.16**	**0.11**	**0.073**	**0.18**	**0.28**	**0.08**	ND	ND	ND	ND
Lead	***200.8***	0.015	0.013	NE		**0.27**	**0.16**	**0.10**	**0.10**	**0.061**	**0.19**	**0.19**	**0.26**	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.002	0.0004	NE		**0.00078**	**0.0015**	**0.001**	**0.00083**	**0.00058**	**0.0021**	**0.0024**	**0.0011**	ND	ND	ND	ND
Nickel	***200.8***	0.1	0.88	NE		**0.67**	**0.55**	**0.51**	**0.69**	**0.78**	**0.41**	**0.35**	**0.11**	--	--	--	--
Potassium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	0.05	NE		ND	ND	ND	ND	ND	ND	ND	0.022	--	--	--	--
Silver	***200.8***	0.036	0.012	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Sodium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.005	0.063	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Zinc	***200.8***	5	0.123	NE		**11**	**4.7**	**6.2**	**5.2**	**6.3**	**3.5**	**0.94**	**0.66**	0.037	0.092	ND	0.071
Other Analyses (mg/l)																	
Alkalinity ($CaCO_3$)	***310.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
pH	***150.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***		--	--		--	--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--	--		--	--	--	--	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID: / Comments: / Sample Date:	RF-HA115-MW 31-Dec-15	31-Mar-16	29-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	ND	--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	ND	--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	ND	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	ND	--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	ND	--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	ND	--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Phenanthrene		14	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***		
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***		***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CTETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	**0.29**	ND	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Lead	***200.8***	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	0.018	ND	ND	ND	--	--
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Zinc	***200.8***	0.123	NE		**0.2**	**0.34**	**0.2**	**0.15**	**0.27**	**1.1**	**0.37**	0.093	**0.58**
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--	--	--
Other Analyses (mg/l)													
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
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4. NE means numeric RSR criteria not established by CTDEEP.
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6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID: / Comments: / Sample Date:	RF-HA123-MW 31-Dec-15	31-Mar-16	28-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***		
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	--	--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	--	--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***		***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	--	--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	--	--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Phenanthrene		14	NE		ND	**0.31**	ND	ND	ND	ND	ND	--	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--		--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	ND	0.16	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	**0.0065**	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	0.29	0.33
Copper	***200.8***	0.048	NE		**0.091**	**0.06**	**0.064**	**0.077**	**0.077**	**0.16**	**0.089**	ND	ND
Lead	***200.8***	0.013	NE		**0.042**	**0.021**	**0.017**	**0.016**	**0.023**	**0.09**	**0.037**	ND	**0.021**
Mercury	***7470A / 245.2***	0.0004	NE		**0.00067**	0.00028	ND	**0.00068**	**0.0022**	**0.0039**	**0.0021**	ND	ND
Nickel	***200.8***	0.88	NE		0.15	0.15	0.17	0.17	0.11	0.11	0.22	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Zinc	***200.8***	0.123	NE		**1.2**	**1.3**	**1.3**	**1.3**	**0.94**	**1.1**	**1.5**	**0.62**	**0.81**
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--		--
Other Analyses (mg/l)													
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--		--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--		--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--		--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--		--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--		--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--		--
pH	***150.1***	--	--		--	--	--	--	--	--	--		--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--		--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--		--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--		--

NOTES:
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Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID: / Comments: / Sample Date:	RF-HA207-MW 31-Dec-15	31-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	27-Mar-18	16-May-19
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene		150	30500		ND	ND	ND	1.2	ND	ND	ND
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene		0.3	NE		0.15	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene		0.3	NE		0.14	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND
Fluorene		140,000	NE		ND	ND	ND	2.3	ND	ND	ND
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND
Phenanthrene		14	NE		0.17	ND	0.35	3.0	0.47	ND	ND
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	0.14	ND	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	**0.0073**	**0.0081**	**0.0097**	ND	ND	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND
Lead	***200.8***	0.013	NE		**0.013**	ND	ND	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND
Zinc	***200.8***	0.123	NE		0.085	0.095	0.07	0.025	**0.15**	0.11	ND
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--
Other Analyses (mg/l)											
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
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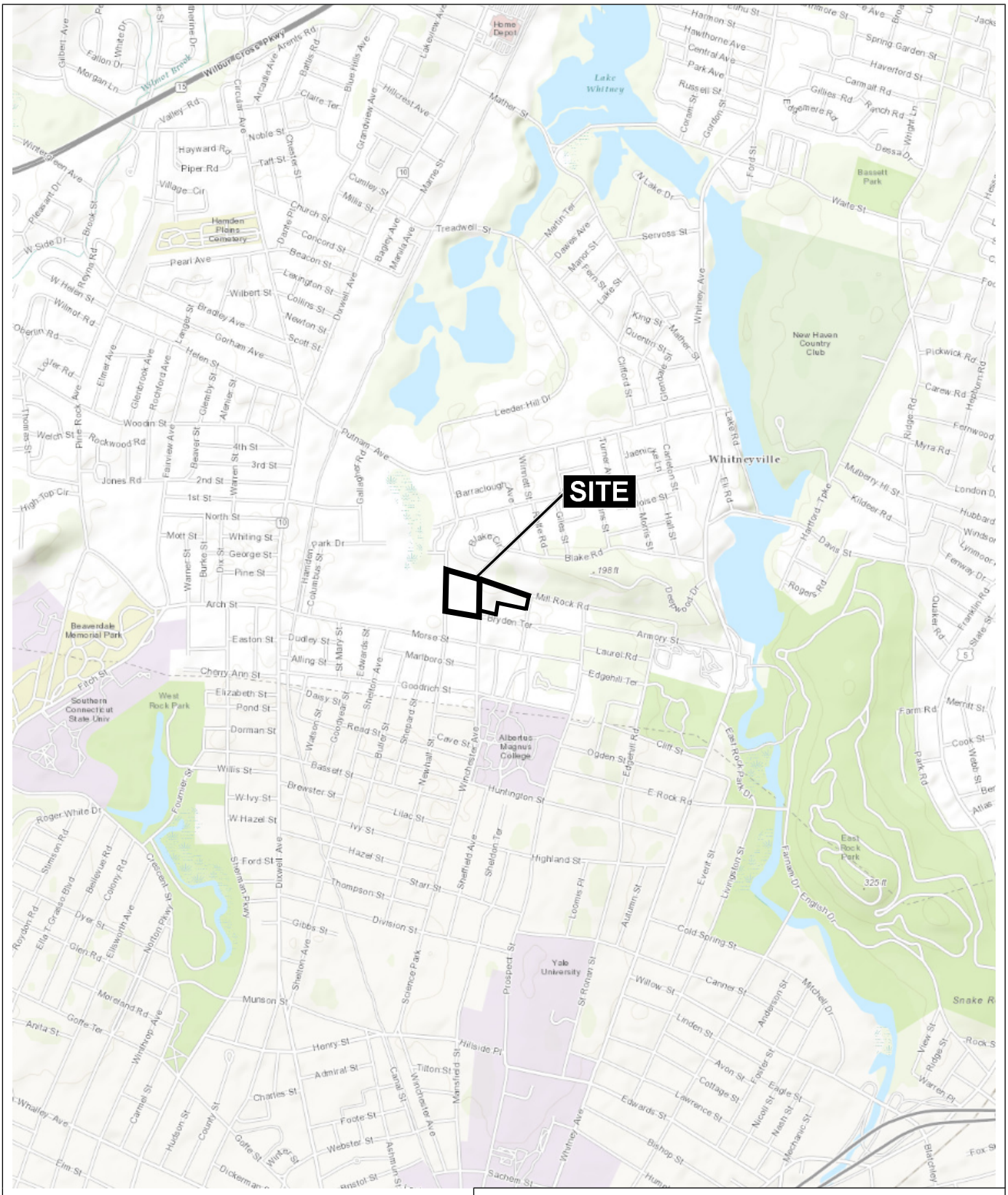
Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA301-MW									RF-402-MW			
				Comments:													
				Sample Date:	31-Dec-15	31-Mar-16	28-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21	8-Apr-22	14-Jun-22	23-Sep-22	15-Dec-22
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***			***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	--	--	--			--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Phenanthrene		14	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***		***200.7/245.2***	***200.7/245.2***	
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Lead	***200.8***	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--	--	--
Zinc	***200.8***	0.123	NE		ND	ND	ND	ND	ND	ND	**0.26**	**0.2**	0.1	ND	ND	ND	ND
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Other Analyses (mg/l)																	
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.



MAP SOURCE: ESRI

SITE COORDINATES: 41°20'19"N, 72°55'24"W

HALEY ALDRICH

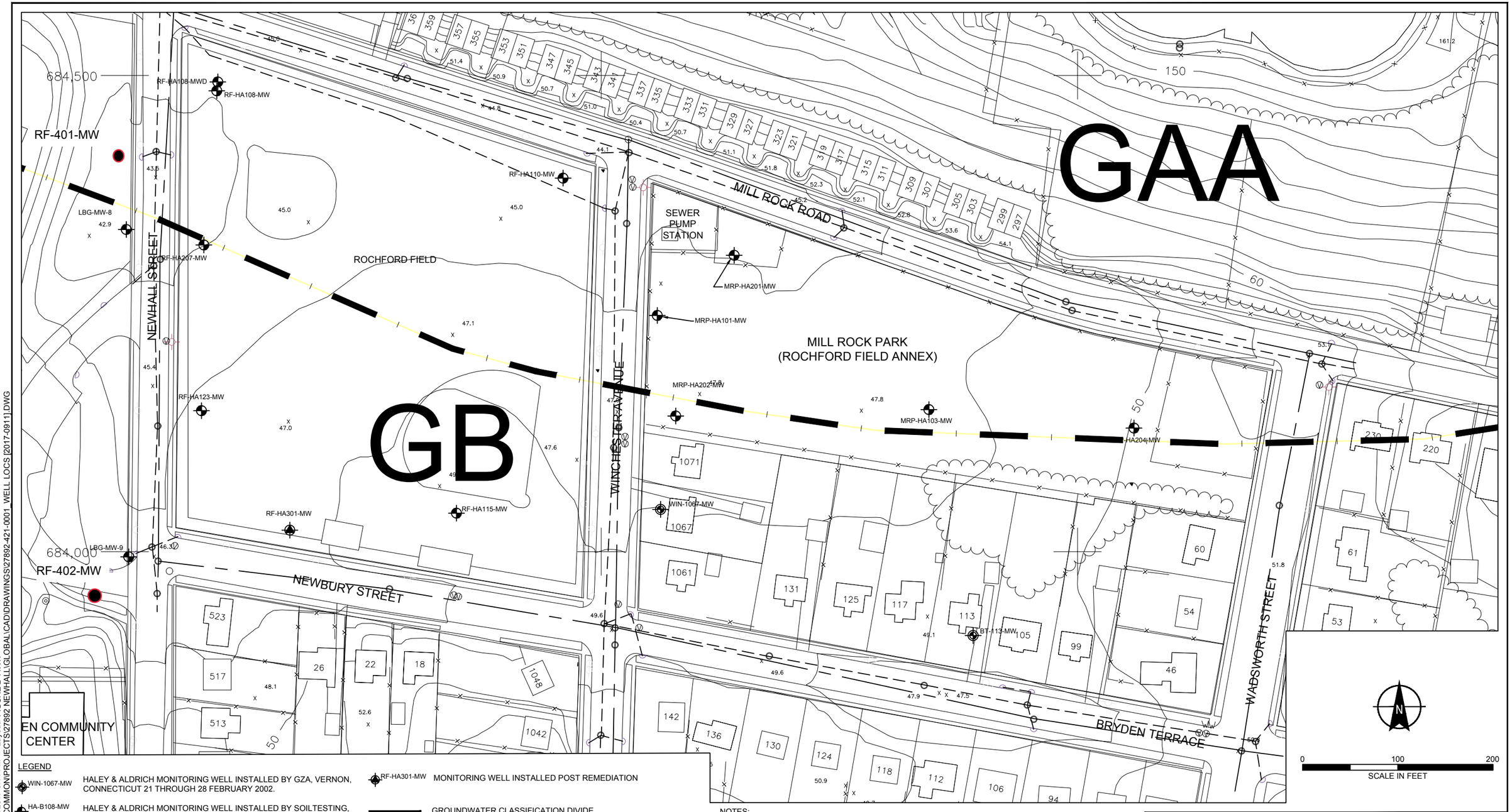
ANNUAL STATUS REPORT
ROCHFORD FIELD AND VILLANO PARK
HAMDEN, CONNECTICUT

SITE LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
MARCH 2017

FIGURE 1

27892-428_1_LOCUS.PDF



LEGEND

WIN-1067-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY GZA, VERNON, CONNECTICUT 21 THROUGH 28 FEBRUARY 2002.
HA-B108-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., IN JULY 2002.
RF-HA114	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., OXFORD, CONNECTICUT ON 9 THROUGH 23 AUGUST 2002.
MRP-HA201-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY NEW ENGLAND BORING CONTRACTORS, INC., GLASTONBURY, CONNECTICUT 18 OCTOBER THROUGH 12 NOVEMBER 2004.
LBG-MW-9	LEGGETTE, BRASHEARS & GRAHAM (LBG) MONITORING WELL
	APPROXIMATE LOCATION OF SANITARY SEWER LINE (SEE NOTE 3)
	APPROXIMATE LOCATION OF STORM SEWER LINE (SEE NOTE 3)
RF-HA301-MW	MONITORING WELL INSTALLED POST REMEDIATION
	GROUNDWATER CLASSIFICATION DIVIDE
GB	GROUNDWATER CLASSIFICATION AREA
RF-MW-401	LBG MONITORING WELL RENAMED RF-401-MW
RF-MW-402	HALEY & ALDRICH MONITORING WELL INSTALLED BY SEABOARD DRILLING OF CHICOPEE, MASSACHUSETTS IN MARCH 2022.

NOTES:

1. BASE PLAN FROM CAD FILES H2126, H2127, HC2126c AND H2127c DATED 24 AUGUST 2001-TOWN OF HAMDEN ASSESSORS MAP REVISED APRIL 2000.
2. GROUNDWATER ELEVATIONS FOR LBG-MW-3, LBG-MW-8 AND LBG-MW-9 WERE OBTAINED BY LEGGETTE, BRASHEARS & GRAHAM ON 19 NOVEMBER 2004 & 7 FEBRUARY 2005. GROUNDWATER ELEVATIONS FOR MONITORING WELLS HA-B108-MW, HA-B109-MW, BT-113-MW, MS-109-MW, NH-499-MW AND WIN-1067-MW WERE OBTAINED FROM MALCOLM PIRNIE ON 16 NOVEMBER 2004 & 7 FEBRUARY 2005.
3. LOCATION OF SANITARY SEWER AND STORM SEWER LINE WERE TAKEN FROM TOWN OF HAMDEN "STORM SEWER PLANS, AMENDED JANUARY 1999". LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE RELIED ON FOR EXPLORATION OR CONSTRUCTION PURPOSES.

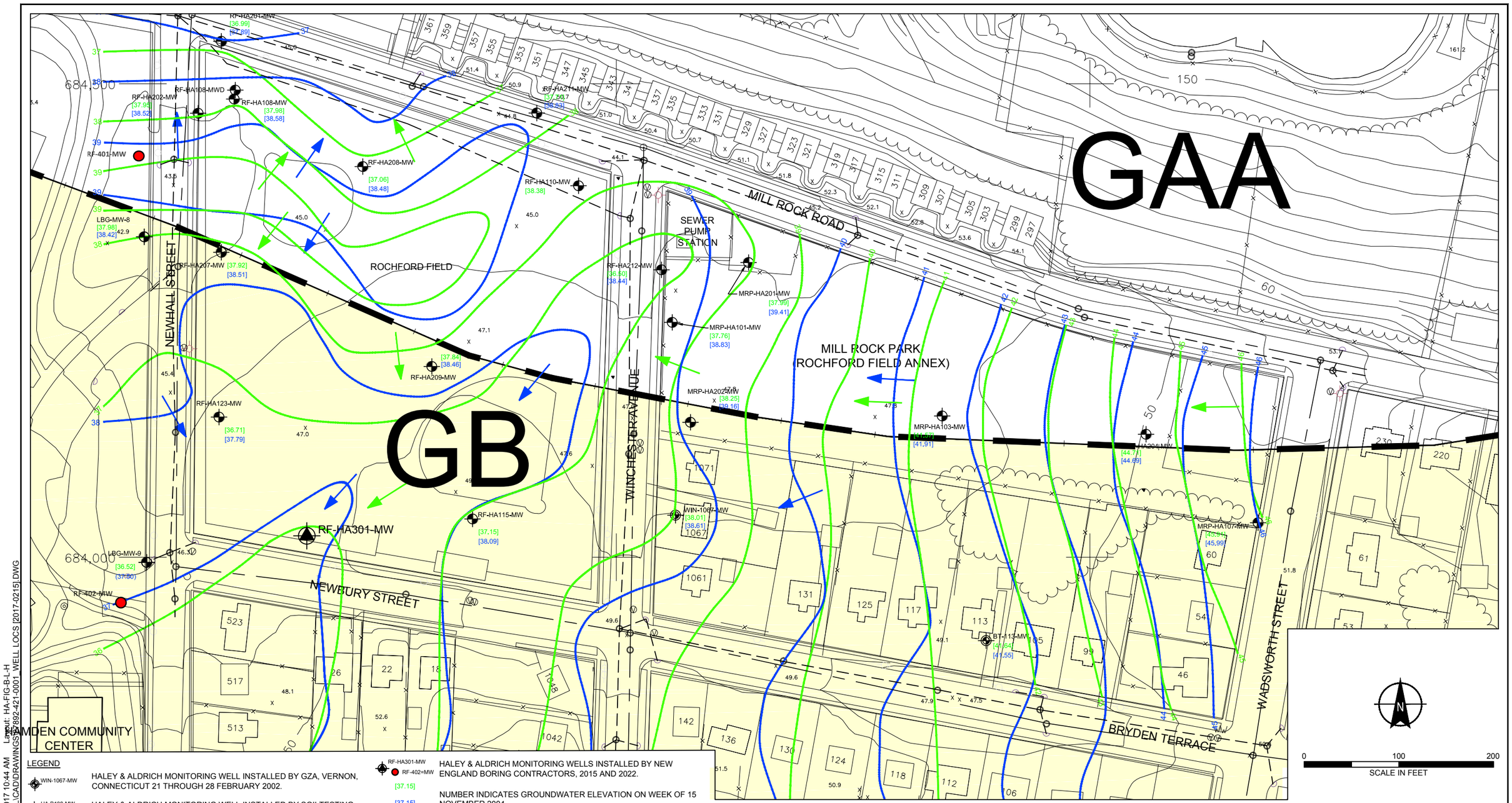
HALEY ALDRICH

ROCHFORD FIELD AND VILLANO PARK
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT

WELL LOCATIONS AND GROUNDWATER CLASSIFICATION

SCALE: AS SHOWN
OCTOBER 2017

FIGURE 2



LEGEND

WIN-1067-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY GZA, VERNON, CONNECTICUT 21 THROUGH 28 FEBRUARY 2002.
HA-B108-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., IN JULY 2002.
RF-HA114	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., OXFORD, CONNECTICUT ON 9 THROUGH 23 AUGUST 2002.
XXX-HA201-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY NEW ENGLAND BORING CONTRACTORS, INC., GLASTONBURY, CONNECTICUT 18 OCTOBER THROUGH 12 NOVEMBER 2004.
LBG-MW-9	LEGGETTE, BRASHEARS & GRAHAM (LBG) MONITORING WELL
———	APPROXIMATE LOCATION OF SANITARY SEWER LINE (SEE NOTE 3)
— — —	APPROXIMATE LOCATION OF STORM SEWER LINE (SEE NOTE 3)

RF-HA301-MW / RF-402=MW	HALEY & ALDRICH MONITORING WELLS INSTALLED BY NEW ENGLAND BORING CONTRACTORS, 2015 AND 2022.
[37.15]	NUMBER INDICATES GROUNDWATER ELEVATION ON WEEK OF 15 NOVEMBER 2004.
[37.15]	NUMBER INDICATES GROUNDWATER ELEVATION ON 7 FEBRUARY 2005.
39	GROUNDWATER CONTOUR LINE NOVEMBER 2004. (ARROW INDICATES APPROXIMATE DIRECTION OF GROUNDWATER FLOW).
39	GROUNDWATER CONTOUR LINE FEBRUARY 2005. (ARROW INDICATES APPROXIMATE DIRECTION OF GROUNDWATER FLOW).
	GROUNDWATER CLASSIFICATION DIVIDE
GB	GROUNDWATER CLASSIFICATION AREA

NOTES:

1. BASE PLAN FROM CAD FILES H2126, H2127, HC2126c AND H2127c DATED 24 AUGUST 2001-TOWN OF HAMDEN ASSESSORS MAP REVISED APRIL 2000.
2. GROUNDWATER ELEVATIONS FOR LBG-MW-3, LBG-MW-8 AND LBG-MW-9 WERE OBTAINED BY LEGGETTE, BRASHEARS & GRAHAM ON 19 NOVEMBER 2004 & 7 FEBRUARY 2005. GROUNDWATER ELEVATIONS FOR MONITORING WELLS HA-B108-MW, HA-B109-MW, BT-113-MW, MS-109-MW, NH-499-MW AND WIN-1067-MW WERE OBTAINED FROM MALCOLM PIRNIE ON 16 NOVEMBER 2004 & 7 FEBRUARY 2005.
3. LOCATION OF SANITARY SEWER AND STORM SEWER LINE WERE TAKEN FROM TOWN OF HAMDEN "STORM SEWER PLANS, AMENDED JANUARY 1999". LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE RELIED ON FOR EXPLORATION OR CONSTRUCTION PURPOSES.

0 100 200
SCALE IN FEET

HALEY ALDRICH

ROCHFORD FIELD AND MILL ROCK PARK
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT

INFERRED GROUNDWATER FLOW PLAN

SCALE: AS SHOWN
FEBRUARY 2017

FIGURE 3

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2020307

Report Date:February 17, 2022
Project: 27892-430
Project Number: Rochford Field, Hamden

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 5.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1	2020307-01	Water	2/14/2022 12:45	02/14/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.00020	mg/L	1	B2B1510	02/15/2022	02/15/2022 14:57	

Analyte: Total Zinc [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	0.037	0.020	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

Analyte: Total Lead [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.013	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

Analyte: Total Copper [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.040	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

CET # : 2020307
Project: 27892-430
Project Number: Rochford Field, Hamden

Analyte: Total Arsenic [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.0040	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

QUALITY CONTROL SECTION

Batch B2B1510 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2B1510-BLK1)					Prepared: 2/15/2022 Analyzed: 2/15/2022				
Mercury	ND	0.00020							
LCS (B2B1510-BS1)					Prepared: 2/15/2022 Analyzed: 2/15/2022				
Mercury	0.00512	0.00020	0.005		102	85 - 115			

Batch B2B1601 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2B1601-BLK1)					Prepared: 2/16/2022 Analyzed: 2/16/2022				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2B1601-BS1)					Prepared: 2/16/2022 Analyzed: 2/16/2022				
Lead	0.206	0.013	0.200		103	85 - 115			
Arsenic	0.205	0.0040	0.200		102	85 - 115			
Copper	0.206	0.040	0.200		103	85 - 115			
Zinc	0.214	0.020	0.200		107	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-430 ***Project Number:*** Rochford Field, Hamden

Laboratory Sample ID(s): ***Sample Date(s):***

2020307-01 02/14/2022

List RCP Methods Used: ***CET #:*** 2020307

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 02/17/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2B1601	S2B1603	2020307-01	MW-1	EPA 200.7	Water	02/14/2022
B2B1510		2020307-01	MW-1	EPA 245.2	Water	02/14/2022

2020307

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Turnaround Time ** (check one) Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total Metals	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
MW-1	2/14 1245	W					X												X							1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Greg Brashen	2/14 1445	2/14/22 14:45
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place Suite 105
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motychka E-mail: DMotychkaDonnie@haleyaldrich.com
Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:
Location: Hamden, CT Project #: 27892-430
CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ PDF ☐ EDD - Specify Format Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA

Temp Upon Receipt 5.0 °C Evidence of Cooling: (Y) N

PAGE OF

*** Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.**

REV. 12/18

Jacqueline M. Bakos

From: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Sent: Monday, February 14, 2022 5:08 PM
To: Jacqueline M. Bakos
Subject: RE: list of metals

Sorry Jacqui,
we need:

total metals (arsenic, copper, lead, mercury, zinc).

Thanks
Debbie

Deborah L. Motycka Downie, LEP
Senior Technical Specialist
Haley & Aldrich, Inc.
100 Corporate Place, Suite 105
Rocky Hill, CT 06067
Cell: 857.488.7477
Phone:860.572.3939
dmotyckadownie@haleyaldrich.com
www.haleyaldrich.com

From: Jacqueline M. Bakos <jbakos4@cetlabs.com>
Sent: Monday, February 14, 2022 3:51 PM
To: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Subject: list of metals

CAUTION: External Email

Deb,
For the attached chain what list of metals are you looking for??
Thank you

Jacqui Bakos
Sample Manager
Complete Environmental Testing, Inc.
Phone: (203) 377-9984
Fax: (203) 377-9952
www.cetlabs.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2040218

Report Date:April 15, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 027892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-401	2040218-01	Water	4/08/2022 9:50	04/08/2022
RF-402	2040218-02	Water	4/08/2022 12:00	04/08/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2040218-01	RF-401	ND	0.00020	mg/L	1	B2D1406	04/14/2022	04/14/2022 15:34	
2040218-02	RF-402	ND	0.00020	mg/L	1	B2D1406	04/14/2022	04/14/2022 15:36	

Client Sample ID RF-401

Lab ID: 2040218-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Arsenic	ND	0.0040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Copper	ND	0.040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Zinc	**0.092**	0.020	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	

Client Sample ID RF-402

Lab ID: 2040218-02

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Arsenic	ND	0.0040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Copper	ND	0.040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Zinc	ND	0.020	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	

QUALITY CONTROL SECTION

Batch B2D1202 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2D1202-BLK1)					Prepared: 4/12/22 Analyzed: 4/12/22				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2D1202-BS1)					Prepared: 4/12/22 Analyzed: 4/12/22				
Lead	0.193	0.013	0.200		96.7	85 - 115			
Arsenic	0.200	0.0040	0.200		100	85 - 115			
Copper	0.199	0.040	0.200		99.3	85 - 115			
Zinc	0.195	0.020	0.200		97.5	85 - 115			

Batch B2D1406 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2D1406-BLK1)					Prepared: 4/14/22 Analyzed: 4/14/22				
Mercury	ND	0.00020							
LCS (B2D1406-BS1)					Prepared: 4/14/22 Analyzed: 4/14/22				
Mercury	0.00492	0.00020	0.005		98.4	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 027892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2040218-01 thru 2040218-02 04/08/2022

List RCP Methods Used: ***CET #:*** 2040218

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 04/14/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2D1202	S2D1208	2040218-01	RF-401	EPA 200.7	Water	04/08/2022
B2D1202	S2D1208	2040218-02	RF-402	EPA 200.7	Water	04/08/2022
B2D1406		2040218-01	RF-401	EPA 245.2	Water	04/08/2022
B2D1406		2040218-02	RF-402	EPA 245.2	Water	04/08/2022

2040218

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: Metals

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals	TOTAL # OF CONT.	NOTE #
RF-401	4/8 0950	W	X									X	1	
RF-402	4/8 1200	W	X									X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	4/8 1203	[signature]
[signature]	4-8-22 13120	[signature] 04/08/22 13[illegible]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place Suite 105
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motyckka
E-mail: ~~dmotyckka@haleyaldrich.com~~ dmotyckka@haleyaldrich.com 4/8/22
Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:
Location: Hamden, CT Project #: 027892-433
CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 5.1 °C Evidence of Cooling: Y N

PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

2040218

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs ☐ SOX ☐ ASE, Pesticides

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	Metals	TOTAL # OF CONT.	NOTE #
RF-401	4/8 0950	W					X	X	1	
RF-402	4/8 1200	W					X	X	1	

Test for Total: mercury, zinc, lead, copper and arsenic

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Greg Redon	4/8 1203	
	4-8-22 13120	04/08/22 13[illegible]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Hartley & Aldrich

Address: 100 Corporate Place Suite 105

City: Rocky Hill State: CT Zip: 06067

Report To: Deb Motycka E-mail: dmotycka@hartleyaldrich.com

Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:

Location: Hamden, CT Project #: 027892-433

CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ PDF ☐ EDD - Specify Format Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA

Temp Upon Receipt 3.1 °C Evidence of Cooling: (Y) N

PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2060389

Report Date:June 20, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 27892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 6.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-402	2060389-01	Water	6/14/2022 9:10	06/14/2022
RF-401	2060389-02	Water	6/14/2022 10:30	06/14/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2060389-01	RF-402	ND	0.00020	mg/L	1	B2F1510	06/15/2022	06/15/2022 15:21	
2060389-02	RF-401	ND	0.00020	mg/L	1	B2F1510	06/15/2022	06/15/2022 15:23	

Client Sample ID RF-402

Lab ID: 2060389-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Arsenic	ND	0.0040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Copper	ND	0.040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Zinc	ND	0.020	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	

Client Sample ID RF-401

Lab ID: 2060389-02

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Arsenic	ND	0.0040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Copper	ND	0.040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Zinc	ND	0.020	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	

QUALITY CONTROL SECTION

Batch B2F1508 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2F1508-BLK1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2F1508-BS1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Lead	0.200	0.013	0.200		100	85 - 115			
Arsenic	0.196	0.0040	0.200		98.0	85 - 115			
Copper	0.195	0.040	0.200		97.3	85 - 115			
Zinc	0.211	0.020	0.200		105	85 - 115			

Batch B2F1510 - EPA 245.2

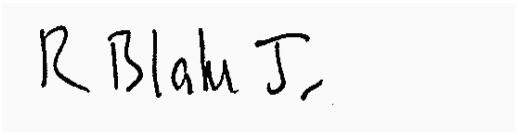
Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2F1510-BLK1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Mercury	ND	0.00020							
LCS (B2F1510-BS1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Mercury	0.00502	0.00020	0.005		100	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Robert Blake



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 27892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2060389-01 thru 2060389-02 06/14/2022

List RCP Methods Used: ***CET #:*** 2060389

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 06/20/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2F1508	S2F1504	2060389-01	RF-402	EPA 200.7	Water	06/14/2022
B2F1508	S2F1504	2060389-02	RF-401	EPA 200.7	Water	06/14/2022
B2F1510		2060389-01	RF-402	EPA 245.2	Water	06/14/2022
B2F1510		2060389-02	RF-401	EPA 245.2	Water	06/14/2022

2060389

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
RF-402	6/14/22 0910	W					X												X							1	
RF-401	6/14/22 1030	W					X												X							1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Joseph Franklin	6/14/22 1130	
	6/14/22 1500	6/14/22 1500

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Pl.
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motyka Dowle E-mail: dmotyckadowle@haleyaldrich.com
Phone #: 860-572-3939 Fax #:

Project Information

Project: PO #:
Location: Project #: 027892-433
CET Quote # Collector(s): J Franklin
QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 6 °C Evidence of Cooling: Y N
PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

Jacqueline M. Bakos

From: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Sent: Tuesday, June 14, 2022 3:40 PM
To: Jacqueline M. Bakos
Subject: RE: test??

Jacqui
Sorry – new field people.
Total metals (mercury, zinc, lead, copper, arsenic) – same for both wells.

Do you need me to annotate the COC?

He also turned in samples from another project – did he include metals we want on that one?

Thanks!

Deborah L. Motycka Downie, LEP
Senior Technical Specialist
Haley & Aldrich, Inc.
100 Corporate Place, Suite 105
Rocky Hill, CT 06067
Cell: 857.488.7477
Phone:860.572.3939
dmotyckadownie@haleyaldrich.com
www.haleyaldrich.com

From: Jacqueline M. Bakos <jbakos4@cetlabs.com>
Sent: Tuesday, June 14, 2022 3:28 PM
To: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Subject: test??

CAUTION: External Email

Debbie,
What list of metals??

Jacqui Bakos
Sample Manager
Complete Environmental Testing, Inc.
Phone: (203) 377-9984
Fax: (203) 377-9952
www.cetlabs.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2090690

Report Date:September 30, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 27892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 5.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-401	2090690-01	Water	9/23/2022 11:40	09/23/2022
RF-402	2090690-02	Water	9/23/2022 13:00	09/23/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2090690-01	RF-401	ND	0.00020	mg/L	1	B2I2817	09/28/2022	09/28/2022 13:32	
2090690-02	RF-402	ND	0.00020	mg/L	1	B2I2817	09/28/2022	09/28/2022 13:40	

Client Sample ID RF-401

Lab ID: 2090690-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 15:57	
Arsenic	ND	0.0040	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 15:57	
Copper	ND	0.040	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 15:57	
Zinc	**0.071**	0.020	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 15:57	

Client Sample ID RF-402

Lab ID: 2090690-02

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 16:09	
Arsenic	ND	0.0040	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 16:09	
Copper	ND	0.040	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 16:09	
Zinc	ND	0.020	1	EPA 200.7	B2I2841	09/28/2022	09/29/2022 16:09	

QUALITY CONTROL SECTION

Batch B2I2817 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2817-BLK1)					Prepared: 9/28/22 Analyzed: 9/28/22				
Mercury	ND	0.00020							
LCS (B2I2817-BS1)					Prepared: 9/28/22 Analyzed: 9/28/22				
Mercury	0.00516	0.00020	0.005		103	85 - 115			
Duplicate (B2I2817-DUP1)		**Source: 2090690-01**			Prepared: 9/28/22 Analyzed: 9/28/22				
Mercury	ND	0.00020		ND				20	
Matrix Spike (B2I2817-MS1)		**Source: 2090690-01**			Prepared: 9/28/22 Analyzed: 9/28/22				
Mercury	0.00502	0.00020	0.005	ND	100	70 - 130			
Matrix Spike Dup (B2I2817-MSD1)		**Source: 2090690-01**			Prepared: 9/28/22 Analyzed: 9/28/22				
Mercury	0.00504	0.00020	0.005	ND	101	70 - 130	0.398	20	

Batch B2I2841 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2I2841-BLK1)					Prepared: 9/28/22 Analyzed: 9/29/22				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2I2841-BS1)					Prepared: 9/28/22 Analyzed: 9/29/22				
Lead	0.199	0.013	0.200		99.3	85 - 115			
Arsenic	0.197	0.0040	0.200		98.6	85 - 115			
Copper	0.196	0.040	0.200		98.2	85 - 115			
Zinc	0.198	0.020	0.200		99.0	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 27892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2090690-01 thru 2090690-02 09/23/2022

List RCP Methods Used: ***CET #:*** 2090690

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 09/30/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2I2841	S2I2901	2090690-01	RF-401	EPA 200.7	Water	09/23/2022
B2I2841	S2I2901	2090690-02	RF-402	EPA 200.7	Water	09/23/2022
B2I2817		2090690-01	RF-401	EPA 245.2	Water	09/23/2022
B2I2817		2090690-02	RF-402	EPA 245.2	Water	09/23/2022

2090690

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis: Metals*	TOTAL # OF CONT.	NOTE #
RF-401	9/23/22 1140	W					X																		X	1	
RF-402	9/23/22 1300	W					X																		X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	9/23/22 1405	[signature] 9/23/22 14:05
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:
* Total arsenic, Copper, Lead, mercury and Zinc

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motycka E-mail: dmotycka@haleyaldrich.com
Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:
Location: Hamden, CT Project #: 027892-433
CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ PDF ☐ EDD - Specify Format Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA

Temp Upon Receipt 3.1 °C Evidence of Cooling: (Y) N

PAGE OF

*** Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.**

REV. 12/18

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2120503

Report Date:December 21, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 27892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 1.7°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-402	2120503-01	Water	12/15/2022 13:20	12/15/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2120503-01	RF-402	ND	0.00020	mg/L	1	B2L1914	12/19/2022	12/19/2022 14:36	

Client Sample ID RF-402

Lab ID: 2120503-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2L1939	12/19/2022	12/20/2022 11:42	
Arsenic	ND	0.0040	1	EPA 200.7	B2L1939	12/19/2022	12/20/2022 11:42	
Copper	ND	0.040	1	EPA 200.7	B2L1939	12/19/2022	12/20/2022 11:42	
Zinc	ND	0.020	1	EPA 200.7	B2L1939	12/19/2022	12/20/2022 11:42	

QUALITY CONTROL SECTION

Batch B2L1914 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2L1914-BLK1)					Prepared: 12/19/2022 Analyzed: 12/19/2022				
Mercury	ND	0.00020							
LCS (B2L1914-BS1)					Prepared: 12/19/2022 Analyzed: 12/19/2022				
Mercury	0.00514	0.00020	0.005		103	85 - 115			

Batch B2L1939 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2L1939-BLK1)					Prepared: 12/19/2022 Analyzed: 12/20/2022				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2L1939-BS1)					Prepared: 12/19/2022 Analyzed: 12/20/2022				
Lead	0.199	0.013	0.200		99.4	85 - 115			
Arsenic	0.205	0.0040	0.200		103	85 - 115			
Copper	0.210	0.040	0.200		105	85 - 115			
Zinc	0.215	0.020	0.200		108	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 27892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2120503-01 12/15/2022

List RCP Methods Used: ***CET #:*** 2120503

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 12/21/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2L1939	S2L2002	2120503-01	RF-402	EPA 200.7	Water	12/15/2022
B2L1914		2120503-01	RF-402	EPA 245.2	Water	12/15/2022

2120503

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: Total ★

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis: Total ★	TOTAL # OF CONT.	NOTE #
RF-402	12/15/22 1320	W					X																		X	1	
PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)																									N		
CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)																									P		
Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)																											

RELINQUISHED BY: Greg Hadden DATE/TIME: 12/15/22 1330 RECEIVED BY:
RELINQUISHED BY: DATE/TIME: 12/15/22 15:05 RECEIVED BY: 12/15/22 15:05
RELINQUISHED BY: DATE/TIME: RECEIVED BY:

NOTES: ★ As, Cu, Hg, Pb, Zn

Client / Reporting Information

Company Name: Hatley & Aldrich
Address: 100 Corporate Place
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motycka E-mail: dmotycka@hatleyaldrich.com
Phone #: 860-572-3934 Fax #:

Project Information

Project: PO #:
Location: Hamden, CT Project #: 0027892-433
CET Quote # Collector(s):
QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 1.7 °C Evidence of Cooling: Y N
PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

HALEY & ALDRICH, INC.
100 Corporate Place
Suite 105
Rocky Hill, CT 06067
860.282.9400

28 June 2022
File No. 27892-430

Connecticut Department of Energy and Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford CT 06106-5127

Attention: Ray Frigon

Subject: Annual Status Report
Rochford Field and Villano Park (formerly Mill Rock Park)
Hamden, Connecticut
REM ID# 9148 and 9149

Ladies and Gentlemen:

On behalf of our client, Town of Hamden, Haley & Aldrich is pleased to submit this status report on groundwater monitoring activities at Rochford Field, Villano Park (formerly known as Mill Rock Park) and the Sewer Pump Station in Hamden, Connecticut during the period from April 2021 to June 2022. The site location is shown in Figure 1. Groundwater monitoring at the site has been conducted in accordance with our 2013 Remedial Action Plans (RAPs) which were approved by Connecticut Department of Energy and Environmental Protection (CTDEEP) in November 2013.

SITE DESCRIPTION AND BACKGROUND

The 4.84-acre Rochford Field is bounded by Newhall and Newbury Streets to the west and south, respectively, Winchester Avenue to the east and Mill Rock Road to the north. A chain link fence surrounds the recreational facility, which includes a baseball field, a softball field, dugouts, backstops, and bleachers. The 2.94-acre Villano Park is located along Mill Rock Road and Wadsworth Street with a tree-lined chain link fence separating the property from residential properties on Bryden Terrace. The 0.12-acre Sewer Pump Station, presently owned by the Greater New Haven Water Pollution Control Authority (GNHWPCA) is located at the southeast corner of Mill Rock Road and Winchester Avenue, abutting the northwestern corner of Villano Park. The pump station building is a windowless, one-story structure surrounded by grassy lawn and a chain link fence.

The Town of Hamden acquired the Rochford and Villano parcels in the 1930s. The parcels, which were historically wetlands, were used as public refuse dumps and/or as an industrial landfill/depository for "coke fill" (charcoal residue and ash) in the 1920s or and 1930s. In late 1936 and 1937, the Rochford field parcel was graded and topped with approximately 6-inches of loam and used as a recreation field. The Town of Hamden developed Villano (then Mill Rock Park) as a park in 1940 and subsequently

renovated the park in 1992 with the installation of approximately 1,300 cubic yards of gravel fill and expansion of, or upgrades to existing recreational facilities. The sewer pump station was constructed in 1952 on filled land that was acquired by the Town in 1939.

On 10 July 2001, CTDEEP issued Order No. SRD-128 to the Town of Hamden, South Central Regional Water Authority (RWA), Olin Corporation (Olin), and the State Board of Education. The Order required the respondents to investigate and remediate sources of pollution on a "site" which was subsequently divided into three portions that included both publicly and privately-owned properties. The Order required the Town to investigate, characterize, and remediate Rochford Field, Mill Rock (Villano) Park and the Sewer Pump Station.

Interim remedial actions and site investigations were undertaken between 2000 and 2013. Testing encountered impacted fill material containing polyaromatic hydrocarbons (PAHs), extractable total petroleum hydrocarbons (ETPH), and metals at concentrations above the CTDEEP Remediation Standard Regulations (RSRs). Groundwater analyses detected similar compounds to those found in site soil. In June 2013, Haley & Aldrich prepared Remedial Action Plans (RAPs) for the three parcels which were approved by CTDEEP in November 2013. The RAPS outlined remedial construction (caps), the construction of which was completed by November 2015, and natural attenuation groundwater monitoring (MNA).

APPLICABLE CTDEEP RSR GROUNDWATER CRITERIA

Groundwater underlying the Site was historically classified as "GAA" by CTDEEP; a "GAA" classification indicates that the water resource is regulated for potential use as a public drinking water supply. In 2005, CTDEEP reclassified a portion of the site (including parts of Rochford Field and Villano Park) "GB"; a "GB" classification indicates that the water resource is not intended to be suitable for use as a drinking water supply without prior treatment. Both the "GAA" and "GB" groundwater classification areas and associated groundwater elevation contours are shown on Figure 2. A public water supply system is used to supply potable water to area residences and businesses. Groundwater flow beneath the site is primarily to the west and southwest from Villano Park towards Rochford Field flowing from the GAA into the GB area. Based on groundwater elevation contour maps, there is also a northwesterly component of flow in the far northwestern portion of Rochford Field within the area classified as a "GAA" resource (see Figure 2).

Applicable RSR criteria for groundwater quality are:

- Groundwater Protection Criteria (GWPC) ("GAA" area of the site)
- Surface Water Protection Criteria (SWPC) and,
- Residential Volatilization Criteria (RVC).

GROUNDWATER MONITORING PROGRAM

In accordance with the CTDEEP-approved RAPs, Haley & Aldrich has conducted MNA or compliance groundwater monitoring on a quarterly or annual basis since completion of remedial actions in 2015.

Originally, the groundwater monitoring network includes seven monitoring wells at Rochford Field (RF-HA108-MW, RF-HA108-MWD, RF-HA110-MW, RF-HA115-MW, RF-HA123-MW, RF-HA207-MW, and RF-HA301-MW) and five monitoring wells at Villano Park (MRP-HA101-MW, MRP-HA103-MW, MRP-HA201-MW, MRP-HA202-MW and MRP-HA-204). Well locations are shown on Figure 2.

In April 2020, Haley & Aldrich submitted a request to CTDEEP to change the monitoring program, eliminating certain upgradient wells (including the wells in Villano Park and RF-HA108-MWD, RF-HA110-MW and RF-HA207-MW) or eliminating certain monitoring parameters for which diminishing trends and/or RSR compliance had been demonstrated.

In June 2021, Haley & Aldrich used low flow purging and sampling methodology to sample four wells in Rochford Field (RF-HA115-MW, RF-HA123-MW, RF-HA108-MW and RF-HA301-MW) for ETPH and/or total selected metals via USEPA Method 200.7 and 7470A or 245.2 and Connecticut Department of Public Health ETPH Method. The monitoring results are tabulated and compared against the GWPC (applicable to the "GAA" area), SWPC and RVC; data is summarized in Tables Ia and Ib. As shown, and discussed below, RSR GWPC compliance has been demonstrated in the "GAA" area of the site. As of June 2021, one or more metals were detected in certain downgradient property line wells at concentrations above SWPC.

Groundwater flow beneath Rochford Field (which is downgradient of Villano Park) is both northwesterly (in the GAA area) and southwesterly (in the GB area). The northwesterly flow component discharges into an unnamed surface water body (stream) on the northwest side of Mill Rock Road which flows northerly towards Lake Whitney. The southwesterly flow component discharges into Beaver Pond and ultimately the West River to the southwest. Since SWPC is based on demonstrating RSR compliance at a point of compliance closest to the surface water discharge, Haley & Aldrich sampled locations on Town property (i.e., the former Middle School property) which is located between Rochford Field/Villano Park and the downgradient surface water discharge locations. The additional locations, which are shown on Figure 2, include:

- The former MW-1, installed by WSP, Inc. (and renamed as RF-401-MW by Haley & Aldrich) and located on town property downgradient of the northern portion of Rochford Field ("GAA area") and Villano Park; and,
- A new well (RF-402-MW), located on Town of Hamden property near the corner of Newbury and Newhall Streets hydrologically downgradient of the southern portion of Rochford Field (and Villano Park).

On 14 February 2022, Haley used low flow purging and sampling methodology to sample RF-401-MW for selected total metals (arsenic, copper, lead, mercury, and zinc) via USEPA Method 200.7 or 245.2. On 5 April 2022 and 14 June 2022, Haley & Aldrich used low flow purging and sampling methodology to sample RF-401-MW and RF-401-MW for selected total metals (arsenic, copper, lead, mercury, and zinc) via USEPA Method 200.7 or 245.2. The monitoring results were tabulated and compared against the GWPC and SWPC, as applicable, and summarized in Tables Ia and 1b.

Summary of Groundwater Monitoring and Results

Results from the 2021 and 2022 sampling events are summarized on Tables Ia and Ib along with results from previous monitoring events. The laboratory data reports for 2021 and 2022 are attached to this letter.

The following is a summary of analytical results:

Rochford Park (2021)

RF-HA108-MW ("GAA" area)– The well was sampled for analysis for total zinc only. Zinc was detected at 0.086 mg/L, below both the RSR SWPC and GWPC.

RF-HA115-MW: The well was sampled for analysis for total zinc and ETPH. ETPH was previously detected in one sampling event (March 2018) and was not detected prior to that time or in three subsequent (2019, 2020, 2021) sampling events supporting the conclusion that the one-time detection was an anomaly. Total zinc was detected at 0.58 mg/L, which is above the RSR SWPC of 0.123 mg/L.

RF-HA123-MW: The well was sampled for analysis for ETPH and total selected metals (8 RCRA metals plus copper and zinc). ETPH was previously detected in one sampling event (May 2019) and was not detected prior to that time. ETPH was not detected in the May 2020 or the June 2021 sampling event supporting the conclusion that the one-time detection was an anomaly. Zinc was detected at 0.81 mg/L, above the RSR SWPC of 0.123 mg/L. The level of total lead detected in the sample (0.021 mg/L) also exceeds the SWPC of 0.013 mg/L. Barium was detected at 0.33 mg/L, well below the RSR SWPC of 2.2 mg/L. Arsenic, copper, mercury, and selenium were not detected above the laboratory detection limit.

RF-HA301-MW – The well was sampled for analysis for total zinc only. Zinc was detected at 0.1 mg/L, slightly below the RSR SWPC of 0.123 mg/L.

Downgradient wells (RF-401-MW and RF-401-MW, 2022)

RF-401-MW- The well was sampled for total arsenic, copper, lead, mercury, and zinc. Except for total zinc, detected at 0.037 mg/L in February 2022 and 0.092 mg/L in April 2022, no metals were detected above the laboratory detection limits. The concentrations of zinc detected do not exceed CTDEEP RSR GWPC or SWPC.

RF-402-MW – The well was sampled for total arsenic, copper, lead, mercury, and zinc; no metals were detected above the laboratory detection limits.

RECOMMENDATIONS

In our opinion, analytical data collected during the long-term groundwater monitoring program continues to demonstrate an overall diminishing trend. Recent testing did not detect ETPH, which suggests that the one-time detections in RF-HA115-MW and RF-HA123-MW were anomalous. Previous

groundwater testing (2015 to 2019) at Villano Park demonstrated RSR compliance for GWPC. Except for the concentration of lead in RF-HA110-MW, the wells in the "GAA" area have previously demonstrated RSR GWPC compliance. Groundwater from the vicinity of RF-HA-110-MW flows southerly into the "GB" groundwater area.

We therefore recommend the elimination of ETPH in future monitoring events. We also recommend the elimination of other parameters that have demonstrated compliance for RSR GWPC and/or SWPC.

Rochford Field is downgradient of Villano Park, the Rochford field wells, and more recently the wells on town property between Rochford field and the surface water discharge locations, have been used as a point of compliance for SWPC for both parcels. To date, compliance monitoring (February and/or April and June 2022) have demonstrated RSR compliance in both RF-401-MW and RF-402-MW. We plan to conduct one additional quarter of compliance monitoring (fall 2022) at RF-401- MW and two additional quarters (fall and winter 2022) at RF-402-MW. If results of the monitoring continue to demonstrate SWPC compliance, we will contact CTDEEP to discuss terminating the groundwater monitoring program.

We therefore recommend that ongoing monitoring include quarterly compliance groundwater monitoring to demonstrate SWPC compliance.

Sincerely yours,
HALEY & ALDRICH, INC.

Deborah Motycka Downie, LEP
Senior Technical Specialist

Chris G. Harriman, LEP
Senior Associate

Attachments:
Table Ia and Ib – Summary of Groundwater Analytical Data for Rochford Field (2015 to present)
Figure 1 – Site Locus
Figure 2 – Well Locations and Groundwater Classification
Laboratory Analytical Data for 2021 and 2022

c: Town of Hamden, Erik Johnson

TABLE Ia
SUMMARY OF "GAA" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		GA/GAA Groundwater Protection Criteria	Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA108-MW									RF-HA108-MWD								
					Comments:																		
					Sample Date:	31-Dec-15	30-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21	19-Nov-04	27-Oct-14	31-Dec-15	30-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	28-Mar-18	17-May-19
Volatile Organic Compounds (ug/l):					***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***524.2***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
Benzene		1	710	130		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform		6	14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chloromethane		18	10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	0.98	ND	ND	ND	ND	ND	ND	ND	ND
Toluene		1000	4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Polyaromatic Hydrocarbons (PAHs) ug/L					***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***525.2***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		28	62	1000		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthene		420	150	30500		2.1	5.2	4.7	7.3	5	4.7	2.9	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Acenaphthylene		420	0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Anthracene		2,000	1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene		0.06	0.3	NE		ND	ND	ND	ND	**0.11**	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene		0.08	0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbazole		5	53	NE		--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
Dibenzofuran		7	40	460		--	--	--	--	--	--	--	--	--	ND	--	--	--	--	--	--	--	--
Fluoranthene		280	3,700	NE		1.1	1.3	1.8	2.8	1.8	2	1.1	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Fluorene		280	140,000	NE		2.3	5.9	5.3	9.1	6.4	6.1	2.5	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenanthrene		200	14	NE		ND	0.77	0.93	1.2	0.72	ND	0.08	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Pyrene		200	110,000	NE		ND	ND	1.1	1.7	1.1	1.2	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
					Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CTETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	0.25	NE		ND	0.12	ND	0.22	ND	0.21	ND	--	--	ND	ND	ND	0.2	ND	0.25	0.15	ND	ND
Total Metals (mg/l):	***Method***					***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***			***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.05	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	**0.0047**	ND	ND	ND	ND	ND	ND	ND	ND
Barium	***200.8***	10	2.2	NE		--	--	--	--	--	--	--	--	--	**--**	0.056	--	--	--	--	--	--	--
Copper	***200.8***	1.3	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Lead	***200.8***	0.015	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.002	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel	***200.8***	0.1	0.88	NE		0.05	ND	0.092	ND	ND	0.058	0.081	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Potassium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	6.0	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	0.05	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	0.011
Silver	***200.8***	0.036	0.012	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.005	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc	***200.8***	5	0.123	NE		**0.21**	**0.13**	**0.21**	0.036	**0.35**	**0.34**	**0.38**	**0.21**	0.086	0.017	ND	ND	ND	0.023	ND	ND	ND	ND
Other Analyses (mg/l)																							
Alkalinity ($CaCO_3$)	***310.1***	--	--	--		--	--	--	--	--	--	--		--	230	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--	--		--	--	--	--	--	--	--		--	4.6	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--	--		--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--	--		--	--	--	--	--	--	--		--	8.6	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--	--		--	--	--	--	--	--	--		--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--		--	11	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--		--	1.5	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--	--		--	--	--	--	--	--	--		--	ND	--	--	--	--	--	--	--	--
pH	***150.1***	--	--	--		--	--	--	--	--	--	--		--	6.45	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--	--		--	--	--	--	--	--	--		--	1.8	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***		--	--		--	--	--	--	--	--	--		--	230	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--	--		--	--	--	--	--	--	--		--	28	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ia
SUMMARY OF "GAA" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		GA/GAA Groundwater Protection Criteria	Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA110-MW								RF-401-MW		
					Comments:											
					Sample Date:	27-Oct-14	31-Dec-15	31-Mar-16	29-Jun-16	19-Oct-16	29-Mar-17	28-Mar-18	17-May-19	14-Feb-22	8-Apr-22	14-Jun-22
Volatile Organic Compounds (ug/l):					***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***524.2***	***524.2***	***524.2***
Benzene		1	710	130		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Chloroform		6	14,100	26		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Chloromethane		18	10,000	130		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Toluene		1000	4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Polyaromatic Hydrocarbons (PAHs) ug/L					***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***525.2***	***525.2***	***525.2***
2-Methyl Naphthalene		28	62	1000		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Acenaphthene		420	150	30500		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Acenaphthylene		420	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Anthracene		2,000	1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Benzo[a]anthracene		0.06	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Benzo[b]fluoranthene		0.08	0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Carbazole		5	53	NE		--	--	--	--	--	--	--	--	--	--	--
Dibenzofuran		7	40	460		--	--	--	--	--	--	--	--	--	--	--
Fluoranthene		280	3,700	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Fluorene		280	140,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Naphthalene		280	210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Phenanthrene		200	14	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Pyrene		200	110,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
					Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	0.25	NE		**0.27**	**0.71**	**0.32**	ND	**0.51**	**0.29**	**0.21**	**0.34**	--		
Total Metals (mg/l):	***Method***						***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***			
Arsenic	***200.8***	0.05	0.004	NE		**0.0086**	**0.033**	**0.013**	**0.02**	**0.031**	**0.0062**	**0.011**	**0.018**	ND	ND	ND
Barium	***200.8***	10	2.2	NE		0.15	--	--	--	--	--	--	--	--	--	--
Copper	***200.8***	1.3	0.048	NE		**0.23**	**0.19**	**0.16**	**0.11**	**0.073**	**0.18**	**0.28**	**0.08**	ND	ND	ND
Lead	***200.8***	0.015	0.013	NE		**0.27**	**0.16**	**0.10**	**0.10**	**0.061**	**0.19**	**0.19**	**0.26**	ND	ND	ND
Mercury	***7470A / 245.2***	0.002	0.0004	NE		**0.00078**	**0.0015**	**0.001**	**0.00083**	**0.00058**	**0.0021**	**0.0024**	**0.0011**	ND	ND	ND
Nickel	***200.8***	0.1	0.88	NE		**0.67**	**0.55**	**0.51**	**0.69**	**0.78**	**0.41**	**0.35**	**0.11**	--	--	--
Potassium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	0.05	NE		ND	ND	ND	ND	ND	ND	ND	0.022	--	--	--
Silver	***200.8***	0.036	0.012	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Sodium	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.005	0.063	NE		ND	ND	ND	ND	ND	ND	ND	ND	--	--	--
Zinc	***200.8***	5	0.123	NE		**11**	**4.7**	**6.2**	**5.2**	**6.3**	**3.5**	**0.94**	**0.66**	0.037	0.092	ND
Other Analyses (mg/l)																
Alkalinity ($CaCO_3$)	***310.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
pH	***150.1***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--	--		--	--	--	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***		--	--		--	--	--	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--	--		--	--	--	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA115-MW								
				Comments:									
				Sample Date:	31-Dec-15	31-Mar-16	29-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	ND	--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	ND	--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	ND	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	ND	--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***	***8270C***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	ND	--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	ND	--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Phenanthrene		14	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	ND	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***		
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***		***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CTETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	**0.29**	ND	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Lead	***200.8***	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	0.018	ND	ND	ND	--	--
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Zinc	***200.8***	0.123	NE		**0.2**	**0.34**	**0.2**	**0.15**	**0.27**	**1.1**	**0.37**	0.093	**0.58**
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--	--	--
Other Analyses (mg/l)													
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID:	RF-HA123-MW								
				Comments:									
				Sample Date:	31-Dec-15	31-Mar-16	28-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***		
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	--	--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	--	--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***		***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	--	--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	--	--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Phenanthrene		14	NE		ND	**0.31**	ND	ND	ND	ND	ND	--	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--		--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	ND	0.16	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	**0.0065**	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	0.29	0.33
Copper	***200.8***	0.048	NE		**0.091**	**0.06**	**0.064**	**0.077**	**0.077**	**0.16**	**0.089**	ND	ND
Lead	***200.8***	0.013	NE		**0.042**	**0.021**	**0.017**	**0.016**	**0.023**	**0.09**	**0.037**	ND	**0.021**
Mercury	***7470A / 245.2***	0.0004	NE		**0.00067**	0.00028	ND	**0.00068**	**0.0022**	**0.0039**	**0.0021**	ND	ND
Nickel	***200.8***	0.88	NE		0.15	0.15	0.17	0.17	0.11	0.11	0.22	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--
Zinc	***200.8***	0.123	NE		**1.2**	**1.3**	**1.3**	**1.3**	**0.94**	**1.1**	**1.5**	**0.62**	**0.81**
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--		--
Other Analyses (mg/l)													
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--		--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--		--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--		--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--		--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--		--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--		--
pH	***150.1***	--	--		--	--	--	--	--	--	--		--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--		--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--		--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--		--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID: / Comments: / Sample Date:	RF-HA207-MW 31-Dec-15	31-Mar-16	29-Jun-16	18-Oct-16	30-Mar-17	27-Mar-18	16-May-19
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND
Acenaphthene		150	30500		ND	ND	ND	1.2	ND	ND	ND
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND
Benzo[a]anthracene		0.3	NE		0.15	ND	ND	ND	ND	ND	ND
Benzo[b]fluoranthene		0.3	NE		0.14	ND	ND	ND	ND	ND	ND
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND
Fluorene		140,000	NE		ND	ND	ND	2.3	ND	ND	ND
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND
Phenanthrene		14	NE		0.17	ND	0.35	3.0	0.47	ND	ND
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	0.14	ND	ND	ND
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***
Arsenic	***200.8***	0.004	NE		ND	**0.0073**	**0.0081**	**0.0097**	ND	ND	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND
Lead	***200.8***	0.013	NE		**0.013**	ND	ND	ND	ND	ND	ND
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND
Zinc	***200.8***	0.123	NE		0.085	0.095	0.07	0.025	**0.15**	0.11	ND
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--
Other Analyses (mg/l)											
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--

NOTES:
1. Sampling methodologies changed to GAA standards as of July 2004 sampling round.
2. This table includes only those compounds detected.
3. RSR criteria means Remedial Standard Regulation criteria established by the Connecticut Department of Environmental Protection (CTDEEP).
4. NE means numeric RSR criteria not established by CTDEEP.
5. ND means that the compound was not detected above laboratory detection limit.
6. Concentrations in bold type exceed criteria established by CTDEEP.
7. ug/L means micrograms per liter; mg/L means milligrams per liter.
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.

TABLE Ib
SUMMARY OF "GB" GROUNDWATER AREA ANALYTICAL DATA
ROCHFORD FIELD
HAMDEN, CONNECTICUT

PARAMETER		Surface Water Protection Criteria	Residential Volatilization Criteria	Sample ID: / Comments: / Sample Date:	RF-HA301-MW 31-Dec-15	31-Mar-16	28-Jun-16	19-Oct-16	29-Mar-17	27-Mar-18	17-May-19	8-May-20	24-Jun-21	RF-402-MW 8-Apr-22	14-Jun-22
Volatile Organic Compounds (ug/l):				***Method:***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***	***8260C***
4-Isopropyltoluene		200	870		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzene		710	130		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Chloroform		14,100	26		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Chloromethane		10,000	130		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Toluene		4,000,000	23,500		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Semi-Volatile Organic Compounds (ug/l):				***Method:***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***	***8270D***
2-Methyl Naphthalene		62	1000		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Acenaphthene		150	30500		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Acenaphthylene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Anthracene		1,100,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzo[a]anthracene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzo[b]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Benzo[k]fluoranthene		0.3	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Fluoranthene		3,700	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Fluorene		140,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Indeno[1,2,3-cd]pyrene		0.54	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Naphthalene		210	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Phenanthrene		14	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Pyrene		110,000	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
				Method:	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***	***505***
Chlorinated Pesticides (ug/l):		**---**	**---**		--	--	--	--	--	--	--	--	--	--	--
				Method:	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***	***8082***
Polychlorinated Biphenyls (ug/l):		0.5	NE		--	--	--	--	--	--	--	--	--	--	--
				Method:	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***	***CT ETPH***
Total Petroleum Hydrocarbons (mg/l):		0.25	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Total Metals (mg/l):	***Method***				***200.7/7470A***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***	***200.7/245.2***		
Arsenic	***200.8***	0.004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND
Barium	***200.8***	2.2	NE		--	--	--	--	--	--	--	--	--	--	--
Copper	***200.8***	0.048	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND
Lead	***200.8***	0.013	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND
Mercury	***7470A / 245.2***	0.0004	NE		ND	ND	ND	ND	ND	ND	ND	--	--	ND	ND
Nickel	***200.8***	0.88	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Potassium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Selenium	***200.8***	0.05	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Sodium	***200.8***	NE	NE		--	--	--	--	--	--	--	--	--	--	--
Thallium	***200.8***	0.063	NE		ND	ND	ND	ND	ND	ND	ND	--	--	--	--
Zinc	***200.8***	0.123	NE		ND	ND	ND	ND	ND	ND	**0.26**	**0.2**	0.1	ND	ND
Total Cyanide (mg/l):	***335.4***	NE	NE		--	--	--	--	--	--	--		--		
Other Analyses (mg/l)															
Alkalinity ($CaCO_3$)	***310.1***	--	--		--	--	--	--	--	--	--		--	--	--
Ammonia as Nitrogen	***350.3***	--	--		--	--	--	--	--	--	--		--	--	--
B. O. D./ 5 Day	***405.1***	--	--		--	--	--	--	--	--	--		--	--	--
Chloride	***300.0***	--	--		--	--	--	--	--	--	--		--	--	--
Fluoride	***300.0***	--	--		--	--	--	--	--	--	--		--	--	--
Iron (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--	--	--
Manganese (dissolved)	***200.8***	NE	NE		--	--	--	--	--	--	--		--	--	--
Nitrate as Nitrogen	***300.0***	--	--		--	--	--	--	--	--	--		--	--	--
pH	***150.1***	--	--		--	--	--	--	--	--	--		--	--	--
Sulfate	***300.0***	--	--		--	--	--	--	--	--	--		--	--	--
Total Dissolved Solids	***160.1***	--	--		--	--	--	--	--	--	--		--	--	--
Total Suspended Solids	***160.2***	--	--		--	--	--	--	--	--	--		--	--	--

NOTES:
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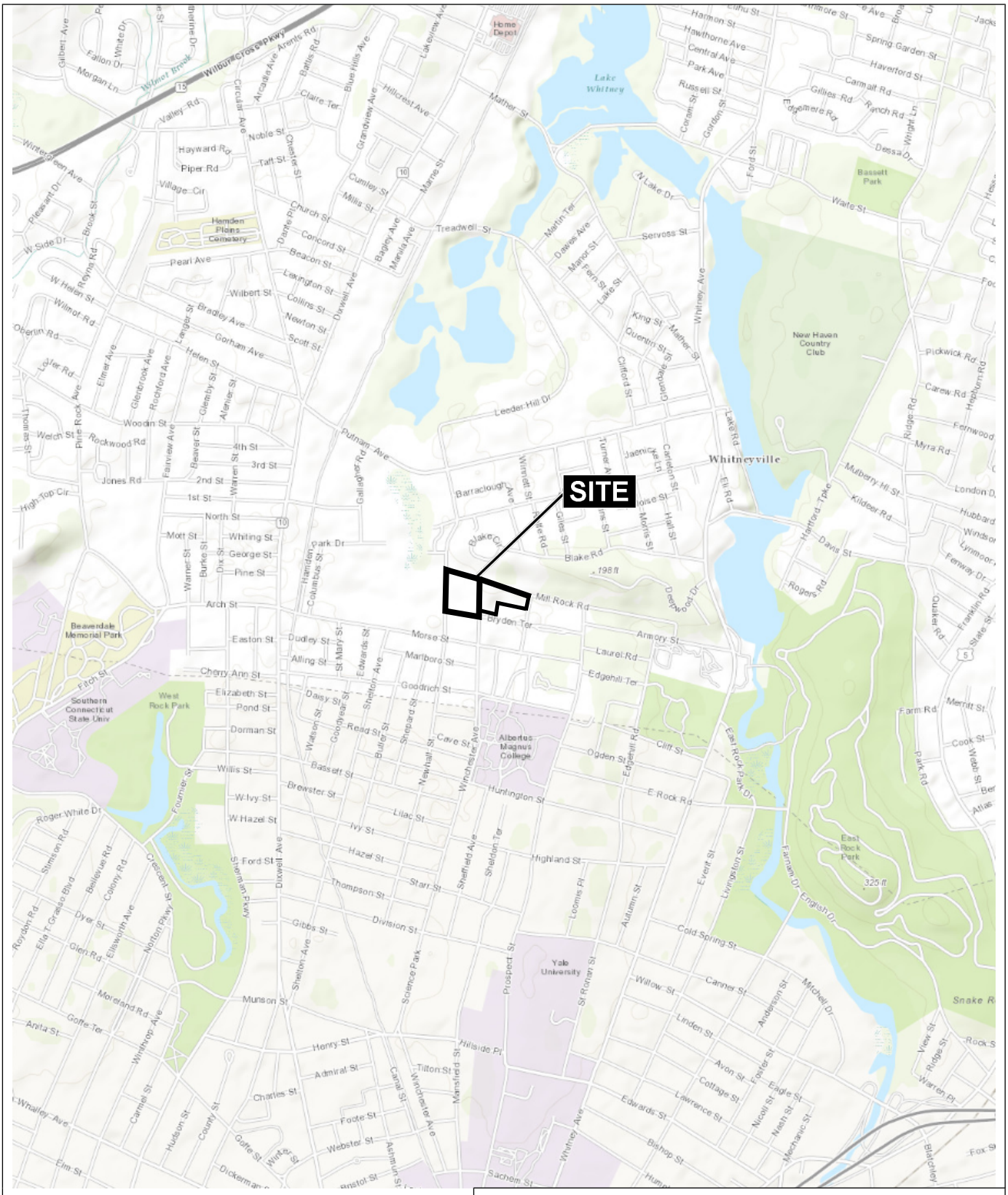
8. B: Compound also detected in one or more associated laboratory blanks.

Chloromethane reported by laboratory as a likely analytical laboratory artifact.



MAP SOURCE: ESRI

SITE COORDINATES: 41°20'19"N, 72°55'24"W

HALEY ALDRICH

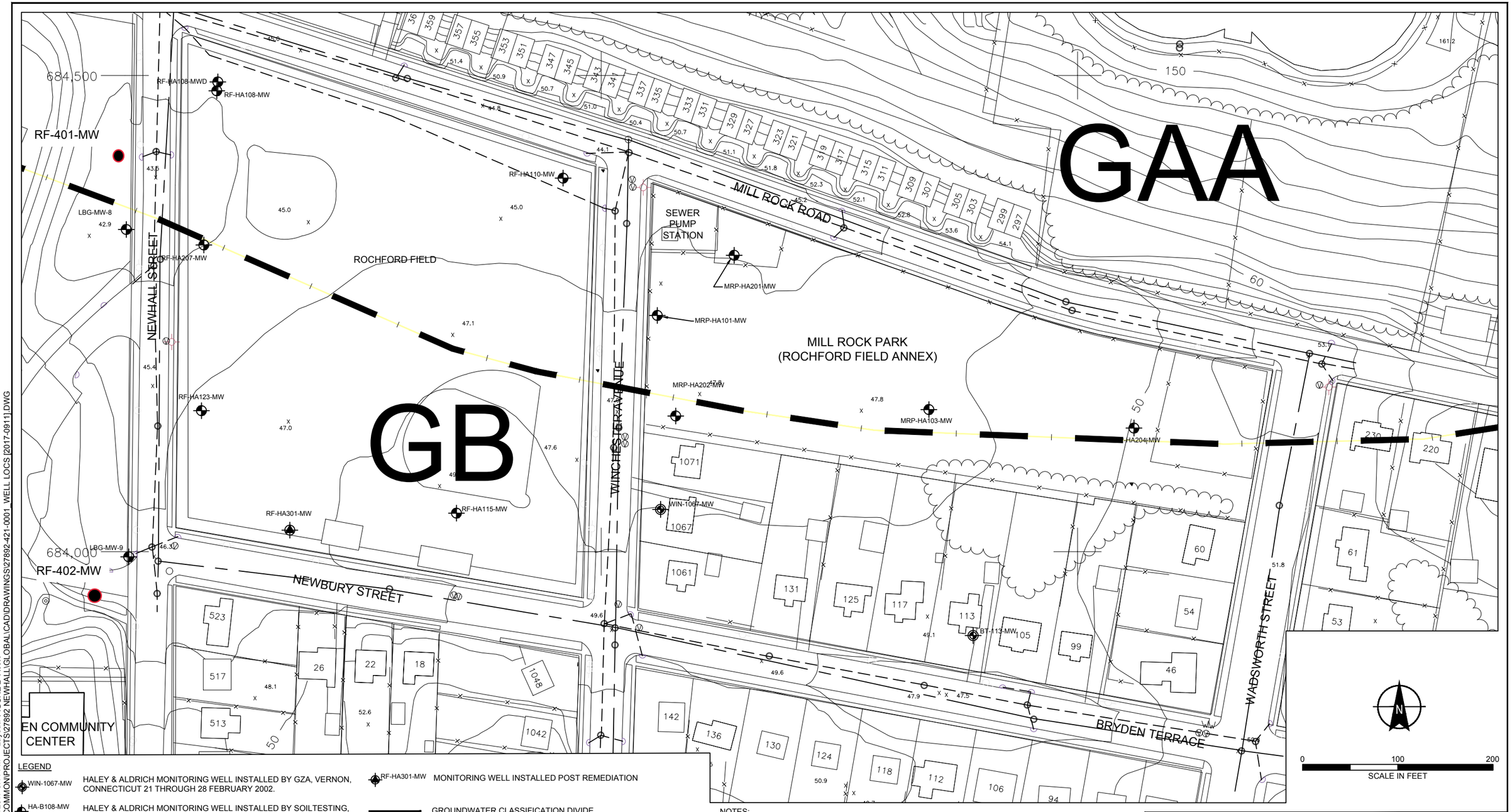
ANNUAL STATUS REPORT
ROCHFORD FIELD AND VILLANO PARK
HAMDEN, CONNECTICUT

SITE LOCUS

APPROXIMATE SCALE: 1 IN = 2000 FT
MARCH 2017

FIGURE 1

27892-428_1_LOCUS.PDF



LEGEND

WIN-1067-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY GZA, VERNON, CONNECTICUT 21 THROUGH 28 FEBRUARY 2002.
HA-B108-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., IN JULY 2002.
RF-HA114	HALEY & ALDRICH MONITORING WELL INSTALLED BY SOILTESTING, INC., OXFORD, CONNECTICUT ON 9 THROUGH 23 AUGUST 2002.
MRP-HA201-MW	HALEY & ALDRICH MONITORING WELL INSTALLED BY NEW ENGLAND BORING CONTRACTORS, INC., GLASTONBURY, CONNECTICUT 18 OCTOBER THROUGH 12 NOVEMBER 2004.
LBG-MW-9	LEGGETTE, BRASHEARS & GRAHAM (LBG) MONITORING WELL
	APPROXIMATE LOCATION OF SANITARY SEWER LINE (SEE NOTE 3)
	APPROXIMATE LOCATION OF STORM SEWER LINE (SEE NOTE 3)
RF-HA301-MW	MONITORING WELL INSTALLED POST REMEDIATION
	GROUNDWATER CLASSIFICATION DIVIDE
GB	GROUNDWATER CLASSIFICATION AREA
RF-MW-401	LBG MONITORING WELL RENAMED RF-401-MW
RF-MW-402	HALEY & ALDRICH MONITORING WELL INSTALLED BY SEABOARD DRILLING OF CHICOPEE, MASSACHUSETTS IN MARCH 2022.

NOTES:

1. BASE PLAN FROM CAD FILES H2126, H2127, HC2126c AND H2127c DATED 24 AUGUST 2001-TOWN OF HAMDEN ASSESSORS MAP REVISED APRIL 2000.
2. GROUNDWATER ELEVATIONS FOR LBG-MW-3, LBG-MW-8 AND LBG-MW-9 WERE OBTAINED BY LEGGETTE, BRASHEARS & GRAHAM ON 19 NOVEMBER 2004 & 7 FEBRUARY 2005. GROUNDWATER ELEVATIONS FOR MONITORING WELLS HA-B108-MW, HA-B109-MW, BT-113-MW, MS-109-MW, NH-499-MW AND WIN-1067-MW WERE OBTAINED FROM MALCOLM PIRNIE ON 16 NOVEMBER 2004 & 7 FEBRUARY 2005.
3. LOCATION OF SANITARY SEWER AND STORM SEWER LINE WERE TAKEN FROM TOWN OF HAMDEN "STORM SEWER PLANS, AMENDED JANUARY 1999". LOCATIONS ARE APPROXIMATE AND SHOULD NOT BE RELIED ON FOR EXPLORATION OR CONSTRUCTION PURPOSES.

HALEY ALDRICH

ROCHFORD FIELD AND VILLANO PARK
NEWHALL STREET NEIGHBORHOOD
HAMDEN, CONNECTICUT

WELL LOCATIONS AND GROUNDWATER CLASSIFICATION

SCALE: AS SHOWN
OCTOBER 2017

FIGURE 2

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2060389

Report Date:June 20, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 27892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 6.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-402	2060389-01	Water	6/14/2022 9:10	06/14/2022
RF-401	2060389-02	Water	6/14/2022 10:30	06/14/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2060389-01	RF-402	ND	0.00020	mg/L	1	B2F1510	06/15/2022	06/15/2022 15:21	
2060389-02	RF-401	ND	0.00020	mg/L	1	B2F1510	06/15/2022	06/15/2022 15:23	

Client Sample ID RF-402

Lab ID: 2060389-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Arsenic	ND	0.0040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Copper	ND	0.040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	
Zinc	ND	0.020	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:07	

Client Sample ID RF-401

Lab ID: 2060389-02

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Arsenic	ND	0.0040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Copper	ND	0.040	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	
Zinc	ND	0.020	1	EPA 200.7	B2F1508	06/15/2022	06/15/2022 20:12	

QUALITY CONTROL SECTION

Batch B2F1508 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2F1508-BLK1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2F1508-BS1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Lead	0.200	0.013	0.200		100	85 - 115			
Arsenic	0.196	0.0040	0.200		98.0	85 - 115			
Copper	0.195	0.040	0.200		97.3	85 - 115			
Zinc	0.211	0.020	0.200		105	85 - 115			

Batch B2F1510 - EPA 245.2

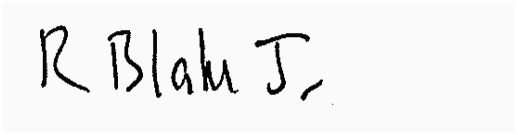
Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2F1510-BLK1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Mercury	ND	0.00020							
LCS (B2F1510-BS1)					Prepared: 6/15/22 Analyzed: 6/15/22				
Mercury	0.00502	0.00020	0.005		100	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Robert Blake



Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 27892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2060389-01 thru 2060389-02 06/14/2022

List RCP Methods Used: ***CET #:*** 2060389

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 06/20/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2F1508	S2F1504	2060389-01	RF-402	EPA 200.7	Water	06/14/2022
B2F1508	S2F1504	2060389-02	RF-401	EPA 200.7	Water	06/14/2022
B2F1510		2060389-01	RF-402	EPA 245.2	Water	06/14/2022
B2F1510		2060389-02	RF-401	EPA 245.2	Water	06/14/2022

2060389

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
RF-402	6/14/22 0910	W					X												X							1	
RF-401	6/14/22 1030	W					X												X							1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Joseph Franklin	6/14/22 1130	
	6/14/22 1500	6/14/22 1500

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Pl.
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motyka Dowle E-mail: dmotyckadowle@haleyaldrich.com
Phone #: 860-572-3939 Fax #:

Project Information

Project: PO #:
Location: Project #: 027892-433
CET Quote # Collector(s): J Franklin
QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 6 °C Evidence of Cooling: Y N
PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

Jacqueline M. Bakos

From: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Sent: Tuesday, June 14, 2022 3:40 PM
To: Jacqueline M. Bakos
Subject: RE: test??

Jacqui
Sorry – new field people.
Total metals (mercury, zinc, lead, copper, arsenic) – same for both wells.

Do you need me to annotate the COC?

He also turned in samples from another project – did he include metals we want on that one?

Thanks!

Deborah L. Motycka Downie, LEP
Senior Technical Specialist
Haley & Aldrich, Inc.
100 Corporate Place, Suite 105
Rocky Hill, CT 06067
Cell: 857.488.7477
Phone:860.572.3939
dmotyckadownie@haleyaldrich.com
www.haleyaldrich.com

From: Jacqueline M. Bakos <jbakos4@cetlabs.com>
Sent: Tuesday, June 14, 2022 3:28 PM
To: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Subject: test??

CAUTION: External Email

Debbie,
What list of metals??

Jacqui Bakos
Sample Manager
Complete Environmental Testing, Inc.
Phone: (203) 377-9984
Fax: (203) 377-9952
www.cetlabs.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2040218

Report Date:April 15, 2022
Project: 27892-433, Rochford Field, Hamden
Project Number: 027892-433

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 3.1°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-401	2040218-01	Water	4/08/2022 9:50	04/08/2022
RF-402	2040218-02	Water	4/08/2022 12:00	04/08/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2040218-01	RF-401	ND	0.00020	mg/L	1	B2D1406	04/14/2022	04/14/2022 15:34	
2040218-02	RF-402	ND	0.00020	mg/L	1	B2D1406	04/14/2022	04/14/2022 15:36	

Client Sample ID RF-401

Lab ID: 2040218-01

Total Metals

Method: EPA 200.7

Analyst: SS

Matrix: Water

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Arsenic	ND	0.0040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Copper	ND	0.040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	
Zinc	**0.092**	0.020	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:37	

Client Sample ID RF-402

Lab ID: 2040218-02

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	ND	0.013	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Arsenic	ND	0.0040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Copper	ND	0.040	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	
Zinc	ND	0.020	1	EPA 200.7	B2D1202	04/12/2022	04/12/2022 19:41	

QUALITY CONTROL SECTION

Batch B2D1202 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2D1202-BLK1)					Prepared: 4/12/22 Analyzed: 4/12/22				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2D1202-BS1)					Prepared: 4/12/22 Analyzed: 4/12/22				
Lead	0.193	0.013	0.200		96.7	85 - 115			
Arsenic	0.200	0.0040	0.200		100	85 - 115			
Copper	0.199	0.040	0.200		99.3	85 - 115			
Zinc	0.195	0.020	0.200		97.5	85 - 115			

Batch B2D1406 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2D1406-BLK1)					Prepared: 4/14/22 Analyzed: 4/14/22				
Mercury	ND	0.00020							
LCS (B2D1406-BS1)					Prepared: 4/14/22 Analyzed: 4/14/22				
Mercury	0.00492	0.00020	0.005		98.4	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-433, Rochford Field, Hamden ***Project Number:*** 027892-433

Laboratory Sample ID(s): ***Sample Date(s):***

2040218-01 thru 2040218-02 04/08/2022

List RCP Methods Used: ***CET #:*** 2040218

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 04/14/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2D1202	S2D1208	2040218-01	RF-401	EPA 200.7	Water	04/08/2022
B2D1202	S2D1208	2040218-02	RF-402	EPA 200.7	Water	04/08/2022
B2D1406		2040218-01	RF-401	EPA 245.2	Water	04/08/2022
B2D1406		2040218-02	RF-402	EPA 245.2	Water	04/08/2022

2040218

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: Metals

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals	TOTAL # OF CONT.	NOTE #
RF-401	4/8 0950	W	X									X	1	
RF-402	4/8 1200	W	X									X	1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B= Sodium Bisulfate W=Water F= Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
[signature]	4/8 1203	[signature]
[signature]	4-8-22 13120	[signature] 04/08/22 13[illegible]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place Suite 105
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motyckka
E-mail: ~~dmotyckka@haleyaldrich.com~~ dmotyckka@haleyaldrich.com 4/8/22
Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:
Location: Hamden, CT Project #: 027892-433
CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 5.1 °C Evidence of Cooling: Y N

PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

2040218

CET

COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile Soils Only:

Date and Time in Freezer

Client:

CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Metals: 8 RCRA, 13 Priority Poll, 15 CT DEP, Total, SPLP, TCLP, Dissolved, Field Filtered, Lab to Filter

Additional Analysis: 8260 CT List, 8260 Aromatics, 8260 Halogens, CT ETPH, 8270 CT List, 8270 PNAs, PCBs ☐ SOX ☐ ASE, Pesticides

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	Metals	TOTAL # OF CONT.	NOTE #
RF-401	4/8 0950	W					X	X	1	
RF-402	4/8 1200	W					X	X	1	

Test for Total: mercury, zinc, lead, copper and arsenic

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Greg Redon	4/8 1203	
	4-8-22 13120	04/08/22 13[illegible]
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Hartley & Aldrich

Address: 100 Corporate Place Suite 105

City: Rocky Hill State: CT Zip: 06067

Report To: Deb Motycka E-mail: dmotycka@hartleyaldrich.com

Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:

Location: Hamden, CT Project #: 027892-433

CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ PDF ☐ EDD - Specify Format Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA

Temp Upon Receipt 3.1 °C Evidence of Cooling: (Y) N

PAGE OF

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.

REV. 12/18

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 2020307

Report Date:February 17, 2022
Project: 27892-430
Project Number: Rochford Field, Hamden

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 5.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
MW-1	2020307-01	Water	2/14/2022 12:45	02/14/2022

Analyte: Mercury [EPA 245.2]

Analyst: EAS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.00020	mg/L	1	B2B1510	02/15/2022	02/15/2022 14:57	

Analyte: Total Zinc [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	0.037	0.020	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

Analyte: Total Lead [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.013	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

Analyte: Total Copper [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.040	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

CET # : 2020307
Project: 27892-430
Project Number: Rochford Field, Hamden

Analyte: Total Arsenic [EPA 200.7]

Analyst: SS

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2020307-01	MW-1	ND	0.0040	mg/L	1	B2B1601	02/16/2022	02/16/2022 16:59	

QUALITY CONTROL SECTION

Batch B2B1510 - EPA 245.2

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2B1510-BLK1)					Prepared: 2/15/2022 Analyzed: 2/15/2022				
Mercury	ND	0.00020							
LCS (B2B1510-BS1)					Prepared: 2/15/2022 Analyzed: 2/15/2022				
Mercury	0.00512	0.00020	0.005		102	85 - 115			

Batch B2B1601 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B2B1601-BLK1)					Prepared: 2/16/2022 Analyzed: 2/16/2022				
Lead	ND	0.013							
Arsenic	ND	0.0040							
Copper	ND	0.040							
Zinc	ND	0.020							
LCS (B2B1601-BS1)					Prepared: 2/16/2022 Analyzed: 2/16/2022				
Lead	0.206	0.013	0.200		103	85 - 115			
Arsenic	0.205	0.0040	0.200		102	85 - 115			
Copper	0.206	0.040	0.200		103	85 - 115			
Zinc	0.214	0.020	0.200		107	85 - 115			

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Timothy Fusco

Project Manager

This report shall not be reproduced except in full, without the written approval of the laboratory

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc. ***Client:*** Haley & Aldrich

Project Location: 27892-430 ***Project Number:*** Rochford Field, Hamden

Laboratory Sample ID(s): ***Sample Date(s):***

2020307-01 02/14/2022

List RCP Methods Used: ***CET #:*** 2020307

,

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 02/17/2022

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- Client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B2B1601	S2B1603	2020307-01	MW-1	EPA 200.7	Water	02/14/2022
B2B1510		2020307-01	MW-1	EPA 245.2	Water	02/14/2022

2020307

CHAIN OF CUSTODY

COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette, Solid, Wipe, Other (Specify)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Turnaround Time ** (check one) Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total Metals	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
MW-1	2/14 1245	W					X												X							1	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other)

CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other)

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
Greg Brashen	2/14 1445	2/14/22 14:45
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:
RELINQUISHED BY:	DATE/TIME	RECEIVED BY:

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place Suite 105
City: Rocky Hill State: CT Zip: 06067
Report To: Deb Motychka E-mail: DMotychkaDonnie@haleyaldrich.com
Phone #: 860-572-3939 Fax #:

Project Information

Project: Rockford Field PO #:
Location: Hamden, CT Project #: 27892-430
CET Quote # Collector(s):

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *

Data Report ☐ PDF ☐ EDD - Specify Format Other

RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other

Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA

Temp Upon Receipt 5.0 °C Evidence of Cooling: (Y) N

PAGE OF

*** Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.**

REV. 12/18

Jacqueline M. Bakos

From: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Sent: Monday, February 14, 2022 5:08 PM
To: Jacqueline M. Bakos
Subject: RE: list of metals

Sorry Jacqui,
we need:

total metals (arsenic, copper, lead, mercury, zinc).

Thanks
Debbie

Deborah L. Motycka Downie, LEP
Senior Technical Specialist
Haley & Aldrich, Inc.
100 Corporate Place, Suite 105
Rocky Hill, CT 06067
Cell: 857.488.7477
Phone:860.572.3939
dmotyckadownie@haleyaldrich.com
www.haleyaldrich.com

From: Jacqueline M. Bakos <jbakos4@cetlabs.com>
Sent: Monday, February 14, 2022 3:51 PM
To: Motycka Downie, Deb <DMotyckaDownie@haleyaldrich.com>
Subject: list of metals

CAUTION: External Email

Deb,
For the attached chain what list of metals are you looking for??
Thank you

Jacqui Bakos
Sample Manager
Complete Environmental Testing, Inc.
Phone: (203) 377-9984
Fax: (203) 377-9952
www.cetlabs.com

80 Lupes Drive
Stratford, CT 06615

Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cetlabs.com

Client: Ms. Debbie Motycka-Downie
Haley & Aldrich
100 Corporate Place, Suite 105
Rocky Hill, CT 06067-1803

Analytical Report

CET# 1060737R

Report Date:July 07, 2021
Project: 27892-430
Project Number: Rochford Field, Hamden

Connecticut Laboratory Certificate: PH 0116
Massachusetts Laboratory Certificate: M-CT903
Rhode Island Laboratory Certificate: 199

New York NELAP Accreditation: 11982
Pennsylvania Laboratory Certificate: 68-02927

SAMPLE SUMMARY

The sample(s) were received at 4.0°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
RF-HA123-MW	1060737-01	Water	6/24/2021 11:25	06/25/2021
RF-HA301-MW	1060737-02	Water	6/24/2021 12:03	06/25/2021
RF-HA108-MW	1060737-03	Water	6/24/2021 12:55	06/25/2021
RF-HA115-MW	1060737-04	Water	6/24/2021 13:18	06/25/2021

Analyte: Total Zinc [EPA 200.7] **Analyst: SS**

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1060737-01	RF-HA123-MW	0.81	0.020	mg/L	1	B1F2926	06/29/2021	06/30/2021 15:54	
1060737-02	RF-HA301-MW	0.10	0.020	mg/L	1	B1F2926	06/29/2021	06/30/2021 15:58	
1060737-03	RF-HA108-MW	0.086	0.020	mg/L	1	B1F2926	06/29/2021	06/30/2021 16:11	
1060737-04	RF-HA115-MW	0.58	0.020	mg/L	1	B1F2926	06/29/2021	06/30/2021 16:15	

Analyte: Total Mercury [EPA 200.8] **Analyst: SS**

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1060737-01	RF-HA123-MW	0.0013	0.00040	mg/L	1	B1F2902	06/29/2021	06/29/2021 14:02	

Analyte: Total Copper [EPA 200.7] **Analyst: SS**

Matrix: Water

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
1060737-01	RF-HA123-MW	ND	0.040	mg/L	1	B1F2926	06/29/2021	06/30/2021 15:54	

Client Sample ID RF-HA123-MW

Lab ID: 1060737-01

Total Metals **Analyst: SS**

Method: EPA 200.7 **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
Lead	**0.021**	0.013	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Selenium	ND	0.010	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Cadmium	ND	0.0050	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Chromium	ND	0.050	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Arsenic	ND	0.0040	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Barium	**0.33**	0.050	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	
Silver	ND	0.012	1	EPA 200.7	B1F2926	06/29/2021	06/30/2021 15:54	

Conn. Extractable TPH **Analyst: ACS**

Method: CT-ETPH **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B1F2905	06/29/2021	06/29/2021 23:29	
Surrogate: Octacosane	*97.1 %*	*50 - 150*			B1F2905	06/29/2021	*06/29/2021 23:29*	

Client Sample ID RF-HA115-MW

Lab ID: 1060737-04

Conn. Extractable TPH **Analyst: ACS**

Method: CT-ETPH **Matrix: Water**

Analyte	Result (mg/L)	RL (mg/L)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	ND	0.10	1	EPA 3510C	B1F2905	06/29/2021	06/29/2021 23:53	
Surrogate: Octacosane	*95.4 %*	*50 - 150*			B1F2905	06/29/2021	*06/29/2021 23:53*	

QUALITY CONTROL SECTION

Batch B1F2902 - EPA 200.8

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B1F2902-BLK1)					Prepared: 6/29/21 Analyzed: 6/29/21				
Mercury	ND	0.00040							
LCS (B1F2902-BS1)					Prepared: 6/29/21 Analyzed: 6/29/21				
Mercury	0.00494	0.00040	0.005		98.7	85 - 115			

Batch B1F2905 - CT-ETPH

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B1F2905-BLK1)					Prepared: 6/29/21 Analyzed: 6/29/21				
ETPH	ND	0.10							
Surrogate: Octacosane					*110*	*50 - 150*			
LCS (B1F2905-BS1)					Prepared: 6/29/21 Analyzed: 6/29/21				
ETPH	0.340	0.10	0.500		68.0	60 - 120			
Surrogate: Octacosane					*87.6*	*50 - 150*			

Batch B1F2926 - EPA 200.7

Analyte	Result (mg/L)	RL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Blank (B1F2926-BLK1)					Prepared: 6/29/21 Analyzed: 6/30/21				
Lead	ND	0.013							
Selenium	ND	0.010							
Cadmium	ND	0.0050							
Chromium	ND	0.050							
Arsenic	ND	0.0040							
Barium	ND	0.050							
Silver	ND	0.012							
Copper	ND	0.0050							
Zinc	ND	0.0050							
LCS (B1F2926-BS1)					Prepared: 6/29/21 Analyzed: 6/30/21				
Lead	0.199	0.013	0.200		99.3	85 - 115			
Selenium	0.385	0.010	0.400		96.3	85 - 115			
Cadmium	0.194	0.0050	0.200		97.1	85 - 115			
Chromium	0.185	0.050	0.200		92.6	85 - 115			
Arsenic	0.194	0.0040	0.200		96.8	85 - 115			
Barium	0.185	0.050	0.200		92.5	85 - 115			
Silver	0.0948	0.012	0.100		94.8	85 - 115			
Copper	0.184	0.0050	0.200		92.0	85 - 115			
Zinc	0.206	0.0050	0.200		103	85 - 115			

CASE NARRATIVE

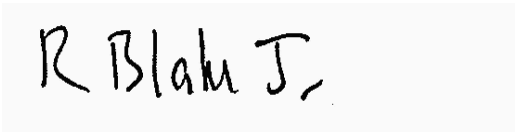
Revision: Original report dated (7/1/2021); Reported total zinc and copper for 1060737-01 per client request.

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

David Ditta
Laboratory Director

This technical report was reviewed by Robert Blake



Project Manager

Report Comments:

Sample Result Flags:
E- The result is estimated, above the calibration range.
H- The surrogate recovery is above the control limits.
L- The surrogate recovery is below the control limits.
B- The compound was detected in the laboratory blank.
P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
+- The Surrogate was diluted out.
*C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
*C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
*F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
*F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
*I- Analyte exceeds method limits from second source standard in Initial Calibration Verification (ICV). No directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit
Reporting Limit (RL) is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
All analyses were performed in house unless a Reference Laboratory is listed.
Samples will be disposed of 30 days after the report date.

80 Lupes Drive
Stratford, CT 06615

COMPLETE ENVIRONMENTAL TESTING, INC.

Tel: (203) 377-9984
Fax: (203) 377-9952
email: cet1@cetlabs.com

Quality Control Definitions and Abbreviations

Internal Standard (IS)	An Analyte added to each sample or sample extract. An internal standard is used to monitor retention time, calculate relative response, and quantify analytes of interest.
Surrogate Recovery	The % recovery for non-target organic compounds that are spiked into all samples. Used to determine method performance.
Continuing Calibration	An analytical standard analyzed with each set of samples to verify initial calibration of the system.
Batch	Samples that are analyzed together with the same method, sequence and lot of reagents within the same time period.
ND	Not detected at or above the specified reporting limit.
RL	RL is the limit of detection for an analyte after any adjustment made for dilution or percent moisture.
Dilution	Multiplier added to detection levels (MDL) and/or sample results due to interferences and/or high concentration of target compounds.
Duplicate	Result from the duplicate analysis of a sample.
Result	Amount of analyte found in a sample.
Spike Level	Amount of analyte added to a sample
Matrix Spike Result	Amount of analyte found including amount that was spiked.
Matrix Spike Dup	Amount of analyte found in duplicate spikes including amount that was spike.
Matrix Spike % Recovery	% Recovery of spiked amount in sample.
Matrix Spike Dup % Recovery	% Recovery of spiked duplicate amount in sample.
RPD	Relative percent difference between Matrix Spike and Matrix Spike Duplicate.
Blank	Method Blank that has been taken through all steps of the analysis.
LCS % Recovery	Laboratory Control Sample percent recovery. The amount of analyte recovered from a fortified sample.
Recovery Limits	A range within which specified measurements results must fall to be compliant.
CC	Calibration Verification

Flags:

- H- Recovery is above the control limits
- L- Recovery is below the control limits
- B- Compound detected in the Blank
- P- RPD of dual column results exceeds 40%
- #- Sample result too high for accurate spike recovery.

NELAP ACCREDITED TNI LABORATORY

Connecticut Laboratory Certification PH0116
Massachussets Laboratory Certification M-CT903
Pennsylvania NELAP Accreditation 68-02927

New York NELAP Accreditation 11982
Rhode Island Certification 199

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Complete Environmental Testing, Inc.

Client: Haley & Aldrich

Project Location: 27892-430

Project Number: Rochford Field, Hamden

Laboratory Sample ID(s):

1060737-01 thru 1060737-04

Sample Date(s):

06/24/2021

List RCP Methods Used:

CT-ETPH

CET #: 1060737

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CT DEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5a	a) Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5b	b) Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all consituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project specific matrix spikes and laboratory duplicates included with this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:  **Position:** Laboratory Director

Printed Name: David Ditta **Date:** 07/01/2021

Name of Laboratory: Complete Environmental Testing, Inc.

This certification form is to be used for RCP methods only.

RCP Case Narrative

6- The client requested a subset of the RCP metals list.

7- Project specific QC was not requested by the client.

QC Batch/Sequence Report

Batch	Sequence	CET ID	Sample ID	Specific Method	Matrix	Collection Date
B1F2905		1060737-01	RF-HA123-MW	CT-ETPH	Water	06/24/2021
B1F2905		1060737-04	RF-HA115-MW	CT-ETPH	Water	06/24/2021
B1F2926	S1F3005	1060737-01	RF-HA123-MW	EPA 200.7	Water	06/24/2021
B1F2926	S1F3005	1060737-02	RF-HA301-MW	EPA 200.7	Water	06/24/2021
B1F2926	S1F3005	1060737-03	RF-HA108-MW	EPA 200.7	Water	06/24/2021
B1F2926	S1F3005	1060737-04	RF-HA115-MW	EPA 200.7	Water	06/24/2021
B1F2902	S1F2908	1060737-01	RF-HA123-MW	EPA 200.8	Water	06/24/2021

1060737

1/1

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CHAIN OF CUSTODY

CET
COMPLETE ENVIRONMENTAL TESTING, INC.

Volatile Soils Only:
Date and Time in Freezer
Client:
CET:

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cetservices@cetlabs.com
e-mail: bottleorders@cetlabs.com

Matrix: A=Air, S=Soil, W=Water, DW=Drinking Water, C=Cassette Solid, Wipe, Other (Specify)

Turnaround Time ** (check one): Same Day *, Next Day *, Two Day *, Three Day *, Std (5-7 Days)

Sample ID/Sample Depths (include Units for any sample depths provided)	Collection Date/Time	Matrix	Same Day *	Next Day *	Two Day *	Three Day *	Std (5-7 Days)	8260 CT List	8260 Aromatics	8260 Halogens	CT ETPH	8270 CT List	8270 PNAs	PCBs ☐ SOX ☐ ASE	Pesticides	Metals: 8 RCRA	13 Priority Poll	15 CT DEP	Total Zinc	SPLP	TCLP	Dissolved	Field Filtered	Lab to Filter	Additional Analysis	TOTAL # OF CONT.	NOTE #
RF-HA123-MW	06/24/2021@1125	W					X				X					X										2	
RF-HA301-MW	06/24/2021@1203	W					X												X							1	
RF-HA108-MW	06/24/2021@1255	W					X												X							1	
RF-HA115-MW	06/24/2021@1318	W					X				X								X							2	

PRESERVATIVE (Cl–HCl, N–HNO_3, S–H_2SO_4, Na–NaOH, C=Cool, O–Other): C, N, N
CONTAINER TYPE (P–Plastic, G–Glass, V–Vial, O–Other): G, D, P

Soil VOCs Only (M=MeOH B=Sodium Bisulfate W=Water F=Empty Vial E=Encore)

RELINQUISHED BY: [signature] DATE/TIME: 06/24/2021@1730 RECEIVED BY: H+A Fridge.
RELINQUISHED BY: [signature] DATE/TIME: 6/25/2021@1117 RECEIVED BY: [signature]
RELINQUISHED BY: [signature] DATE/TIME: 6/25/21 1430 RECEIVED BY: [signature] 6-25-21

NOTES:

Client / Reporting Information

Company Name: Haley & Aldrich
Address: 100 Corporate Place
City: Rocky Hill State: CT Zip:
Report To: Debbie Motyckа E-mail: dmotyckadown.e@HaleyAldrich.com
Phone # Fax #

Project Information

AAL 06/24/2021

Project: Rochford Field PO #: ~~27892-00~~
Location: Hamden, CT Project #: 27892-430
CET Quote # Collector(s): A. Lemos / G. Rodman

QA/QC ☐ Std ☐ Site Specific (MS/MSD) * ☐ RCP Pkg * ☐ DQAW *
Data Report ☐ PDF ☐ EDD - Specify Format Other
RSR Reporting Limits (check one) ☐ GA ☐ GB ☐ SWP ☐ Other
Laboratory Certification Needed (check one) ☐ CT ☐ NY ☐ RI ☐ MA ☐ PA
Temp Upon Receipt 4 °C Evidence of Cooling: (Y) N PAGE OF

*** Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.**

REV. 12/18