2020 Annual Groundwater Sampling Report

Location:

729 Cross Road
Oaks Corners, New York

Prepared For:
Elderlee, Inc.
729 Cross Road
Oaks Corners, New York 14518

December 2020

Prepared By:

NEU-VELLE LLC

Eastman Business Park, 1667 Lake Avenue, Building 59, 1st Floor
Rochester, New York 14615

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1.0 Introduction

NEU-VELLE, LLC ("NEU-VELLE") was retained by Elderlee, Inc. to provide professional environmental services at 729 Cross Road, Oaks Corners, New York, hereinafter referred to as the "Site" for the 2020 annual groundwater sampling event. (Figure 1)

A portion of this Site (Elderlee, Inc.) in Oaks Corners, New York is a listed New York State Department of Environmental Conservation (NYSDEC) Inactive Hazardous Waste Disposal Site (NYSDEC ID3 835014). This Site has been utilized to manufacture road signs, galvanized highway bridge rail, and guide rails since approximately 1968. Hazardous waste was disposed of in two (2) distinct areas of the Site.

Area A is a location of two (2) former settling lagoons that are located north of the galvanizing plant and used for neutralizing waste sulfuric acid until approximately 1984. Elevated levels of zinc and lead were detected in soil samples collect from the former lagoon area. A Remedial Investigation/Feasibility Study (RI/FS) was conducted at the Site in the fall of 1995. The RI/FS was finalized in 1998 and a Record of Decision (ROD) was signed in March 1998. The ROD specified asphalt capping of the former lagoon area combined with continued semi-annual ground water monitoring of selected wells located within, and downgradient, from Area A. The sampling frequency was subsequently reduced to annual sampling.

Area B was the former paint waste disposal area immediately southeast of the sign plant at the Site. Waste paint thinner and cleaning solvents were reportedly disposed of on the ground surface. Elevated levels of xylene, ethylbenzene, toluene and acetone have been detected in soil and groundwater samples collected form this area. The March 1998 ROD specified the operation and enhanced bioremediation program (i.e., oxygen injection) in this area combined with continued groundwater monitoring of selected wells located within the downgradient from Area B. After ground water analytical results indicated a significant decrease in contaminant levels with Area B monitoring wells utilizing a passive (wind-powered) soil vapor extraction system was installed to treat unsaturated soils in the area in the summer of 2001. Based on analytical results, periodic sampling of Area B ground water monitoring wells was terminated in 2006.

1.1 Objective

The objective of this project is to monitor Area A groundwater monitoring wells, collect cap photos and provide an annual progress report for Area A at the Site. The Scope of Work in Section 2.0 of this Report was conducted at the Site.

2.0 Scope of Work

2.1 Annual Sampling of Area A Groundwater Monitoring Wells

The NYSDEC requires the annual sample of Area A monitoring wells (MW-4A, MW-5A, MW-

8, MW-9R, MW-10R, and MW-11). To meet the objective, NEU-VELLE completed the following:

1. A NEU-VELLE Environmental Scientist measured water levels from all on-site Area A monitoring wells prior to sample collection using an electronic water level meter calibrated to ±0.01 foot. Measurements were taken from the top of the inner PVC casing of each well which have previously been surveyed for elevation. Water level measurements were recorded on the groundwater sampling logs generated for each well sampled. The groundwater sampling logs are contained in Appendix C.

2. Prior to groundwater sampling, the monitoring wells were purged by the NEU-VELLE Environmental Scientist. Specifically, a peristaltic pump and dedicated Teflon tubing were used to purge the selected wells using low flow methodologies. Field parameter measurements for pH, Specific Conductance, Temperature and Turbidity were collected at five-minute intervals, then recorded on the individual Groundwater Sampling Log Sheets for each well sampled. Purging was considered complete with the field parameters of pH and Specific Conductance stabilized to within 10% for three (3) successive readings, and when the turbidity readings were at or below 10 Nephelometric Turbidity Units (NTUs). However, since the turbidity criteria of 10 NTUs could not be achieved, sampling was completed after turbidity measurements stabilized.

3. Groundwater samples were collected from each well once the purging criteria described above had been reached. The samples were collected using the peristaltic pump operating at the same low flow rate utilized during purging of the well. The groundwater samples were placed in laboratory supplied bottles, placed in a cooler on ice, and transported to Paradigm Laboratories under chain-of-custody procedures for the following analysis:

    - Target Analyte List (TAL) Metals by USEPA Methods 6010 and 7471
    - Chloride and Sulfate Ions by USEPA Method 300.0

2.2 Deviation from Reporting Requirements

This is the seventh annual reporting period for well MW-9R and MW-10R monitoring well locations, which replaced former well locations MW-9 and MW-10.

2.3 Annual Progress Report

Following sampling, NEU-VELLE prepared this Annual Progress Report for the Site. The Report details the field methodologies implemented at the Site, and summarizes and discusses the results of the work, including a comparison of the current analytical result to historical site data as well as the appropriate NYSDEC Groundwater Standards and Guidance Values.

This Annual Progress Report will be submitted electronically as follows:

- Jonathan Tamargo – NYSDEC Region 8
- Karis Manning – NYSDEC Region 8
- Adam Morgan – NYSDEC Region 8
- Director, Bureau of Environmental Exposure Investigation – NYSDOH
- Robert Lamb – Elderlee, Inc

3.0 Field Measurements

On May 13, 2020, NEU-VELLE Environmental Scientist measured the water levels within the referenced groundwater monitoring wells in Area A with an electronic water level meter. Static water level readings were utilized to evaluate the groundwater flow pattern with historical data.

Well I.D.	Static Water Level (feet)	Depth of Well (feet)
MW-4A	3.51	12.0
MW-5A	2.60	11.3
MW-8	6.35	13.9
MW-9R	10.20	20.0
MW-10R	6.84	15.0
MW-11	1.13	12.3

The Site groundwater flow direction was calculated from the above static water level measurements collected on May 13, 2020 is depicted in Figure 3 – Appendix A. Water-level elevation data indicate groundwater to be flowing in a southeast direction on site.

4.0 Analytical Results

The laboratory results were compared to the NYCRR Part 703 Groundwater Standards from the NYSDEC Technical and Operational Guidance Series (1.1.1) Memorandum, and to historical analytical data collected for each well. Table 2 presents the analytical data from the Area A monitoring wells from the sampling event. Tables 3 through 8 present the current and historic analytical data for each well in Area A. Appendix E contains the laboratory report.
The following summarizes the infringements of groundwater quality standards identified during the 2020 annual sampling event:

- Two (2) wells (MW-9R and MW-11) contained concentrations of Chloride Ion that exceeded the NYCRR Part 703 Groundwater Standard.

- Five (5) wells (MW-4A, MW-5A, MW-8, MW-10R and MW-11) contained concentrations of Sulfate Ion that exceeded the NYCRR Part 703 Groundwater Standard.

- Five (5) wells (MW-4A, MW-5A, MW-8, MW-10R and MW-11) contained concentrations of iron that exceeded the NYCRR Part 703 Groundwater Standard.

- Five (5) wells (MW-4A, MW-5A, MW-9R, MW-10R and MW-11) contained concentrations of magnesium that exceeded the NYCRR Part 703 Groundwater Standard.

- Five (5) wells (MW-4A, MW-5A, MW-8, MW-10R and MW-11) contained concentrations of manganese that exceeded the NYCRR Part 703 Groundwater Standard.

- Six (6) wells (MW-4A, MW-5A, MW-8, MW-9R, MW-10R and MW-11) contained concentrations of sodium that exceeded the NYCRR Part 703 Groundwater Standard.

- One (1) well (MW-4A) contained concentrations of zinc that exceeded the NYCRR Part 703 Groundwater Standard.

The concentration of analytes detected in groundwater samples collected on May 13, 2020 were generally within the ranges of values previously recorded for Area A monitoring wells. Appendix B – Table 2 depicts the results from the May 13, 2020 annual sampling event.

5.0 Summary of Findings

Summary of Findings

In general, the concentrations of analytes of concern have remained relatively unchanged over the past year. Many of the analytes that exceed the Part 703 Value in the previous sampling event were reported at concentrations still exceeding the Part 703 Value in the May 13, 2020 sampling event.

Concentrations of analytes of concern were below the standard deviation (SD) above their associated historical average concentration except for the following well/analyte that exceeded the historical average by one SD:

- MW-4A: Magnesium, Manganese, Sodium, Zinc and Sulfate
- MW-5A: Magnesium, Manganese, Sodium and Sulfate
- MW-8: Iron, Manganese and Sulfate
- MW-9R: Magnesium, Sodium and Chloride
- MW-10R: Magnesium, Manganese, Sodium and Chloride
- MW-11: Iron, Magnesium, Manganese, Sodium and Sulfate

Appendix B depicts the historical data in Table 3 through 8.

Conclusions

- Overall, the concentrations of analytes of interest are either decreasing in certain compounds or have remained relatively stable. Additionally, the analytical parameters have included testing for TAL metals, chloride, and sulfates. Generally, only a select few metals have been detected above the Part 703 Values on a consistent basis. These metals include:

    - Iron
    - Magnesium
    - Manganese
    - Sodium
    - Zinc
    - Chloride
    - Sulfate

- As requested by the NYSDEC, a change of use and corrective action work plan was developed and submitted to the NYSDEC to address the BMP's for Area A. Area A consists of the two (2) former settling lagoons that are asphalt capped that are located north of the galvanizing plant. Based on the agreement between the NYSDEC and Elderlee, the following was implemented back in 2018.

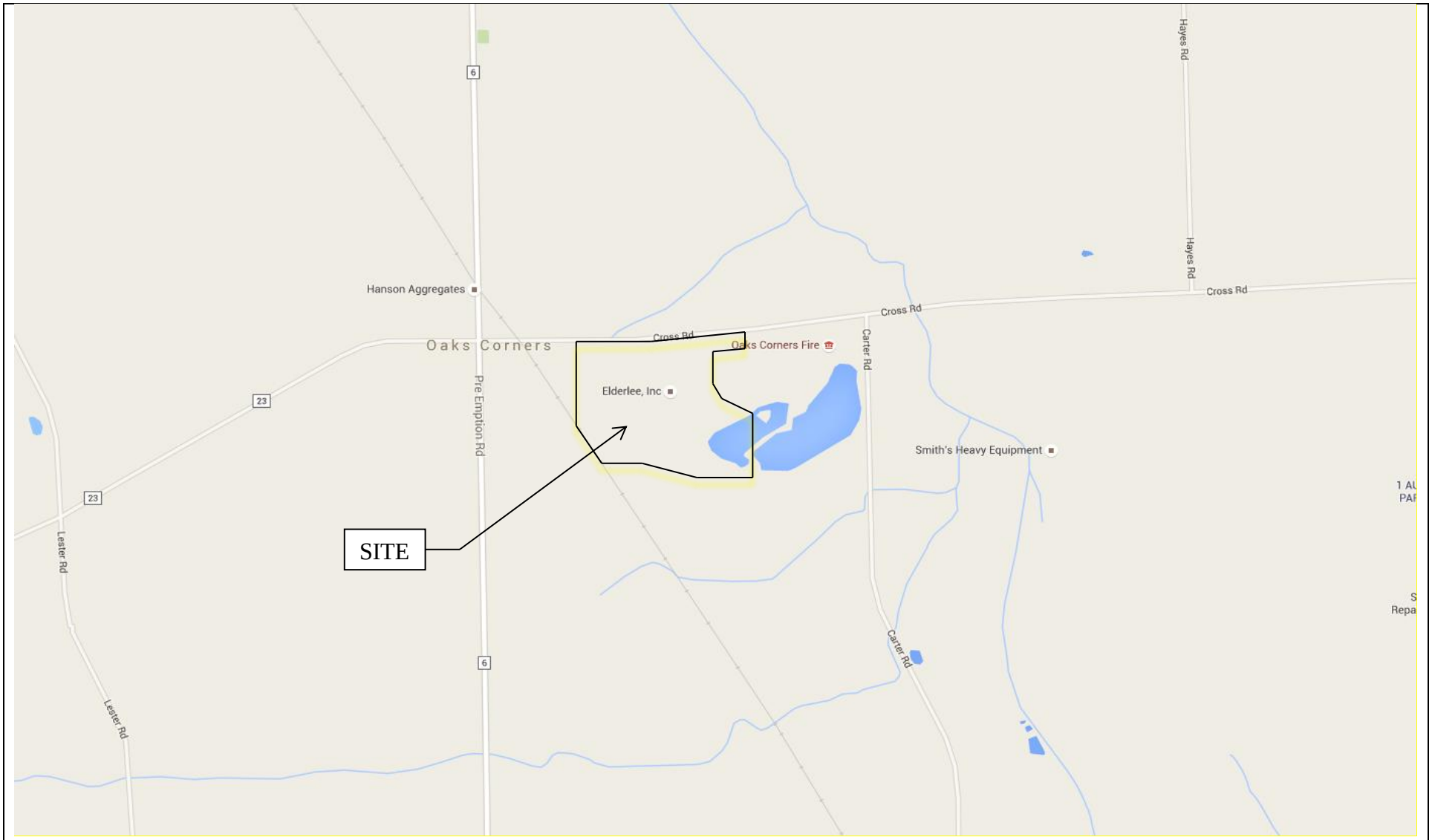
    - A lining for a section storm water piping to the west of Area A was completed to restrict infiltration into the piping.

    - Installation for drainage swale to the east of the manufacturing facility to control no industrial storm water from entering the site.

    - The former dewatering pump station was abandoned, removed and closed.

APPENDIX A

FIGURES



NEU-VELLE LLC

1667 Lake Avenue, Building 59, Suite 101, Rochester, New York 14615

Site Location Map
Elderlee, Inc. - 729 Cross Road, Oaks Corners, NY

Drawn Date: June 2020	
Drawn By: J. Moore	
Scale: NTS	Drawing No. 1

NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

ELDERLEE, INC. - AREA A

729 CROSS ROAD, OAKS CORNERS, NY

NEU-VELLE LLC

1667 LAKE AVENUE
ROCHESTER, NEW YORK 14615

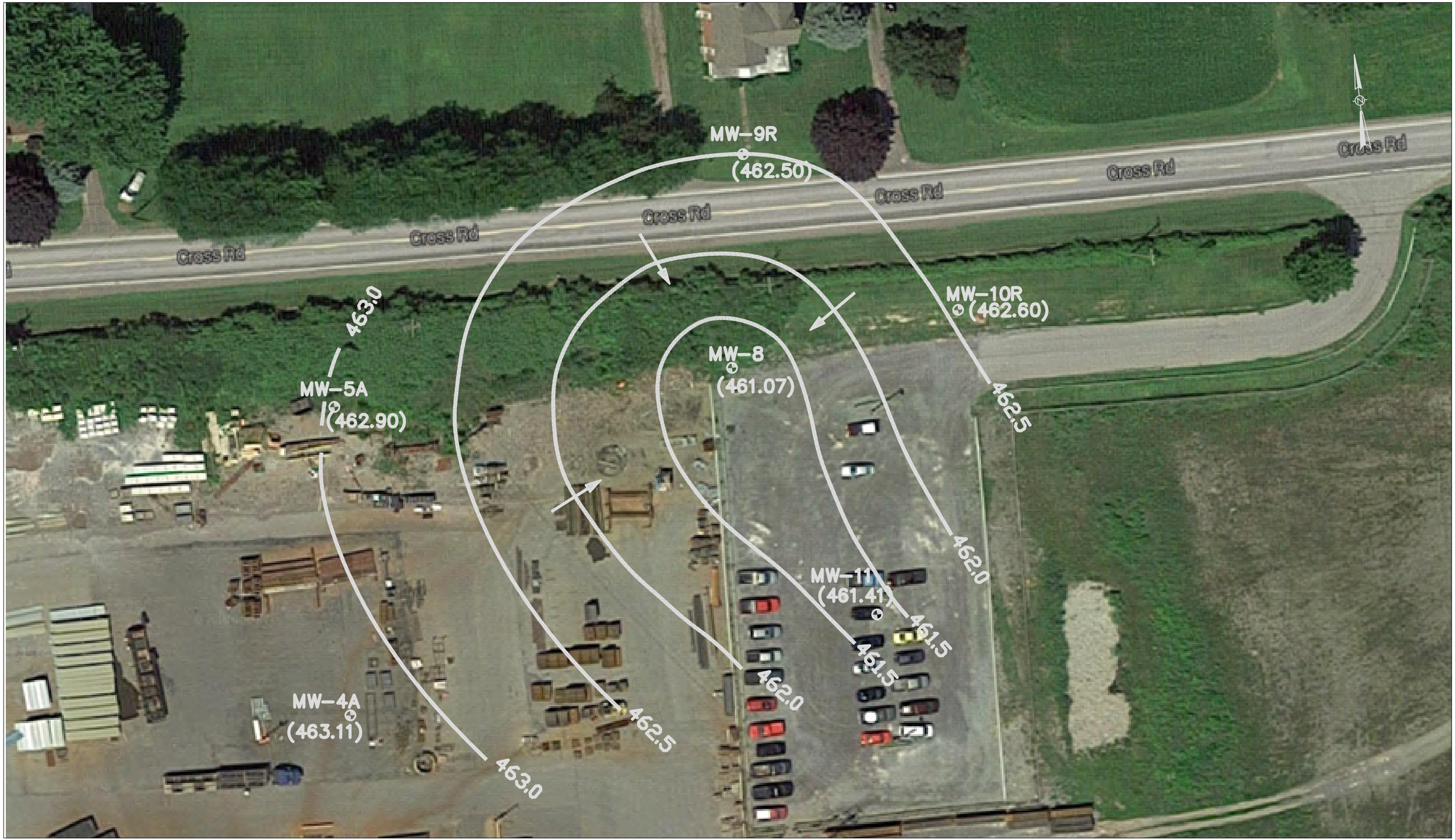
CHECKED	JAM	5/2020
DESIGN ENGINEER	JAM	5/2020
PROJECT ENGINEER	JAM	5/2020
PROJECT MANAGER	JAM	5/2020
APPROVED	JAM	5/2020
APPROVED	JAM	5/2020

MONITOIRNG WELL LOCATION MAP
MAY 13 2020

DRAWN: JAM	DATE: MAY 2020	REVISION DATE:
SCALE: NOT TO SCALE	JOB NO.	FILE NAME:

DRAWING NO. 2 REV. NO.

SHEET 1 OF 1



NO.	DATE	APPR.	REVISION	NO.	DATE	APPR.	REVISION

ELDERLEE, INC. - AREA A

729 CROSS ROAD, OAKS CORNERS, NY

NEU-VELLE LLC

1667 LAKE AVENUE
ROCHESTER, NEW YORK 14615

CHECKED	JAM	5/2020
DESIGN ENGINEER	JAM	5/2020
PROJECT ENGINEER	JAM	5/2020
PROJECT MANAGER	JAM	5/2020
APPROVED	JAM	5/2020
APPROVED	JAM	5/2020

GROUNDWATER CONTOUR MAP
MAY 13 2020

DRAWN: JAM	DATE: MAY 2020	REVISION DATE:
SCALE: NOT TO SCALE	JOB NO.	FILE NAME:

DRAWING NO. 3 REV. NO.

SHEET 1 OF 1

APPENDIX B

ANALYITICAL SUMMARY TABLES

Table 1
Annual Groundwater Sampling
729 Cross Road, Oaks Corners, New York

Summary of Monitoring Well Depths
May 13, 2020

Well I.D.	Static Water Level (feet)	Depth of Well (feet)
MW-4A	3.51	12.04
MW-5A	2.60	11.3
MW-8	6.35	13.9
MW-9R	10.20	20.0
MW-10R	6.84	15.0
MW-11	1.13	12.3

Table 2
Elderlee, Inc. Oaks Corners Facility - Area A
Table of Analytical Results - May 13, 2020

Field Parameters	Units	Method	MW-4A	MW-5A	MW-8	MW-9R	MW-10R	MW-11	6NYCRR Part 703 MCL/Std.
Gradient Location	NA	NA	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	Downgradient	NS
Static Water Level	feet	NA	3.51	2.60	6.35	10.20	6.84	1.13	NS
Specific Conductance	umhos/cm	NA	2,461	2,546	1,906	2,042	1,539	2,605	NS
Temperature	Degrees C	NA	12.5	9.0	10.1	9.7	10.4	10.1	NS
pH	S.U.	NA	6.86	7.00	6.90	7.10	7.06	7.05	6.5 - 8.5
Turbidity	NTU	NA	2.9	0.5	0.71	0.60	1.1	9.7	NS
Metals									
Aluminum	ug/l	200.7	ND	ND	ND	ND	ND	145	NS
Antimony	ug/l	200.7	ND	ND	ND	ND	ND	ND	3
Arsenic	ug/l	200.7	ND	ND	ND	ND	ND	14.1	25
Barium	ug/l	200.7	ND	ND	ND	ND	ND	ND	1,000
Beryllium	ug/l	200.7	ND	ND	ND	ND	ND	ND	3
Cadmium	ug/l	200.7	ND	ND	ND	ND	ND	ND	5
Calcium	ug/l	200.7	496,000	494,000	399,000	165,000	219,000	339,000	NS
Chromium	ug/l	200.7	ND	ND	ND	ND	ND	ND	50
Cobalt	ug/l	200.7	ND	ND	ND	ND	ND	ND	5
Copper	ug/l	200.7	ND	ND	ND	ND	ND	ND	200
Iron	ug/l	200.7	**2,380**	**868**	**3,380**	120	**963**	**5,740**	300
Lead	ug/l	200.7	ND	ND	ND	ND	ND	ND	25
Magnesium	ug/l	200.7	**57,500**	**35,800**	24,500	**35,100**	**40,300**	**57,700**	35,000
Manganese	ug/l	200.7	**503**	**409**	**537**	49	**1,810**	**1,140**	300
Mercury	ug/l	245.1	ND	ND	ND	ND	ND	ND	0.7
Nickel	ug/l	200.7	ND	ND	ND	ND	ND	ND	100
Potasium	ug/l	200.7	3,890	ND	ND	3,110	ND	4,210	NS
Selenium	ug/l	200.7	ND	ND	ND	ND	ND	ND	10
Silver	ug/l	200.7	ND	ND	ND	ND	ND	ND	50
Sodium	ug/l	200.7	**141,000**	**57,700**	**36,100**	**195,000**	**61,900**	**175,000**	20,000
Thallium	ug/l	200.7	ND	ND	ND	ND	ND	ND	0.5
Vanadium	ug/l	200.7	ND	ND	ND	ND	ND	ND	NS
Zinc	ug/l	200.7	**13,600**	312	1,460	177	824	ND	2,000
Wet Chemistry									
Chloride	mg/l	300.0	240	88	55	**430**	120	**290**	250
Sulfate	mg/l	300.0	**1,400**	**1,200**	**840**	83	**430**	**770**	250

Bold Type *- Exceeds NYCRR Part 703 Groundwater Standard from NYSDEC Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

NA - Not Applicable

ND<5.0 denotes that the constituent was not detected above the reported laboratory method detection limit.

NS - No Groundwater Standard

B - This flag indicates the compound was also detected in the associated Method Blank. The B flag has an alternative meaning for Inorganics analyses reported using CLP ILM-type metals forms, indicating a "trace" concentration below the reporting limit and equal to or above the detection limit.

--- - Not Sampled

Table 3
Elderlee, Inc. Oaks Corners Facility - MW-4A

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	06/11/15	06/20/14	07/01/13	04/11/12	07/22/11	05/15/09	05/27/08	06/14/07	06/13/06	06/01/05	12/06/04	06/02/04	12/16/03	07/10/03	02/19/03	06/06/02	12/06/01	06/22/01	12/14/00	06/01/00	###	Arithmetic Mean	Standard Deviation
Static Water Level	feet	NA	NS	3.60	3.31	3.16	3.07	3.36	2.95	3.75	3.55	5.48	4.42	3.7	3.81	3.85	3.75	3.79	3.93	3.31	3.66	4.01	4.67	3.43	4.66	3.98	3.77	3.25	NA	3.77	0.57
Specific Conductance	umhos/cm	NA	NS	2,461	1,890	3,100	3,930	2,520	3,140	3,340	2,550	1,910	3,730	2,833	2,810	3,190	3,320	2,920	3,350	3,160	3,590	3,630	3,539	2,610	3,020	2,520	3,380	3,060	NA	3020.12	524.40
Temperature	Degrees C	NA	NS	12.5	12.9	11.7	14	15.2	16.5	21.16	20.21	11.4	23.81	15.4	14.80	18.00	16.90	21.20	9.10	15.10	10.20	18.80	8.10	15.90	15.90	20.30	7.80	17.10	NA	15.36	4.25
pH	S.U.	NA	6.5--8.5	6.86	6.65	6.75	5.07	7.17	6.82	6.74	6.75	6.57	8.2	7.77	7.62	6.85	7.07	7.12	6.85	6.68	6.75	6.21	6.97	6.68	6.69	6.74	6.52	6.81	NA	6.84	0.56
Turbidity	NTU	NA	NS	2.9	2.21	2.6	12	21	22.8	12.5	15.2	3.0	33.5	9.8	44.00	30.00	8.00	5.00	100.00	18.00	3.00	6.00	8.04	2.89	7.63	NA	12.00	11.50	NA	16.98	21.11
Metals																														
Aluminum	ug/l	200.7	NS	ND	ND	ND	532.0	1,080.0	470.0	ND	ND	70.9 B	ND	190	269	ND	102	ND	241	ND	ND	ND	ND	13	209	149	71 B	ND	B	265.39	295.71
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	20.5 B	ND		20.50	#DIV/0!
Arsenic	ug/l	200.7	25	ND	ND	ND	ND	ND	11.4	ND	ND	ND J	4.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.4 B	ND	ND		6.57	4.25
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	ND	30.1 B	ND	15.7 B	43 J	ND	ND	37.4	ND	ND	ND	ND	ND	ND	ND	18.1	ND	22.9	14.1 B	44.5	B	27.74	11.36
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	24.2 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.9	ND	ND		12.55	16.48
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	4.0 B	ND	3.9 B	3.2 J	ND	ND	ND	ND	ND	ND	6.1	**7.3**	ND	**5.2**	3.4	ND	4.0 B	4.3 B	7.0		4.84	1.48
Calcium	ug/l	200.7	NS	496,000	320,000	572,000	592,000	425,000	607,000	523,000	475,000	347,000	560,000	425,000	497,000	557,000	596,000	495,000	584,000	443,000	551,000	498,000	553,000	536,000	503,000	347,000	575,000	572,000		522551.72	83447.37
Chromium	ug/l	200.7	50	ND	ND	ND	21.2	47.7	16.4	3.2 B	2.7 B	10.5 B	1.1 J	11	11.3	ND	ND	ND	17.5	11.9	11.7	12.8	ND	3.4	43.8	14.2	2.6 B	ND		14.29	13.19
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	1.5 B	2.0 B	1.5 B	1.5 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.7 B	3 B	ND	B	1.93	0.67
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	3.8 B	ND	4.6 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.88 B	ND	ND		3.09	1.96
Iron	ug/l	200.7	300	**2,380**	**1,420**	**6,460**	**2,860**	**6,070**	**1,980**	**6,790**	**5,660**	**2,350**	**8,300**	**2,480**	**4,190**	**8,770**	**12,300**	**7,160**	**14,800**	**7,250**	**9,690**	**5,950**	**15,300**	**13,100**	**13,300**	**5,200**	**14,700**	**12,900**		9008.97	5361.32
Lead	ug/l	200.7	25	ND	ND	ND	**84.3**	**178.0**	**46.7**	13.6	4.7 B	18.3	ND	ND	22.4	9.1	11.4	ND	29.6	11.0	5.9	7.3	ND	2.5	17.5	11.4	ND	ND		29.61	44.52
Magnesium	ug/l	200.7	35,000	**57,500**	**38,900**	**65,700**	**69,500**	**46,800**	**39,100**	**80,100**	**69,900**	**55,900**	**81,000**	**75,000**	**71,000**	**79,600**	**74,300**	**81,200**	**76,900**	**89,800**	**103,000**	**103,000**	**83,200**	**72,300**	**57,400**	**54,200**	**78,100**	**82,600**		70341.38	20266.78
Manganese	ug/l	200.7	300	**503**	**408**	**472**	122	276	296	**561**	**548**	**551**	**560**	**698**	**635**	**670**	578	**652**	**537**	**596**	**705**	**739**	**619**	**647**	**331**	**646**	**697**	**719**		563.00	151.44
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.043 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		0.17	#DIV/0!
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	7.2 B	8.1 B	7.6 B	6.6 J	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	8 B	10.5	ND	B	8.34	1.23
Potassium	ug/l	200.7	NS	3,890	2,960	4,190	5,890	3,660	5,390	6,930	4,960	4,660	7,300	7,700	6,850	7,880	7,690	7,970	7,010	7,690	7,370	8,670	5,190	6,160	5,830	5,620	5,300	6,360		6289.31	1470.75
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	1.6	ND	21.7 B	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND W	ND	2.8 B	ND	ND		8.51	9.62
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3 B	ND	ND		1.91	#DIV/0!
Sodium	ug/l	200.7	20,000	**141,000**	**88,400**	**168,000**	**265,000**	**164,000**	**161,000**	**203,000**	**199,000**	**177,000**	**230,000**	**198,000**	**161,000**	**175,000**	**181,000**	**162,000**	**228,000**	**194,000**	**231,000**	**189,000**	**154,000**	**111,000**	**97,700**	**78,900**	**115,000**	**114,000**		165006.90	55453.05
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		12.00	#DIV/0!
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		#DIV/0!	#DIV/0!
Zinc	ug/l	200.7	2,000	**13,600**	**7,400**	**10,500**	**16,600**	**18,000**	**12,900**	**13,500**	**11,400**	**12,300**	**12,000**	**13,100**	**12,000**	**13,200**	**8,100**	**11,000**	**9,150**	**14,400**	**15,100**	**13,400**	**11,600**	**10,300**	**5,910 E**	**14,500 E**	**11,900**	**13,800**		11964.48	2706.31
Wet Chemistry																														
Chloride	mg/l	300.0	250	240	160	**310**	**510**	**260**	**250**	**340 B**	**310**	**310**	**360**	**357**	**316**	**297**	**316**	**312**	**470**	**449**	**520**									338.17	94.83
Sulfate	mg/l	300.0	250	**1,400**	**880**	**1,600**	**1,600**	**970**	**1,300**	**1,400 B**	**1,200**	**970**	**1,400**	**1,250**	**1060**	**1510**	**1600**	**1210**	**1550**	**1420**	**1590**									1328.33	244.64

Bold Type *- Exceeds NYCRR Part 703 Groundwater Standard from NYSDEC Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

NA - Not Applicable

ND<5.0 denotes that the constituent was not detected above the reported laboratory method detection limit.

NS - No Groundwater Standard

Table 4
Elderlee, Inc. Oaks Corners Facility - MW-5A

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	06/11/15	06/20/14	07/01/13	04/11/12	07/22/11	05/15/09	05/27/08	06/14/07	06/13/06	06/01/05	12/06/04	06/02/04	12/16/03	07/10/03	02/19/03	06/06/02	12/06/01	06/22/01	12/14/00	06/01/00	12/16/99	12/11/97	12/12/96	09/12/95	Arithmetic Mean	Standard Deviatioin
Static Water Level	feet	NA	NS	2.67	2.60	2.02	2.20	2.72	1.88	3.00	2.23	2.70	3.57	3.80	3.28	3.45	3.14	3.32	2.92	2.71	2.94	3.58	4.01	3.02	4.10	3.60	2.44	2.32	4.00	NA	NA	NA	3.02	0.64
Specific Conductance	umhos/cm	NA	NS	2,546	2,170	2,381	2,690	2,520	2,820	2,550	2,680	2,764	3,200	2,780	2,940	2,790	2,800	2,740	2,730	2,890	3,380	3,610	2,775	2,270	2,720	2,750	2,870	2,470	2,570	NA	NA	NA	2746.38	308.39
Temperature	Degrees C	NA	NS	9.0	9.2	9.5	9.1	10.9	14.20	16.35	16.5	9.3	21.2	12.8	11.2	15.0	15.6	15.8	7.7	12.9	7.2	16.1	6.2	13.9	13.4	16.8	6.6	15.5	8.8	NA	NA	NA	12.34	3.88
pH	S.U.	NA	6.5--8.5	6.99	6.86	7.07	5.47	7.10	6.89	6.65	6.95	6.92	7.87	7.81	7.61	7.02	7.24	7.48	7.06	7.05	6.99	**6.44**	7.06	6.99	6.94	7.08	7.03	6.92	7.38	NA	NA	NA	7.03	0.45
Turbidity	NTU	NA	NS	0.48	1.1	0.7	1.2	1.6	4.1	13.2	5	0.7	80	8	7	16	4	5	16	5	4	3	6	6	7	NA	1	5	2	NA	NA	NA	8.41	15.90
Metals																																		
Aluminum	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<100	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	31.3	44.9	ND	ND	ND	ND	109.0	61.73	41.50
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Arsenic	ug/l	200.7	25	ND	ND	ND	ND	ND	16	ND	ND	4.6 B	19 J	ND<100	ND	ND	ND	ND	ND	ND	10.6	ND	ND	ND	ND	20.8	7.1	ND	ND	20.8	13.8	ND	14.09	6.20
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	ND	12.2 B	13.9 B	13.3 B	14 J	ND<20	ND	ND	ND	ND	ND	ND	ND	ND	ND	12.1	ND	14.6	16.4	ND	ND	ND	ND	15.6	14.01	1.51
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	1.20	NA
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.2	ND	ND	ND	ND	ND	ND	1.20	NA
Calcium	ug/l	200.7	NS	494,000	451,000	435,000	596,000	641,000	655,000	584,000	576,000	586,000	600,000	606,000	625,000	629,000	624,000	641,000	641,000	572,000	545,000	610,000	603,000	567,000	605,000	603,000	589,000	566,000	525,000	547,000	631,000	712,000	588,241.38	58,584.28
Chromium	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.68 J	ND<100	ND	ND	ND	ND	ND	ND	ND	ND	ND	2	ND	1	ND	ND	ND	ND	ND	ND	1.26	0.61
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	1.7 B	1.8 B	1.9 B	1.9 J	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	ND	2.28	NA
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	1	3	ND	ND	ND	ND	ND	1.92	1.39
Iron	ug/l	200.7	300	**868**	**1,740**	**1,600**	**2,330**	**2,490**	**3,200**	**4,010**	**3,940**	**2,440**	**5,300**	**4,800**	**5,610**	**4,380**	**6,380**	**5,140**	**7,080**	**5,430**	**6,280**	**8,260**	**5,960**	**4,590**	**6,020**	**7,480**	**8,540**	**7,090**	**6,040**	**6,860**	**4,160**	**1,900**	4,824.76	2,098.65
Lead	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	5.00	NA
Magnesium	ug/l	200.7	35,000	**35,800**	29,900	21,500	27,800	**39,800**	**39,900**	**42,500**	**33,600**	**37,600**	**40,000**	**47,700**	**36,800**	**45,000**	**42,500**	**44,300**	32,300	**40,900**	32,200	**39,700**	**43,300**	**39,000**	**38,900**	**46,200**	27,600	29,300	31,900	**38,700**	**67,400**	**71,200**	39,911.11	10,360.87
Manganese	ug/l	200.7	300	**409**	440	296	**502**	**600**	**834**	**725**	**613**	**788**	**710**	**684**	**672**	**567**	**651**	**557**	**608**	**637**	**651**	**1,110**	**556**	**553**	**572**	**582**	**884**	**766**	**636**	**726**	**804**	**805**	653.03	157.74
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.037 B	ND	ND	ND<0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0	ND	ND	ND	ND	ND	ND	ND	ND	0.03	NA
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	2.8 B	6.4 B	2.5 B	2.7 J	ND<40	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	5	ND	ND	ND	ND	7	4.11	1.94
Potassium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	1,890	1,880	1,850	2,300	ND<2,000	ND	ND	ND	ND	ND	ND	2,020	2,130	ND	1,580	ND	1,580	1,430	ND	ND	ND	2,580	3,420	2,060.00	561.00
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	**14.6**	**15** B	**17.5** B	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	10	ND	**15**	ND	12.70	4.87
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4	ND	ND	ND	ND	ND	1	2.60	2.26
Sodium	ug/l	200.7	20,000	**57,700**	**53,400**	**52,200**	**58,100**	**67,400**	**68,500**	**68,200**	**66,500**	**61,800**	**71,000**	**78,900**	**72,400**	**72,200**	**84,500**	**69,700**	**82,200**	**109,000**	**242,000**	**248,000**	**55,300**	**46,700**	**44,600**	**39,600**	**33,900**	**37,400**	**38,900**	**48,600**	**85,700**	**80,700**	75,693.10	49,912.97
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Zinc	ug/l	200.7	2,000	312	314	273	363	364	306	366	290	332	300	246	238	208	221	186	215	210	206	223	207	157	165	119	247	173	160	232	211	302	246.41	67.37
Wet Chemistry																																		
Chloride	mg/l	300.0	250	88	86	95	93	110	110	110 B	100	95	100	174	141	134	195	149	177	244	**450**	147.28	87.25											
Sulfate	mg/l	300	250	**1,200**	**1,100**	**960**	**1,400**	**1,400**	**1,300**	**1,300 B**	**1,100**	**1,300**	**1,200**	**1,340**	**1,140**	**1,300**	**1,320**	**1,190**	**1,310**	**1,270**	**1,110**	1,235.56	118.23											

Bold Type *- Exceeds NYCRR Part 703 Groundwater Standard from NYSDEC Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

NA - Not Applicable

ND<5.0 denotes that the constituent was not detected above the reported laboratory method detection limit.

NS - No Groundwater Standard

Table 5
Elderlee, Inc. Oaks Corners Facility - MW-8

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	06/11/15	06/20/14	07/01/13	04/11/12	07/22/11	05/15/09	05/27/08	06/14/07	06/13/06	06/02/05	12/06/04	06/02/04	12/16/03	07/10/03	02/19/03	06/06/02	12/06/01	06/22/01	12/14/00	06/01/00	12/16/99	12/11/97	12/12/96	09/12/95	Arithmetic Mean	Standard Deviation
Static Water Level	feet	NA	NS	6.35	6.36	5.75	5.91	6.36	5.79	5.20	4.44	7.80	5.63	5.5	5.78	5.66	5.30	5.55	5.09	4.99	5.09	NR	6.21	5.24	6.33	5.91	4.55	4.52	NA	NA	NA	NA	5.54	0.59
Specific Conductance	umhos/cm	NA	NS	1,906	1,610	2,910	2,700	1,520	1,320	2,040	3,230	3,315	2,400	2,055	3,010	2,780	2,830	3,210	2,400	2,570	2,570	4,060	3,660	2,570	3,560	4,100	1,478	2,510	NA	NA	NA	NA	2652.56	769.86
Temperature	Degrees C	NA	NS	10.1	10.3	11.7	12.0	12.7	14.50	20.72	17.4	11.3	16.2	13.4	9.7	16.4	15.1	14.5	8.2	13.3	7.7	14.4	6.3	14.5	13.6	21.0	6.4	13.1	NA	NA	NA	NA	12.98	3.82
pH	S.U.	NA	6.5--8.5	6.90	6.84	6.85	6.98	7.26	6.98	6.90	6.90	6.83	8.16	7.74	7.68	7.11	7.33	7.51	7.27	7.10	6.89	**6.58**	6.98	6.85	6.87	6.92	7.10	6.89	NA	NA	NA	NA	7.10	0.35
Turbidity	NTU	NA	NS	0.71	2.14	0.10	3.10	2.74	4.50	9.66	0.35	1.8	123	8.7	1	25	2	8	21	8	0	6	1	3	10	NA	10	7	NA	NA	NA	NA	11.12	25.20
Metals																																		
Aluminum	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<100	ND	ND	ND	ND	ND	ND	ND	ND	ND	113	142	86.2	ND	ND	ND	ND	92.7	108.48	25.10
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Arsenic	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	6.2 B	11 J	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	ND	19.5	ND	ND	10.43	6.58
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	ND	32.5 B	80.4 B	68.3 B	59 J	ND<20	23.2	34.7	31.2	28.3	41.8	37	20.7	22	39.1	30.6	20.3	25.1	33	27.1	25.3	30.1	50	56.4	37.10	16.18
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	B	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND	ND	ND	2.10	NA
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	ND	B	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.67	ND	ND	1	ND	ND	ND	ND	ND	1.6	1.09	0.47
Calcium	ug/l	200.7	NS	399,000	312,000	284,000	305,000	204,000	215,000	485,000	468,000	475,000	470,000	506,000	580,000	559,000	530,000	617,000	430,000	360,00	510,000	643,000	559,000	483,000	489,000	6340,00	562,000	477,000	511,000	359,000	296,000	418,000	449,851.85	117,751.60
Chromium	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	1.3 B	B	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	1.9	ND	ND	ND	ND	ND	ND	ND	ND	1.60	NA
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	1.2 B	1.3 B	2.7 B	2.2 J	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	3.2	ND	ND	ND	ND	ND	1.1	1.95	0.88
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Iron	ug/l	200.7	300	**3,380**	**2,650**	**1,780**	**1,720**	**1,090**	**962**	**5,850**	**5,570**	**6,330**	**5,600**	**8,150**	**5,460**	**4,960**	**6,620**	**6,110**	**6,090**	**5,350**	**6,230**	**10,100**	**12,500**	**9,660**	**9,200**	**11,400**	**7,100**	**8,500**	**9,400**	**5,660**	**4,530**	**516**	5,947.17	3,129.36
Lead	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Magnesium	ug/l	200.7	35,000	24,500	**23,000**	**36,400**	30,800	22,300	24,300	29,800	**35,100**	27,800	31,000	32,300	**38,500**	**44,100**	**45,400**	**36,300**	**37,600**	20,200	26,000	**44,900**	**66,200**	**44,300**	**63,600**	**60,400**	**11,600**	**48,700**	**53,000**	**53,100**	**33,800**	**36,800**	37,303.45	13,392.76
Manganese	ug/l	200.7	300	**537**	**637**	**321**	**352**	285	**353**	**452**	**417**	**496**	**950**	**892**	**1070**	**1030**	**651**	**566**	**521**	**376**	**624**	**768**	**846**	**709**	**753**	**917**	**1000**	**1030**	**738**	**437**	**538**	**1140**	669.17	254.75
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.054	ND	ND	ND<0.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	0.04	NA
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	5.1 B	6.4 B	7.1 B	5.5 J	ND<40	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.9	ND	6.4	6.5	ND	ND	ND	ND	8.3	6.28	1.12
Potassium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	1,280	2,040	2,440	3,700	2100	3330	2340	3730	3110	4030	ND	3590	6220	6300	5630	4560	6090	1930	4670	6010	6620	4960	3120	3,990.91	1,640.29
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	ND	ND	17.6 B	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.5	ND	ND	12.8	ND	7.74	2.5	9.23	6.00
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	4.2	ND	ND	ND	ND	ND	0.71	2.46	2.47
Sodium	ug/l	200.7	20,000	**36,100**	**25,500**	**295,000**	**252,000**	**115,000**	**39,400**	**69,400**	**304,000**	**240,000**	**61,000**	**62,500**	**115,000**	**97,800**	**148,000**	**200,000**	**112,000**	**111,000**	**130,000**	**237,000**	**174,000**	**123,000**	**246,000**	**224,000**	**131,000**	**50,400**	**191,000**	**243,000**	**152,000**	**121,000**	148,486.21	80,627.89
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	ND	7.1 B	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	7.10	NA
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA
Zinc	ug/l	200.7	2,000	1,460	1,190	1,550	1,870	1,930	**2,710**	1,260	1,920	**2,490**	2,000	762	576	673	436	185	437	640	188	233	381	288	465	529	686	1,790	485	548	752	**6,490**	1,204.28	1,251.17
Wet Chemistry																																		
Chloride	mg/l	300	250	55	26	**550**	450	160	85	150 B	**440**	**430**	91	**263**	190	193	**255**	**284**	186	141	80.4												223.86	153.00
Sulfate	mg/l	300	250	**840**	**700**	**470**	**530**	**330**	**320**	**900 B**	**810**	**970**	**860**	**1,020**	**1,100**	**1,200**	**1,230**	**1,230**	**1,060**	**1,000**	**834**												855.78	287.82

Bold Type *- Exceeds NYCRR Part 703 Groundwater Standard from NYSDEC Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

NA - Not Applicable

ND<5.0 denotes that the constituent was not detected above the reported laboratory method detection limit.

NS - No Groundwater Standard

Table 6
Elderlee, Inc. Oaks Corners Facility - MW-9R

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	06/11/15	06/20/14	07/01/13	Arithmetic Mean	Standard Deviation
Static Water Level	feet	NA	NS	10.20	10.23	9.60	9.73	10.22	9.65	10.60	9.80	10.00	0.36
Specific Conductance	umhos/cm	NA	NS	2,042	2,620	913	1,620	1,430	2,030	1540	1410.00	1700.63	518.33
Temperature	Degrees C	NA	NS	9.7	10.5	10.5	10.6	11.1	13.20	15.72	13.14	11.81	2.03
pH	S.U.	NA	6.5--8.5	7.10	6.88	7.04	6.33	7.27	7.10	6.62	7.13	6.93	0.31
Turbidity	NTU	NA	NS	0.60	2.69	1.60	1.22	1.39	2.30	4.54	1.54	1.99	1.21
Metals													
Aluminum	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	9.7 B	ND	NA	NA
Arsenic	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	ND	40.8 B	41.6 B	41.20	0.57
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Calcium	ug/l	200.7	NS	165,000	162,000	122,000	191,000	146,000	149,000	159,000	168,000	157750.00	19,912.31
Chromium	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	1.10 B	NA	NA
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	0.95 B	NA	NA
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Iron	ug/l	200.7	300	120	120	ND	168	220	222	158 B	**424**	204.57	105.28
Lead	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Magnesium	ug/l	200.7	35,000	**35,100**	**39,000**	33,400	**48,000**	**37,200**	**36,100**	**40,700**	**4,500**	34250.00	12,827.76
Manganese	ug/l	200.7	300	49	88	167	110	125	76	101	**302**	127.26	78.72
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.043 B	NA	NA
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	1.0 B	3.9 B	2.45	2.05
Potassium	ug/l	200.7	NS	3,110	4,530	3,170	4,130	3,610	3,270	3,260	2,810	3540.00	599.19
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	ND	ND	**15.1** B	NA	NA
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Sodium	ug/l	200.7	20,000	**195,000**	**303,000**	**32,500**	**76,800**	**134,000**	**215,000**	**174,000**	**63,700**	149250.00	90,315.86
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Zinc	ug/l	200.7	2,000	177	144	276	398	357	149	246	419	270.75	110.79
Wet Chemistry													
Chloride	mg/l	300.0	250	**430**	**630**	54	250	180	**380**	250 B	83 B	282.13	191.48
Sulfate	mg/l	300	250	83	88	130	160	210	61	170 B	**250**	144.00	65.97

Bold Type *- Exceeds NYCRR Part 703 Groundwater Standard from NYSDEC Technical and Operational Guidance Series (1.1.1) - Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations.*

NA - Not Applicable

ND<5.0 denotes that the constituent was not detected above the reported laboratory method detection limit.

NS - No Groundwater Standard

Table 7
Elderlee, Inc. Oaks Corners Facility - MW-10 and MW-10R

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	06/11/15	06/20/14	07/01/13	07/22/11	05/15/09	05/27/08	06/14/07	06/13/06	06/01/05	12/06/04	06/02/04	12/16/03	07/10/03	02/19/03	06/06/02	12/06/01	06/22/01	12/14/00	06/01/00	12/16/99	12/11/97	12/12/96	Arithmetic Mean	Standard Deviation
Static Water Level	feet	NA	NS	6.84	6.87	6.26	6.39	6.90	6.26	7.30	6.50	5.49	4.3	4.39	4.60	4.19	4.42	3.95	3.85	3.97	4.70		4.26	5.20	4.86	3.40	2.32	NA	NA	NA	5.10	1.33
Specific Conductance	umhos/cm	NA	NS	1,539	1,390	1,165	1,170	1,620	2,100	1,920	1,210	2,790	1,087	2,690	3,020	2,950	2,560	2,870	2,710	3,070	3,320	Could Not Locate	2,600	3,390	3,110	1,838	2,450	NA	NA	NA	2285.61	767.85
Temperature	Degrees C	NA	NS	10.4	10.7	10.7	11.3	12.5	14.5	15.1	17.5	19.8	14.6	10.5	16.7	13.9	16.2	9.6	12.6	9.9	14.6		13.5	13.9	17.8	5.8	12.9	NA	NA	NA	13.26	3.20
pH	S.U.	NA	6.5--8.5	7.06	6.91	7.01	6.84	7.22	7.05	6.61	7.09	8.01	7.74	7.61	7.09	7.30	7.45	7.19	7.07	6.91	6.57		6.91	6.87	6.97	6.86	6.94	NA	NA	NA	7.10	0.34
Turbidity	NTU	NA	NS	1.14	2.8	2.8	2.5	1.5	1.3	32.1	38	101	7.96	13	66	8	10	1	38	0	7		3	6	NA	8	7	NA	NA	NA	16.25	25.14
Metals																																
Aluminum	ug/l	200.7	NS	ND	199	ND	ND	ND	ND	ND	ND	ND	ND<100	ND	ND	ND	ND	ND	ND	ND	ND	NA	10.7	ND	29.8	70.7	ND	ND	132	108	91.70	69.62
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<60	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Arsenic	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	4.6 B	13 J	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	10.9	11.6	ND	ND	ND	22	ND	14.43	5.26
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	ND	91.40 B	101 B	17 J	64	ND	23.6	ND	ND	ND	33.8	25.2	36.4	NA	28.3	22.5	30.7	128	25.2	20.9	40.8	31.3	41.27	30.70
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	1.6	ND	ND	ND	ND	ND	1.60	NA
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	1	ND	ND	ND	ND	1.00	NA
Calcium	ug/l	200.7	NS	219,000	109,000	102,000	128,000	137,000	131,000	154,000	127,000	520,000	338,000	521,000	465,000	574,000	492,000	598,000	406,000	514,000	581,000	NA	399,000	565,000	446,000	170,000	426,000	345,000	351,000	289,000	350269.23	173668.09
Chromium	ug/l	200.7	50	ND	ND	**83.4**	ND	ND	12.20	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	11.6	NA	1.9	ND	ND	ND	ND	ND	ND	ND	27.28	37.71
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	0.76 B	1.2 B	1.9 J	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	NA	3.2	ND	3.9	ND	ND	ND	ND	ND	2.19	1.33
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<20	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Iron	ug/l	200.7	300	**963**	**446**	**515**	**410**	**445**	**736**	**1940**	**2770**	**7,200**	**1,980**	**7,290**	**6,530**	**9,820**	**7,310**	**9,160**	**12,300**	**10,800**	**13,000**	NA	**8,190**	**9,590**	**9,160**	**8,020**	**7,830**	**6,070**	**6,780**	**5,310**	5944.81	3983.54
Lead	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	NA	2.2	ND	ND	ND	ND	ND	ND	ND	2.20	NA
Magnesium	ug/l	200.7	35,000	**40,300**	25,000	25,300	27,200	26,700	23,600	29,300	25,800	27,000	19,500	34,800	29,200	**45,800**	**48,100**	**36,500**	**42,000**	**46,200**	**47,500**	NA	**42,300**	**36,100**	**38,700**	19,700	**39,700**	**39,300**	**44,500**	**37,100**	34507.69	8920.40
Manganese	ug/l	200.7	300	**1,810**	**1,150**	**990**	**1,380**	**1,060**	**1,010**	**848**	**894.00**	**860**	**904**	**702**	**689**	**763**	**580**	**595**	**778**	**686**	**1,170**	NA	**906**	**871**	**622**	**880**	**496**	**610**	**592**	**536**	860.85	290.93
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.04 B	ND	ND<0.3	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	0.04	ND
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	2.10 B	4.70 B	7.2 J	ND<40	ND	ND	ND	ND	ND	ND	ND	ND	NA	6.9	ND	8.2	ND	ND	ND	ND	ND	5.82	2.44
Potassium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	1,070	1,020	3,300	2,200	ND	2,340	3,320	2,540	3,950	4,090	5,360	3,960	NA	3,500	4,580	4,460	1,190	3,220	3,640	4,500	4,260	3289.47	1259.72
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	ND	ND	**17.9** B	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	4	ND	ND	8.9	ND	10.9	7.93	3.55
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	3.3	ND	ND	ND	ND	ND	3.30	NA
Sodium	ug/l	200.7	20,000	**61,900**	**143,000**	**105,000**	**84,000**	**187,000**	**283,000**	**237,000**	**117,000**	**81,000**	**92,600**	**81,000**	**206,000**	**124,000**	**81,600**	**130,000**	**171,000**	**205,000**	**184,000**	NA	**183,000**	**194,000**	**135,000**	**176,000**	**81,100**	**116,000**	**172,000**	**154,000**	145584.62	55878.17
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	6.20	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	6.20	NA
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	NA	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA
Zinc	ug/l	200.7	2,000	824	658	430	566	528	605	727	416	1,000	1,700	738	632	861	743	857	760	925	974	NA	667	1,010	799	185	622	486	448	430	727.00	286.31
Wet Chemistry																																
Chloride	mg/l	300.0	250	120	220	160	130	**310**	**410**	**390 B**	130	230	213	140	**359**	**256**	202	230	**329**	**415**											239.31	101.69
Sulfate	mg/l	300	250	**430**	110	62	83	99	120	110 B	88	**870**	**702**	**1,000**	**928**	**1,340**	**1,030**	**1,270**	**1,010**	**1,170**											613.06	489.37

Table 8
Elderlee, Inc. Oaks Corners Facility - MW-11

Field Parameters	UNITS	METHOD	6NYCRR Part703 MCL/std.	05/13/20	05/10/19	05/02/18	05/01/17	05/11/16	08/06/15	06/20/14	07/01/13	04/11/12	07/22/11	05/15/09	05/27/08	06/14/07	06/13/06	06/01/05	12/06/04	06/01/04	12/16/03	07/10/03	02/19/03	06/06/02	12/06/01	06/22/01	12/14/00	06/01/00	12/16/99	12/11/97	12/12/96	Arithmetic Mean	Standard Deviation
Static Water Level	feet	NA	NS	1.13	1.04	0.73	1.06	1.57	1.72	2.50	1.02	1.40	2.02	1.8	2.09	1.85	1.55	1.73	1.34	0.94	1.15	1.91	2.31	1.11	2.43	Damaged Well Not Sampled	Damaged Well Not Sampled	0.72	2.35	NA	NA	1.57	0.56
Specific Conductance	umhos/cm	NA	NS	2,605	2,670	2,811	2,450	2,420	1,940	2,680	2,520	3,025	2,990	3,076	3,790	3,520	3,880	41,000	3,870	4,660	4,300	5,190	4195	3,190	4,200			3,990	1930.00	NA	NA	4870.92	7743.42
Temperature	Degrees C	NA	NS	10.1	10.4	11.3	10.9	11.9	18.4	20.19	18.2	8.8	20.8	13.5	10.8	16.1	15.1	14.1	7.7	14.7	8.0	16.6	5.6	14.1	12.9			12.6	5.50	NA	NA	12.84	4.24
pH	S.U.	NA	6.5--8.5	7.05	6.73	6.96	7.02	7.10	7.65	6.75	6.99	7.01	8.46	7.75	7.64	7.03	7.32	7.37	7.16	7.04	6.91	6.57	7.12	6.96	6.97			7.01	7.48	NA	NA	7.17	0.40
Turbidity	NTU	NA	NS	9.7	12.4	9.8	26.9	11.0	22.0	12.0	19.9	0.94	69	8.5	14	16	52	10	94	35	4	8	9.72	9	8			9	5.80	NA	NA	20.68	22.28
Metals																																	
Aluminum	ug/l	200.7	NS	145	115	205	278	ND	1050	ND	199 B	ND	81 J	ND<100	192	ND	ND	ND			169	209	118	146	335	NA	NA	133	NA	132	NA	233.80	235.12
Antimony	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<60	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Arsenic	ug/l	200.7	25.0	14.1	18.7	13.6	**163**	22.3	**26.7**	5.1 B	13.4 B	9.6 B	22	10	11	ND	ND	13	ND	ND	ND	ND	ND	5.3	ND	NA	NA	NA	NA	19	NA	24.43	38.84
Barium	ug/l	200.7	1,000	ND	ND	ND	ND	ND	131	73.2 B	76.3 B	67.0 B	51 J	71	71.4	82.3	102	97.5	121	129	113	151	89.6	71.7	95.4	NA	NA	123	45.3	11.3	110	90.80	33.56
Beryllium	ug/l	200.7	3	ND	ND	ND	ND	ND	ND	ND	ND	B	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Cadmium	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	ND	ND	B	ND	ND<5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Calcium	ug/l	200.7	NS	339,000	364,000	415,000	385,000	450,000	422,000	487,000	375,000	430,000	370,000	316,000	361,000	353,000	340,000	380,000	429,000	356,000	389,000	443,000	353,000	322,000	383,000	NA	NA	500,000	210,000	265,000	286,000	373961.54	65192.93
Chromium	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	1.6 B	ND	0.98 J	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NA	NA	NA	NA	NA	NA	1.93	1.15
Cobalt	ug/l	200.7	5	ND	ND	ND	ND	ND	ND	1.4 B	1.8 B	1.4 B	1.2 J	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	1.45	0.25
Copper	ug/l	200.7	200	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Iron	ug/l	200.7	300	**5,740**	**6,190**	**7,530**	**7,550**	**9,510**	**12,600**	**9,180**	**8,780**	**8,760**	**9,600**	**8,930**	**6,770**	**4,580**	**8,810**	**8,760**	**10,700**	**8,010**	**7,870**	**9,890**	**9,180**	**6,600**	**6,700**	NA	NA	**10,100**	**2,450**	**3,840**	**6,070**	7873.08	2231.05
Lead	ug/l	200.7	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	7.2	ND	ND	ND	NA	NA	NA	NA	NA	NA	7.20	NA
Magnesium	ug/l	200.7	35,000	**57,700**	**60,300**	**53,800**	**48,800**	**57,100**	**51,400**	**68,300**	**53,100**	**72,100**	**74,000**	**75,000**	**77,900**	**80,100**	**81,200**	**99,800**	**91,400**	**85,200**	**88,900**	**104,000**	**92,800**	**83,900**	**99,200**	NA	NA	**93,700**	**59,500**	**60,200**	**64,900**	74396.15	16781.95
Manganese	ug/l	200.7	300	**1,140**	**1,110**	**1,100**	**1,110**	**1,210**	**1,810**	**1,680**	**1,570**	**1,600**	**1,300**	**1,260**	**1,250**	**1,290**	**1,500**	**1,530**	**1,890**	**1,920**	**2,060**	**1,630**	**1,630**	**1,850**	**2,100**	NA	NA	**2,110**	**1,600**	**2,560**	**2,080**	1611.15	385.00
Mercury	ug/l	200.7	0.7	ND	ND	ND	ND	ND	ND	ND	0.041 B	ND	ND	ND<0.3	ND	ND	0.02	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	0.03	0.02
Nickel	ug/l	200.7	100	ND	ND	ND	ND	ND	ND	2.6 B	6.5 B	2.7 B	2.9 J	ND<40	ND	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	NA	NA	NA	NA	NA	NA	3.56	1.65
Potassium	ug/l	200.7	NS	4,210	3,860	3,480	4,010	3,990	6,530	5,200	5,310	5,190	6,700	6,100	6,300	6,670	7,440	7,770	8,870	8,050	8,200	9,730	7,120	6,130	7,020	NA	NA	8,920	3,680	3,750	4,470	6103.85	1843.57
Selenium	ug/l	200.7	10	ND	ND	ND	ND	ND	**18**	**13 B**	21.3 B	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	3	ND	ND	NA	NA	NA	6.9	NA	13.7	12.65	6.79
Silver	ug/l	200.7	50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Sodium	ug/l	200.7	20,000	**175,000**	**158,000**	**182,000**	**134,000**	**126,000**	**130,000**	**157,000**	**168,000**	**215,000**	**190,000**	**285,000**	**334,000**	**337,000**	**430,000**	**413,000**	**408,000**	**542,000**	**484,000**	**544,000**	**403,000**	**374,000**	**381,000**	NA	NA	**269,000**	**237,000**	**297,000**	**320,000**	295884.62	129186.17
Thallium	ug/l	200.7	0.5*	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Vanadium	ug/l	200.7	NS	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND<50	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NA	NA	NA	NA	NA	NA	ND	NA
Zinc	ug/l	200.7	2,000	ND	ND	70.1	94.5	ND	229	46.8 B	82.2	48.0 B	100	46	37.3	88.8	73	53.4	104	103	102	185	164	234	546	NA	NA	422	418	560	351	186.82	165.09
Wet Chemistry																																	
Chloride	mg/l	300.0	250	**290**	**290**	**320**	230	200	**270**	**230 B**	**250**	**350**	**280**	**579**	**534**	**560**	725	**710**	**729**	**1180**	**1100**						490.39	299.18					
Sulfate	mg/l	300.0	250	**770**	**870**	**1,000**	**780**	**1,000**	**980**	**1,000 B**	**480**	**1,100**	**800**	**759**	**739**	**916**	**749**	**805**	**909**	**708**	**746**							839.50	147.06				

APPENDIX C

GROUNDWATER SAMPLING LOGS

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 56 oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW-4A
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	2E+06

Well information:

Depth of Well *	12.00	ft.	* Measurements taken from
Depth to Water *	3.51	ft.	x — Top of Well Casing
Length of Water Column	8.49	ft.	Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1305

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0	3.60	—	—	—	—	—	—	350
5	4.84	12.4	7.05	278.0	30.1	8.09	52.3	350
10	5.67	12.6	6.95	690	12.1	7.81	48.9	350
15	5.84	12.5	6.93	1117	3.9	6.55	30	350
20	5.76	12.5	6.87	1670	8.2	5.29	18	350
25	5.77	12.6	6.85	2076	11.7	4.50	9.9	350
30	5.76	12.5	6.84	2383	10.1	3.60	7.4	350
35	5.77	12.5	6.84	2431	8.7	2.92	5.8	350
40	5.77	12.5	6.84	2448	7.9	1.93	3.0	350
45	5.77	12.5	6.86	2461	8.1	1.21	2.9	350

End Purge Time: 1355

Water sample:

Time collected: 1355

Total volume of purged water removed: 15.75 Liters

Physical appearance at start		Physical appearance at sampling	
Color	LIGHT TAN/CLEAR	Color	COLORLESS
Odor	NONE	Odor	NONE
Sheen/Free Product	NONE	Sheen/Free Product	NONE

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 50oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW-54
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	2E+06

Well information:

Depth of Well * 11.30 ft.
Depth to Water * 2.60 ft.
Length of Water Column 8.70 ft.

* Measurements taken from

x	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1230

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0	2.67	—	—	—	—	—	—	300
5	3.16	9.0	6.98	2677	54.8	0.31	3.26	300
10	3.20	9.1	6.98	2664	28.6	0.37	2.47	300
15	3.21	9.0	6.99	2633	13.5	0.64	2.25	300
20	3.21	9.0	6.98	2556	5.9	0.70	0.67	300
25	3.21	9.1	6.99	2551	3.3	0.69	0.79	300
30	3.21	9.0	7.00	2546	1.1	0.74	0.48	300

End Purge Time: 1300

Water sample:

Time collected: 1300

Total volume of purged water removed: 9.0 LITERS

Physical appearance at start
Color: COLORLESS
Odor: NONE
Sheen/Free Product: NONE

Physical appearance at sampling
Color: COLORLESS
Odor: NONE
Sheen/Free Product: NONE

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 45 oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW - 8
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	~~2E+08~~

Well information:

Depth of Well *	13.90 ft.	* Measurements taken from	
Depth to Water *	6.35 ft.	x	Top of Well Casing
Length of Water Column	7.55 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 1040

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
~~0~~	6.35	—	—	—	—	—	—	—
5	6.37	10.1	7.00	1420	-21.7	0.54	2.88	300
10	6.39	10.1	7.00	1420	-21.7	0.54	2.51	300
15	6.38	10.1	6.91	1925	-39.4	0.39	2.23	300
20	6.38	10.0	6.91	1933	-41.2	0.34	1.37	300
25	6.38	10.0	6.90	1904	-43.2	0.41	1.06	300
30	6.38	10.1	6.89	1914	-43.9	0.49	0.69	300
35	6.38	10.1	6.90	1899	-44.5	0.52	0.73	300
40	6.38	10.1	6.90	1906	-44.7	0.55	0.71	300

End Purge Time: 1120

Water sample:

Time collected: 1120

Total volume of purged water removed: 12.0 LITERS

Physical appearance at start

Color: COLORLESS
Odor: NONE
Sheen/Free Product: NONE

Physical appearance at sampling

Color: COLORLESS
Odor: NONE
Sheen/Free Product: NONE

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 40 oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW 9R
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	~~2E+06~~ 2019083

Well information:

Depth of Well * 20.00 ft.
Depth to Water * 10.20 ft.
Length of Water Column 9.80 ft.

* Measurements taken from

x	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 0855

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0	10.20	—	—	—	—	—	—	—
5	10.21	9.7	7.11	2000	100.0	1.86	2.06	250
10	10.21	9.6	7.11	2019	89.2	1.80	1.14	250
15	10.21	9.5	7.11	2035	84.3	1.73	0.82	250
20	10.21	9.8	7.11	2020	72.0	1.77	0.90	250
25	10.21	9.6	7.10	2040	66.3	1.82	1.07	250
30	10.21	9.7	7.11	2046	64.1	1.88	0.84	250
35	10.21	9.7	7.10	2042	63.9	1.89	0.60	250

End Purge Time: 0930

Water sample:

Time collected: 0930

Total volume of purged water removed: 8.75 LITERS

Physical appearance at start
Color COLORLESS
Odor NONE
Sheen/Free Product NONE

Physical appearance at sampling
Color COLORLESS
Odor NONE
Sheen/Free Product NONE

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 45 oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW-10R
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	~~2E+06~~

Well information:

Depth of Well *	15.00 ft.	* Measurements taken from	
Depth to Water *	6.84 ft.	x	Top of Well Casing
Length of Water Column	8.16 ft.		Top of Protective Casing
			(Other, Specify)

Start Purge Time: 0950

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0	6.84	—	—	—	—	—	—	—
5	6.87	10.3	7.15	999	27.2	0.06	~~3~~.47	350
10	6.87	10.4	7.05	1541	-9.4	0.18	2.63	350
15	6.87	10.4	7.06	1542	-22.6	0.14	1.94	350
20	6.87	10.4	7.06	1561	-25.6	0.12	1.23	350
25	6.87	10.4	7.06	1546	-25.9	0.17	1.15	350
30	6.87	10.4	7.06	1539	-26.2	0.17	1.14	350

End Purge Time: 1020

Water sample:

Time collected: 1020

Total volume of purged water removed: 10.5 LITRES

Physical appearance at start		Physical appearance at sampling	
Color	CLEAR LESS	Color	CLEAR LESS
Odor	NONE	Odor	NONE
Sheen/Free Product	NONE	Sheen/Free Product	NONE

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

NEU-VELLE, LLC — Low Flow Ground Water Sampling Log

Date	5/ 13 /2020	Personnel	Jim Moore	Weather	Sunny, 50 oF
Site Name	Elderlee, Inc	Evacuation Method	Peristaltic Pump	Well #	MW-11
Site Location	Oaks Corners, NY	Sampling Method	Peristaltic Pump	Project #	2E+06

Well information:

Depth of Well * 12.30 ft.
Depth to Water * 1.13 ft.
Length of Water Column 11.17 ft.

* Measurements taken from

x	Top of Well Casing
	Top of Protective Casing
	(Other, Specify)

Start Purge Time: 1125

Elapsed Time (minutes)	Depth To Water (feet	Temperature (oC)	pH	Conductivity ms/cm	Oxidation Reduction Potential	Dissolved Oxygen (mg/l)	Turbidity (NTU)	Flow Rate (ml/min).
0	1.13	—	—	—	—	—	—	—
5	2.15	9.9	7.15	1982	-75.4	4.59	105.5	330
10	2.25	9.8	7.10	2356	-73.7	4.41	48.3	330
15	2.28	9.9	7.07	2485	-78.5	4.08	28.5	330
20	2.28	9.9	7.09	2557	-80.1	4.13	19.6	330
25	2.29	10.0	7.07	2567	-82.2	3.83	14.2	330
30	3.30	10.0	7.08	2581	-82.6	3.81	12.2	330
35	3.30	10.0	7.06	2598	-83.7	3.51	10.1	330
40	3.29	10.1	7.05	2605	-84.1	3.47	9.7	330

End Purge Time: 1205

Water sample:

Time collected: 1205

Total volume of purged water removed: 13.2 Liters

Physical appearance at start
Color: Brown/light orange
Odor: None
Sheen/Free Product: None

Physical appearance at sampling
Color: Colorless
Odor: None
Sheen/Free Product: None

Analytical Parameters:

Container Size	Container Type	# Collected	Field Filtered	Preservative	Container pH
250ml	Poly	1	N	NONE	-----
250ml	Poly	1	N	HNO3	<2

APPENDIX D

LABORATORY ANALYTICAL DATA

PARADIGM

PARADIGM
ENVIRONMENTAL SERVICES, INC

Analytical Report For

Neu-Velle

For Lab Project ID

202044

Referencing

Elderlee - Annual 2020 GW Sampling

Prepared

Wednesday, May 20, 2020

Any noncompliant QC parameters or other notes impacting data interpretation are flagged or documented on the final report or are noted below.

Certifies that this report has been approved by the Technical Director or Designee

179 Lake Avenue • Rochester, NY 14608 • (585) 647-2530 • Fax (585) 647-3311 • ELAP ID# 10958

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-9R		
Lab Sample ID:	202044-01	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**430**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:05

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		5/15/2020 13:51
Antimony	< 0.0600	mg/L		5/15/2020 13:51
Arsenic	< 0.0100	mg/L		5/15/2020 13:51
Barium	< 0.100	mg/L		5/15/2020 13:51
Beryllium	< 0.00500	mg/L		5/15/2020 13:51
Cadmium	< 0.00500	mg/L		5/15/2020 13:51
Calcium	**165**	mg/L		5/15/2020 13:51
Chromium	< 0.0100	mg/L		5/15/2020 13:51
Cobalt	< 0.0500	mg/L		5/15/2020 13:51
Copper	< 0.0400	mg/L		5/15/2020 13:51
Iron	< 0.100	mg/L		5/18/2020 16:02
Lead	< 0.0100	mg/L		5/15/2020 13:51
Magnesium	**35.1**	mg/L		5/15/2020 13:51
Manganese	**0.0492**	mg/L		5/15/2020 13:51
Nickel	< 0.0400	mg/L		5/15/2020 13:51
Potassium	**3.11**	mg/L		5/15/2020 13:51

Sample Identifier:	MW-9R		
Lab Sample ID:	202044-01	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Selenium	< 0.0200	mg/L		5/15/2020 13:51
Silver	< 0.0100	mg/L		5/15/2020 13:51
Sodium	**195**	mg/L		5/15/2020 13:51
Thallium	< 0.0250	mg/L		5/15/2020 13:51
Vanadium	< 0.0250	mg/L		5/15/2020 13:51
Zinc	**0.177**	mg/L		5/15/2020 13:51

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**83**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-10R		
Lab Sample ID:	202044-02	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**120**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:07

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		5/15/2020 13:56
Antimony	< 0.0600	mg/L		5/15/2020 13:56
Arsenic	< 0.0100	mg/L		5/15/2020 13:56
Barium	< 0.100	mg/L		5/15/2020 13:56
Beryllium	< 0.00500	mg/L		5/15/2020 13:56
Cadmium	< 0.00500	mg/L		5/15/2020 13:56
Calcium	**219**	mg/L		5/15/2020 13:56
Chromium	< 0.0100	mg/L		5/15/2020 13:56
Cobalt	< 0.0500	mg/L		5/15/2020 13:56
Copper	< 0.0400	mg/L		5/15/2020 13:56
Iron	**0.963**	mg/L		5/15/2020 13:56
Lead	< 0.0100	mg/L		5/15/2020 13:56
Magnesium	**40.3**	mg/L		5/15/2020 13:56
Manganese	**1.81**	mg/L		5/15/2020 13:56
Nickel	< 0.0400	mg/L		5/15/2020 13:56
Potassium	< 2.50	mg/L		5/15/2020 13:56

Sample Identifier: MW-10R
Lab Sample ID: 202044-02 **Date Sampled:** 5/13/2020
Matrix: Groundwater **Date Received:** 5/13/2020

Selenium	< 0.0200	mg/L	5/15/2020	13:56
Silver	< 0.0100	mg/L	5/15/2020	13:56
Sodium	**61.9**	mg/L	5/15/2020	13:56
Thallium	< 0.0250	mg/L	5/15/2020	13:56
Vanadium	< 0.0250	mg/L	5/15/2020	13:56
Zinc	**0.824**	mg/L	5/15/2020	13:56

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**430**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-8		
Lab Sample ID:	202044-03	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**55**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:09

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		5/15/2020 14:00
Antimony	< 0.0600	mg/L		5/15/2020 14:00
Arsenic	< 0.0100	mg/L		5/15/2020 14:00
Barium	< 0.100	mg/L		5/15/2020 14:00
Beryllium	< 0.00500	mg/L		5/15/2020 14:00
Cadmium	< 0.00500	mg/L		5/15/2020 14:00
Calcium	**399**	mg/L		5/15/2020 14:00
Chromium	< 0.0100	mg/L		5/15/2020 14:00
Cobalt	< 0.0500	mg/L		5/15/2020 14:00
Copper	< 0.0400	mg/L		5/15/2020 14:00
Iron	**3.38**	mg/L		5/15/2020 14:00
Lead	< 0.0100	mg/L		5/15/2020 14:00
Magnesium	**24.5**	mg/L		5/15/2020 14:00
Manganese	**0.537**	mg/L		5/15/2020 14:00
Nickel	< 0.0400	mg/L		5/15/2020 14:00
Potassium	< 2.50	mg/L		5/15/2020 14:00

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-8		
Lab Sample ID:	202044-03	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Selenium	< 0.0200	mg/L		5/15/2020 14:00
Silver	< 0.0100	mg/L		5/15/2020 14:00
Sodium	**36.1**	mg/L		5/15/2020 14:00
Thallium	< 0.0250	mg/L		5/15/2020 14:00
Vanadium	< 0.0250	mg/L		5/15/2020 14:00
Zinc	**1.46**	mg/L		5/15/2020 14:00

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**840**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-11		
Lab Sample ID:	202044-04	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**290**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:11

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	**0.145**	mg/L		5/15/2020 14:05
Antimony	< 0.0600	mg/L		5/15/2020 14:05
Arsenic	**0.0141**	mg/L		5/15/2020 14:05
Barium	< 0.100	mg/L		5/15/2020 14:05
Beryllium	< 0.00500	mg/L		5/15/2020 14:05
Cadmium	< 0.00500	mg/L		5/15/2020 14:05
Calcium	**339**	mg/L		5/15/2020 14:05
Chromium	< 0.0100	mg/L		5/15/2020 14:05
Cobalt	< 0.0500	mg/L		5/15/2020 14:05
Copper	< 0.0400	mg/L		5/15/2020 14:05
Iron	**5.74**	mg/L		5/15/2020 14:05
Lead	< 0.0100	mg/L		5/15/2020 14:05
Magnesium	**55.7**	mg/L		5/15/2020 14:05
Manganese	**1.14**	mg/L		5/15/2020 14:05
Nickel	< 0.0400	mg/L		5/15/2020 14:05
Potassium	**4.21**	mg/L		5/15/2020 14:05

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-11		
Lab Sample ID:	202044-04	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Selenium	< 0.0200	mg/L		5/15/2020 14:05
Silver	< 0.0100	mg/L		5/15/2020 14:05
Sodium	**175**	mg/L		5/15/2020 14:05
Thallium	< 0.0250	mg/L		5/15/2020 14:05
Vanadium	< 0.0250	mg/L		5/15/2020 14:05
Zinc	< 0.0600	mg/L		5/15/2020 14:05

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**770**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-5A		
Lab Sample ID:	202044-05	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**88**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:17

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		5/15/2020 14:09
Antimony	< 0.0600	mg/L		5/15/2020 14:09
Arsenic	< 0.0100	mg/L		5/15/2020 14:09
Barium	< 0.100	mg/L		5/15/2020 14:09
Beryllium	< 0.00500	mg/L		5/15/2020 14:09
Cadmium	< 0.00500	mg/L		5/15/2020 14:09
Calcium	**494**	mg/L		5/15/2020 14:09
Chromium	< 0.0100	mg/L		5/15/2020 14:09
Cobalt	< 0.0500	mg/L		5/15/2020 14:09
Copper	< 0.0400	mg/L		5/15/2020 14:09
Iron	**0.868**	mg/L		5/15/2020 14:09
Lead	< 0.0100	mg/L		5/15/2020 14:09
Magnesium	**35.8**	mg/L		5/15/2020 14:09
Manganese	**0.409**	mg/L		5/15/2020 14:09
Nickel	< 0.0400	mg/L		5/15/2020 14:09
Potassium	< 2.50	mg/L		5/15/2020 14:09

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-5A		
Lab Sample ID:	202044-05	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Selenium	< 0.0200	mg/L	5/15/2020	14:09
Silver	< 0.0100	mg/L	5/15/2020	14:09
Sodium	**57.7**	mg/L	5/15/2020	14:09
Thallium	< 0.0250	mg/L	5/15/2020	14:09
Vanadium	< 0.0250	mg/L	5/15/2020	14:09
Zinc	**0.312**	mg/L	5/15/2020	14:09

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**1200**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-4A		
Lab Sample ID:	202044-06	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Chloride

Analyte	Result	Units	Qualifier	Date Analyzed
Chloride	**240**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Mercury

Analyte	Result	Units	Qualifier	Date Analyzed
Mercury	< 0.000200	mg/L		5/15/2020 09:19

Method Reference(s): EPA 7470A
Preparation Date: 5/14/2020
Data File: Hg200515A

TAL Metals (ICP)

Analyte	Result	Units	Qualifier	Date Analyzed
Aluminum	< 0.100	mg/L		5/15/2020 14:14
Antimony	< 0.0600	mg/L		5/15/2020 14:14
Arsenic	< 0.0100	mg/L		5/15/2020 14:14
Barium	< 0.100	mg/L		5/15/2020 14:14
Beryllium	< 0.00500	mg/L		5/15/2020 14:14
Cadmium	< 0.00500	mg/L		5/15/2020 14:14
Calcium	**496**	mg/L		5/15/2020 14:14
Chromium	< 0.0100	mg/L		5/15/2020 14:14
Cobalt	< 0.0500	mg/L		5/15/2020 14:14
Copper	< 0.0400	mg/L		5/15/2020 14:14
Iron	**2.38**	mg/L		5/15/2020 14:14
Lead	< 0.0100	mg/L		5/15/2020 14:14
Magnesium	**57.5**	mg/L		5/15/2020 14:14
Manganese	**0.503**	mg/L		5/15/2020 14:14
Nickel	< 0.0400	mg/L		5/15/2020 14:14
Potassium	**3.89**	mg/L		5/15/2020 14:14

PARADIGM ENVIRONMENTAL SERVICES, INC.

Lab Project ID: 202044

Client: **Neu-Velle**

Project Reference: Elderlee - Annual 2020 GW Sampling

Sample Identifier:	MW-4A		
Lab Sample ID:	202044-06	**Date Sampled:**	5/13/2020
Matrix:	Groundwater	**Date Received:**	5/13/2020

Selenium	< 0.0200	mg/L	5/15/2020	14:14
Silver	< 0.0100	mg/L	5/15/2020	14:14
Sodium	**141**	mg/L	5/15/2020	14:14
Thallium	< 0.0250	mg/L	5/15/2020	14:14
Vanadium	< 0.0250	mg/L	5/15/2020	14:14
Zinc	**13.6**	mg/L	5/18/2020	16:06

Method Reference(s): EPA 6010C
EPA 3005A
Preparation Date: 5/14/2020
Data File: 200515C

Sulfate

Analyte	Result	Units	Qualifier	Date Analyzed
Sulfate	**1400**	mg/L		5/19/2020

Method Reference(s): EPA 300.0 Rev 2.1
Subcontractor ELAP ID: 10709

Analytical Report Appendix

The reported results relate only to the samples as they have been received by the laboratory.

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All soil/sludge samples have been reported on a dry weight basis, unless qualified "reported as received". Other solids are reported as received.

Low level Volatiles blank reports for soil/solid matrix are based on a nominal 5 gram weight. Sample results and reporting limits are based on actual weight, which may be more or less than 5 grams.

The Chain of Custody provides additional information, including compliance with sample condition requirements upon receipt. Sample condition requirements are defined under the 2003 NELAC Standard, sections 5.5.8.3.1 and 5.5.8.3.2.

NYSDOH ELAP does not certify for all parameters. Paradigm Environmental Services or the indicated subcontracted laboratory does hold certification for all analytes where certification is offered by ELAP unless otherwise specified. Aliquots separated for certain tests, such as TCLP, are indicated on the Chain of Custody and final reports with an "A" suffix.

Data qualifiers are used, when necessary, to provide additional information about the data. This information may be communicated as a flag or as text at the bottom of the report. Please refer to the following list of analyte-specific, frequently used data flags and their meaning:

"<" = Analyzed for but not detected at or above the quantitation limit.
"E" = Result has been estimated, calibration limit exceeded.
"Z" = See case narrative.
"D" = Sample, Laboratory Control Sample, or Matrix Spike Duplicate results above Relative Percent Difference limit.
"M" = Matrix spike recoveries outside QC limits. Matrix bias indicated.
"B" = Method blank contained trace levels of analyte. Refer to included method blank report.
"J" = Result estimated between the quantitation limit and half the quantitation limit.
"L" = Laboratory Control Sample recovery outside accepted QC limits.
"P" = Concentration differs by more than 40% between the primary and secondary analytical columns.
"NC" = Not calculable. Applicable to RPD if sample or duplicate result is non-detect or estimated (see primary report for data flags). Applicable to MS if sample is greater or equal to ten times the spike added. Applicable to sample surrogates or MS if sample dilution is 10x or higher.
"" = Indicates any recoveries outside associated acceptance windows. Surrogate outliers in samples are presumed matrix effects. LCS demonstrates method compliance unless otherwise noted.*
"(1)" = Indicates data from primary column used for QC calculation.
"A" = denotes a parameter for which ELAP does not offer approval as part of their laboratory certification program.
"F" = denotes a parameter for which Paradigm does not carry certification, the results for which should therefore only be used where ELAP certification is not required, such as personal exposure assessment.

GENERAL TERMS AND CONDITIONS
LABORATORY SERVICES

These Terms and Conditions embody the whole agreement of the parties in the absence of a signed and executed contract between the Laboratory (LAB) and Client. They shall supersede all previous communications, representations, or agreements, either verbal or written, between the parties. The LAB specifically rejects all additional, inconsistent, or conflicting terms, whether printed or otherwise set forth in any purchase order or other communication from the Client to the LAB. The invalidity or unenforceability in whole or in part of any provision, tern or condition hereof shall not affect in any way the validity or enforceability of the remainder of the Terms and Conditions. No waiver by LAB of any provision, term, or condition hereof or of any breach by or obligation of the Client hereunder shall constitute a waiver of such provision, term, or condition on any other occasion or a waiver of any other breach by or obligation of the Client. This agreement shall be administered and interpreted under the laws of the state which services are procured.

Warranty. Recognizing that the nature of many samples is unknown and that some may contain potentially hazardous components, LAB warrants only that it will perform testing services, obtain findings, and prepare reports in accordance with generally accepted analytical laboratory principles and practices at the time of performance of services. LAB makes no other warranty, express or implied.

Scope and Compensation. LAB agrees to perform the services described in the chain of custody to which these terms and conditions are attached. Unless the parties agree in writing to the contrary, the duties of LAB shall not be construed to exceed the services specifically described. LAB wi use LAB default method for all tests unless specified otherwise on the Work Order.
Payment terms are net 30 days from the date of invoice. All overdue payments are subject to an interest charge of one and one-half percent (1-1/2%) per month or a portion thereof. Client shall also be responsible for costs of collection, including payment of reasonable attorney fees if such expense is incurred. The prices, unless stated, do not include any sale, use or other taxes. Such taxes will be added to invoice prices when required.

Prices. Compensation for services performed will be based on the current Lab Analytical Fee Schedule or on quotations agreed to in writing by the parties. Turnaround time based charges are determined from the time of resolution of all work order questions. Testimony, court appearances or data compilation for legal action will be charged separately. Evaluation and reporting of initial screening runs may incur additional fees.

Limitations of Liability. In the event of any error, omission, or other professional negligence, the sole and exclusive responsibility of LAB shall be to re-perform the deficient work at its own expense and LAB shall have no other liability whatsoever. All claims shall be deemed waived unless made in writing and received by LAB within ninety (90) days following completion of services.
LAB shall have no liability, obligation, or responsibility of any kind for losses, costs, expenses, or other damages (including but not limited to any special, direct, incidental or consequential damages) with respect to LAB's services or results.
All results provided by LAB are strictly for the use of its clients and LAB is in no way responsible for the use of such results by clients or third parties. All reports should be considered in their entirety, and LAB is not responsible for the separation, detachment, or other use of any portion of these reports. Client may not assign the lab report without the written consent of the LAB.
Client covenants and agrees, at its/his/her sole expense, to indemnify, protect, defend, and save harmless the LAB from and against any and all damages, losses, liabilities, obligations, penalties, claims, litigation, demands, defenses, judgments, suits, actions, proceedings, costs, disbursements and/or expenses (including, without limitation attorneys' and experts' fees and disbursements) of any kind whatsoever which may at any time be imposed upon, incurred by or asserted or awarded against client relating to, resulting from or arising out of (a) the breach of this agreement by this client, (b) the negligence of the client in handling, delivering or disclosing any hazardous substance, (c) the violation of the Client of any applicable law, (d) non-compliance by the Client with any environmental permit or (e) a material misrepresentation in disclosing the materials to be tested.

Hazard Disclosure. Client represents and warrants that any sample delivered to LAB will be preceded or accompanied by complete written disclosure of the presence of any hazardous substances known or suspected by Client. Client further warrants that any sample containing any hazardous substance that is to be delivered to LAB will be packaged, labeled, transported, and delivered properly and in accordance with applicable laws.

Sample Handling. Prior to LAB's acceptance of any sample (or after any revocation of acceptance), the entire risk of loss or of damage to such sample remains with Client. Samples are accepted when receipt is acknowledged on chain of custody documentation. In no event will LAB have any responsibility for the action or inaction of any carrier shipping or delivering any sample to or from LAB premises.
Client authorizes LAB to proceed with the analysis of samples as received by the laboratory, recognizing that any samples not in compliance with all current DOH-ELAP-NELAP requirements for containers, preservation or holding time will be noted as such on th final report.
Disposal of hazardous waste samples is the responsibility of the Client. If the Client does not wish such samples returned, LAB may add storage and disposal fees to the final invoice. Maximum storage time for samples is 30 days after completion of analysis unless modified by applicable state or federal laws. Client will be required to give the LAB written instructions concerning disposal of these samples.
LAB reserves the absolute right, exercisable at any time, to refuse to receive delivery of, refuse to accept, or revoke acceptance of any sample, which, in the sole judgment of LAB (a) is of unsuitable volume, (b) may be or become unsuitable for or may pose a risk in handling, transport, or processing for any health, safety, environmental or other reason whether or not due to the presence in the sample of any hazardous substance, and whether or not such presence has been disclosed to LAB by Client or (c) if the condition or sample date make the sample unsuitable for analysis.

Legal Responsibility. LAB is solely responsible for performance of this contract, and no affiliated company, director, officer, employee, or agent shall have any legal responsibility hereunder, whether in contract or tort including negligence.

Assignment. LAB may assign its performance obligations under this contract to other parties, as it deems necessary. LAB shall disclose to Client any assignee (subcontractor) by ELAP ID # on the submitted final report.

Force Majeure. LAB shall have no responsibility or liability to the Client for any failure or delay in performance by LAB, which results in whole or in part from any cause or circumstance beyond the reasonable control of LAB. Such causes and circumstances shall include, but not limited to, acts of God, acts or orders of any government authority, strikes or other labor disputes, natural disasters, accidents, wars, civil disturbances, difficulties or delays in transportation, mail or delivery services, inability to obtain sufficient services or supplies from LAB's usual suppliers, or any other cause beyond LAB's reasonable control.

Law. This contract shall be continued under the laws of the State of New York without regard to its conflicts of laws provision.

179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

CHAIN OF CUSTODY

PARADIGM ENVIRONMENTAL SERVICES, INC.

REPORT TO:		INVOICE TO:		LAB PROJECT ID
CLIENT:	NEW-VELLE LLC	CLIENT:	SAME	202044
ADDRESS:	1667 LAKE AVE	ADDRESS:		Quotation #:
CITY:	ROCHESTER STATE: NY ZIP 14615	CITY: STATE: ZIP:		
PHONE:	585 313-4771	PHONE:		Email: jmoore@new-velle.com
ATTN:	JAMES MOORE	ATTN:		

PROJECT REFERENCE

ELDERLEE - ANNUAL 2020 GW SAMPLING

Matrix Codes:

AQ - Aqueous Liquid; **NQ** - Non-Aqueous Liquid; **WA** - Water; **WG** - Groundwater; **DW** - Drinking Water; **WW** - Wastewater; **SO** - Soil; **SL** - Sludge; **SD** - Solid; **PT** - Paint; **WP** - Wipe; **CK** - Caulk; **OL** - Oil; **AR** - Air

REQUESTED ANALYSIS

DATE COLLECTED	TIME COLLECTED	COMPOSITE	GRAB	SAMPLE IDENTIFIER	MATRIX CODES	NUMBER OF CONTAINERS	TAL METALS	SULFATE/CHLORIDE								REMARKS	PARADIGM LAB SAMPLE NUMBER
5/13/2020	0930		X	MW-9R	WG	2	X	X									01
5/13/2020	1020		X	MW-10R	WG	2	X	X									02
5/13/2020	1120		X	MW-8	WG	2	X	X									03
5/13/2020	1205		X	MW-11	WG	2	X	X									04
5/13/2020	1300		X	MW-5A	WG	2	X	X									05
5/13/2020	1355		X	MW-4A	WG	2	X	X									06
																17°C ice started in cooler NW 5/13/2020 1602	

Turnaround Time		Report Supplements			
Availability contingent upon lab approval; additional fees may apply.					
Standard 5 day	☒	None Required	☒	None Required	☒
10 day	☐	Batch QC	☐	Basic EDD	☐
Rush 3 day	☐	Category A	☐	NYSDEC EDD	☐
Rush 2 day	☐	Category B	☐		
Rush 1 day	☐				
Other please indicate date needed:	☐	Other please indicate package needed:	☐	Other EDD please indicate EDD needed:	☐

JAMES A MOORE	5/13/2020	Sampled By / Date/Time
[signature]	5/13/2020 1555	Relinquished By / Date/Time
[signature]	5/13/2020 1555	Received By / Date/Time
FedEx	5/13/2020 1603	Received @ Lab By / Date/Time

Total Cost:

P.I.F.

By signing this form, client agrees to Paradigm Terms and Conditions (reverse).

See additional page for sample conditions.

PARADIGM

Chain of Custody Supplement

Client: Neu-Velle **Completed by:** Molyneaux

Lab Project ID: 202044 **Date:** 5/13/2020

Sample Condition Requirements

Per NELAC/ELAP 210/241/242/243/244

Condition	NELAC compliance with the sample condition requirements upon receipt Yes	No	N/A
Container Type	X		
Comments			
Transferred to method-compliant container			X
Headspace (<1 mL)			X
Comments			
Preservation	met		~~sulfate~~ chloride
Comments			
Chlorine Absent (<0.10 ppm per test strip)			X
Comments			
Holding Time	X		
Comments			
Temperature	X		met
Comments	17°C iced started in field		
Compliant Sample Quantity/Type	X		
Comments			

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179 Lake Avenue, Rochester, NY 14608 Office (585) 647-2530 Fax (585) 647-3311

PARADIGM ENVIRONMENTAL SERVICES

200514064

CHAIN OF CUSTODY

ADIRONDACK: ELAP ID

200514064

REPORT TO:		INVOICE TO:	
COMPANY:	Paradigm Environmental	COMPANY:	Same
ADDRESS:		ADDRESS:	
CITY: STATE: ZIP:		CITY: STATE: ZIP:	
PHONE: FAX:		PHONE: FAX:	
ATTN:	Reporting	ATTN:	Accounts Payable
COMMENTS:	Please email results to reporting@paradigmenv.com		

LAB PROJECT #:

CLIENT PROJ

TURNAROUND TIME: (WORKING DAYS) ☐ 1 ☐ 2 ☐ 3 ☒ 5 STD

Date Due: 5/21/202

PROJECT NAME/SITE NAME:

REQUESTED ANALYSIS

	DATE	TIME	COMPOSITE	GRAB	SAMPLE LOCATION/FIELD ID	MATRIX	NUMBER OF CONTAINERS	sulfate	chloride	REMARKS	PARADIGM LAB SAMPLE NUMBER
001	1 5/13/2020	0930			202044-01	GW	1	X	X		
002	2	1020			02		1	X	X		
003	3	1120			03		1	X	X		
004	4	1205			04		1	X	X		
005	5	1300			05		1	X	X		
006	6 ↓	1355			06		1	X	X		
	7										
	8										
	9										
	10										

****LAB USE ONLY BELOW THIS LINE****

Sample Condition: Per NELAC/ELAP 210/241/242/243/244

Receipt Parameter	NELAC Compliance
Container Type: Comments:	Y ☐ N ☐
Preservation: Comments:	Y ☐ N ☐
Holding Time: Comments:	Y ☐ N ☐
Temperature: 3°C Comments: [signature]	Y ☐ N ☐

Client		
Sampled By	[signature]	Date/Time 5/14/2020 0830
Relinquished By		Date/Time
Received By	[signature]	Date/Time 5/14/20 351pm
Received @ Lab By		Date/Time

Total Cost:

P.I.F.

APPENDIX E

PHOTO LOGS

Representative Photos
Elderlee, Inc. Site No. – 835014
Date: October 3, 2020

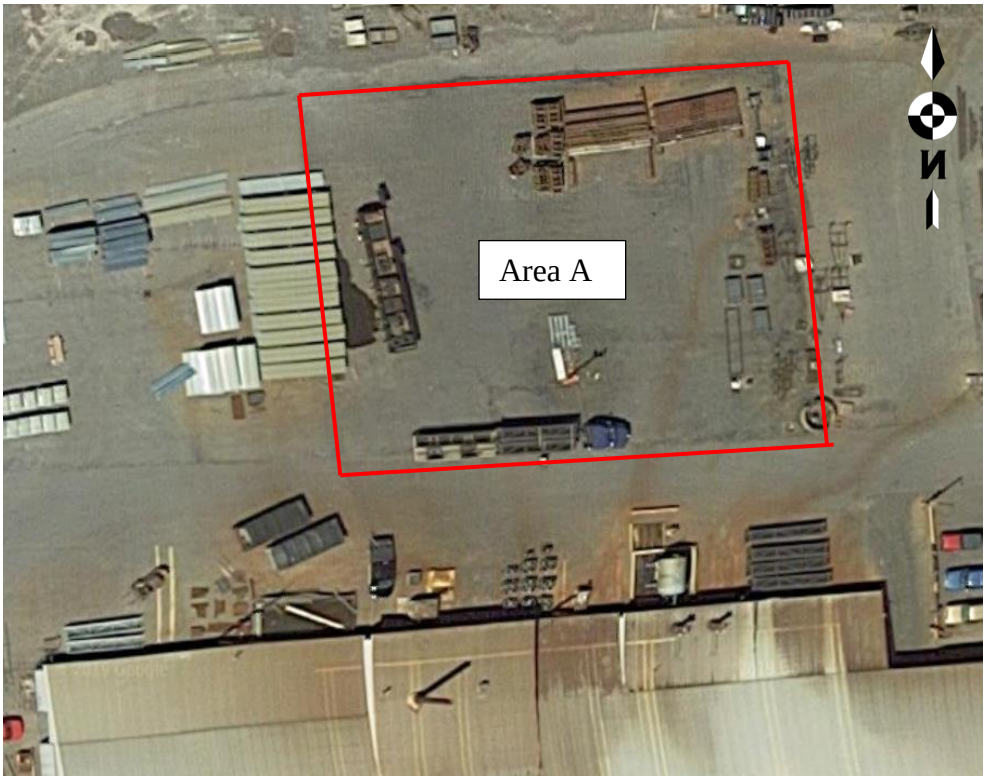

Photo No 1. – Ariel View

Photo No. 2 – Asphalt seal along south edge of Area A – viewing west.

Representative Photos
Elderlee, Inc. Site No. – 835014
Date: October 3, 2020

Photo No. 3 – Asphalt seal along west edge of Area A – viewing north.

Photo No. 4 – Asphalt seal along north edge of Area A – viewing east.

Representative Photos
Elderlee, Inc. Site No. – 835014
Date: October 3, 2020

Photo No. 5 – Asphalt seal along east edge of Area A – viewing south.

Photo No. 6 – Asphalt seal area view of Area A – viewing northwest.