APPENDIX H
SECTION 18
DISCUSSION OF RESULTS

Appendix H - Section 18/20

Discussion of Results

2023 Annual Report

Chautauqua County Landfill (Operational)

Department of Public Facilities
3889 Towerville Road
Jamestown, New York
NYSDEC Region 9

Prepared for

Chautauqua County

Department of Public Facilities
3889 Towerville Road
Jamestown, New York 14701

January 2024

Barton&Loguidice

Chautauqua County Landfill (Operational)
3889 Towerville Road
Jamestown, New York

NYSDEC Region 9

Appendix H – Section 18/20
Discussion of Results
2023 Annual Report

January 2024

Prepared for:

Chautauqua County Department of Public Facilities
3889 Towerville Road
Jamestown, New York 14701

Prepared by:

Barton & Loguidice, D.P.C.
443 Electronics Parkway
Liverpool, New York 13088

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Figures

SAMPLE INFORMATION

Sampling Locations:

Phase I Monitoring Wells			
Upper Brown Till		**Weathered Bedrock**	
TB93S (Upgradient) TB7 TB9A	TB16B TB29B TB36	TB93R (Upgradient) TB7A TB16A TB28A	TB29A TB30 TB36A TB49
Phase II Monitoring Wells			
Upper Brown Till		**Weathered Bedrock**	
TB18A TB31	TB35D TB55D	TB31D TB35C TB55 (Competent Bedrock) TB55A	TB68 TB69A TB70
Phase III Monitoring Wells			
Upper Brown Till		**Weathered Bedrock**	
TB33 TB37 TB39B TB40 TB42 TB43	TB44 TB45 TB-47 TB48 TB73A TB74	TB33B TB37A TB39A TB41A TB42A TB43A	TB44A TB45A TB46 TB47A TB48A
Phase III Monitoring Wells			
Upper Brown Till		**Weathered Bedrock**	
TB93S (Upgradient) TB88S	TB89S	TB88	TB89
Surface Water Monitoring Locations			
N-1 N-2 N-3	N-4 N-6	S-1 S-2 S-3	S-4 S-5 S-8
Porewater Monitoring Locations			
P2S1PWD P2S2PWD	P2S3PWD P2LLPWD	P13LLPWD P3S1PWD	P3S23PWD P4S1PWD
Facility Locations			
P1PCS P2S1S2S3PCS P13OVRPCS	P3S1S23PCS P2S1SCS P2S2SCS	P2S3SCS P13OVRSCS P3S1SCS	P3S23SCS P4S1SCS LFG CONDENSATE

SAMPLE TESTING

Laboratory: All 2023 analytical services were completed by:
Eurofins TestAmerica (TA)

10 Hazelwood Drive
Amherst, New York 14228

Parameters Tested:

Monitoring Location	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
TB87A	SNR	R	R	B
TB7	SNR	R	R	B
TB9A	SNR	R	R	B
TB16B	R	B	R	B
TB29B	SNR	B	R	DRY
TB36	R	B	R	B
TB18A	SNR	R	R	DRY
TB31	SNR	R	R	DRY
TB35D	SNR	R	R	B
TB33	SNR	R	R	B
TB37	SNR	R	R	B
TB93S	SNR	R	DRY	DRY
TB39B	SNR	R	R	B
TB40	SNR	R	R	B
TB42	SNR	R	R	B
TB43	SNR	B	DRY	SNR
TB44	SNR	R	R	B
TB45	SNR	R	DRY	DRY
TB47	SNR	R	R	DRY
TB48	SNR	R	R	B
TB93R	SNR	R	R	B
TB7A	SNR	R	R	B
TB16A	R	B	R	B
TB28A	R	B	R	B
TB29A	R	B	R	B
TB30	R	B	R	B
TB36A	R	B	R	B
TB49	R	B	R	B
TB31D	SNR	R	R	B
TB35C	SNR	R	R	B
TB55	SNR	R	R	B
TB55A	SNR	R	R	B
TB68	SNR	R	R	B
TB69A	SNR	R	R	B
TB70	SNR	R	R	B

Monitoring Location	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
TB33B	SNR	R	R	B
TB37A	R	R	R	B
TB39A	SNR	DRY	DRY	DRY
TB41A	SNR	R	R	B
TB42A	SNR	R	R	B
TB43A	SNR	B	SNR	SNR
TB44A	SNR	R	R	B
TB45A	SNR	R	R	B
TB46	SNR	R	R	B
TB47A	SNR	R	R	B
TB48A	SNR	R	R	B
TB55D	SNR	R	R	B
TB73A	SNR	N/A	DRY	DRY
TB74	R	R	DRY	DRY
TB88S	SNR	R	R	B
TB89S	SNR	R	R	DRY
TB88	SNR	R	R	B
TB89	SNR	R	NA	B
N-1	SNR	R	R	B
N-2	SNR	R	R	B
N-3	SNR	R	R	B
N-4	SNR	R	R	B
N-4A	SNR	R	R	B
N-6	SNR	R	R	B
S-1	SNR	R	R	B
S-2	SNR	R	R	B
S-3	SNR	R	R	B
S-4	SNR	R	R	B
S-5	SNR	R	R	B
S-8	SNR	R	R	B
P2S1PWD	SNR	R	R	B
P2S2PWD	SNR	R	R	B
P2S3PWD	SNR	R	R	DRY
P2LLPWD	SNR	R	R	DRY
P13LLPWD	SNR	R	R	B
P3S1PWD	SNR	R	R	B
P3S23PWD	SNR	R	R	B
P4S1PWD	SNR	R	R	B
P1PCS	SNR	SNR	SNR	B

Monitoring Location	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
P2SCS	SNR	E	SNR	B
P2S1S2S3PCS	SNR	E	SNR	E
P1P3OVRPCS	SNR	E	SNR	E
P3S1S23PCS	SNR	SNR	SNR	B
P2S1SCS	SNR	E	SNR	B
P2S2SCS	SNR	B	SNR	B
P2S3SCS	SNR	B	SNR	B
P1P3OVRSCS	SNR	E	SNR	E
P3S1SCS	SNR	B	SNR	B
P3S23SCS	SNR	B	SNR	E
P4S1SCS	SNR	E	SNR	E
LFG CONDENSATE	SNR	B	SNR	B

Notes:
R = 1998 NYSDEC Part 360 Routine Parameter List
B = 1998 NYSDEC Part 360 Baseline Parameter List
E = 1998 NYSDEC Part 360 Expanded Parameter List
SNR = Sampling Not Required (NA – sampling point not yet constructed)
US = Unable to be Sampled
DRY = Location dry/frozen and unable to be sampled.

ASSESSMENT OF MONITORING RESULTS

Introduction

This report presents a general summary of the water quality data obtained at the Chautauqua County Landfill from the 2023 quarterly monitoring events. Over the year, the Department has received individual reports for each monitoring event. The 2023 environmental monitoring was conducted in accordance with the site Environmental Monitoring Plan (URS, 2013). Field samples were collected from the designated monitoring points by field representatives from Barton & Loguidice, D.P.C. (B&L) during all four 2023 monitoring quarters. Quarterly environmental monitoring data has been included within the 6 NYCRR Part 360 quarterly reports. Our contract laboratory, Eurofins TestAmerica (TA), analyzed all of the samples.

The current active monitoring network at the Chautauqua County Landfill consists of 53 monitoring wells, 11 surface water locations, 8 porewater monitoring locations, and 11 leachate monitoring locations. The site monitoring wells consist of the following:

- Three (3) permanent upgradient wells TB87A, TB93S, and TB93R;
- Twenty five (25) wells screened in the upper brown till, the uppermost hydrogeologic unit at the site;
- Twenty-eight (28) wells screened in the dominant hydrogeologic zone, the fractured, weathered bedrock surface/lower till interface (identified as weathered bedrock throughout);
- One (1) monitoring well (TB55) is completed within competent bedrock;
- Two (2) upper brown till wells: TB73A and TB74 serve as monitoring wells for Condin Road Leachate Lagoon;
- Three (3) bedrock/lower till wells: TB68, TB69A, and TB70 serve as monitoring wells for the Towerville Road leachate lagoon.

Groundwater Quality

The quarterly groundwater quality observed in 2023 was generally consistent with historical data. The majority of the groundwater standard exceedances observed in 2023 are the result of natural conditions or the use of bailers to purge and sample monitoring wells. Purging and sampling wells with bailers has a tendency to draw fine sediments through the well screen, which increases sample turbidity. The total metal exceedances observed in 2023 are likely influenced by sampling related turbidity.

PIPER STIFF EVALUATION

Evaluation of groundwater quality data are analyzed using RockWorks20 computer software (RockWare, 2020) to calculate the ionic balance and generate Stiff diagrams and Piper trilinear diagrams. These diagrams are particularly useful for assessing the similarities and differences in water quality between wells and between water-bearing zones. The Stiff diagrams, in particular, often possess a distinctive

shape that is characteristic of the water in a given water-bearing zone or a portion thereof. The Piper trilinear graphs plot the relative percentages of cations (calcium, magnesium, and sodium) on the lower left cation triangle, while the relative percentages of anions (chloride, sulfate, and carbonate) are plotted on the anion triangle, located on the lower right side of the graph. A central plotting position is then established for each point in the central plotting rhomb by projecting the intersection of rays of the plotting positions from the cation and anion triangles. Water from the same water-bearing zone will typically plot within similar fields on the central rhomb in the trilinear graph.

The Piper trilinear and Stiff diagrams within this report display data for each individual monitoring location, which are then grouped by stratigraphic unit and landfill phase area. Each diagram includes the current Quarter's data and data from the four previous monitoring events.

In general, wells within the Upper Brown Till flow zone plot calcium as the dominant cation and bicarbonate as the dominant anion; thus, the Upper Brown Till flow zone may be described as a calcium bicarbonate type hydrochemical facies. The Phase I Upper Brown Till wells tend to exhibit lower percentages of the remaining cation and anions, particularly sodium-potassium, chloride, and sulfate. TB9A has higher overall cation and anion concentrations in comparison to the remaining Phase I Brown Till wells. In addition, well TB16B is chemically different than the other Phase I Upper Brown Till wells, with a calcium chloride facies type and a very low bicarbonate concentration. The Phase II Upper Brown Till wells are within the calcium bicarbonate type facies, but tend to exhibit higher overall cation and anion concentrations. During the 2023 Fourth Quarter, TB55D had higher overall cation and anion percentages than the remaining Phase II Upper Brown Till wells, which is consistent with historic data for this location. Phase III Upper Brown Till wells plot similar to those within the Phase I and Phase II Upper Brown Till, with relatively abundant calcium and bicarbonate and lower percentages of sodium-potassium, chloride, and sulfate. The Fourth Quarter Phase III Stiff diagrams are consistent with historical data for this unit. Phase IV Upper Brown Till wells also plot within the calcium bicarbonate type hydrochemical facies. In all, cation and anion concentrations within this flow zone are similar to those in the past, with minor exceptions listed above.

The major ion data for wells screened within the Weathered Bedrock flow zone also plot calcium as the dominant cation and bicarbonate as the dominant anion. Therefore, groundwater in the Weathered Bedrock flow zone is classified as a calcium bicarbonate type hydrochemical facies. Wells within the Phase I Weathered Bedrock tend to cluster into two distinct groups. Wells TB93R, TB7A, TB29A, and TB30 have lower overall cation and anion concentrations, while the remaining wells have higher overall cation and anion concentrations. Wells TB16A, TB36A, and TB49 contain higher overall cation and anion concentrations in comparison to the other Phase I Bedrock wells. The Phase II Weathered Bedrock wells typically have lower overall cation concentrations and higher overall anion concentrations, particularly with bicarbonate. Phase III Weathered Bedrock wells typically plot with abundant calcium and bicarbonate concentrations, moderate magnesium concentrations, and lower percentages of sodium-potassium and chloride. Historically, wells TB46, TB47A, TB48A, and TB88S have higher calcium concentrations than the rest of the Phase III Bedrock wells. Phase IV wells also plot within the calcium bicarbonate facies type, but have overall higher bicarbonate concentrations than the rest of the

Weathered Bedrock Wells. In all, cation and anion concentrations within this flow zone are similar to those in the past, with minor exceptions listed above.

The major ion data for the Weathered Bedrock water-bearing zone indicate that there are considerable similarities between this zone and the overlying Upper Brown Till water-bearing zone. Monitoring wells for both the Upper Brown Till and Weathered Bedrock zones are typically plotted near the left vertex of the central plotting rhomb on the Piper Trilinear Diagrams. One exception is TB16B, which is chemically different from the other monitoring locations. Other, minor, exceptions during 2023 quarterly monitoring events are TB55D and TB88S, which consistently plot closer towards the center of the central rhomb than the other monitoring locations.

SURFACE WATER QUALITY

There are a total of twelve surface water monitoring locations, six collected from the stream located north of the landfill facility (N1, N2, N3, N4, N4A, and N6) and six collected from the stream located south of the landfill facility (S1, S2, S3, S4, S5 and S8). N1 and S1 represent the upstream water quality for both water bodies. During the 2023 quarterly monitoring events, several surface water locations demonstrated elevated turbidity values and consequently elevated total metals concentrations. The highest turbidities observed were from locations S-2 and S-3 during the 2023 Second and Third Quarters. There are no indications of leachate impacts to either stream in 2023 and the surface water quality obtained in 2023 are generally consistent with historical data.

LEACHATE MONITORING

There are four primary leachate monitoring locations (P1PCS, P2S1S2S3PCS, P13OVRPCS and P3S1S23PCS), seven secondary leachate monitoring locations (P2S1SCS, P2S2SCS, P2S3SCS, P13OVRSCS, P3S1SCS, P3S23SCS, and P4S1SCS) and one landfill gas condensate sample.

The leachate monitoring is required to be completed during the second and fourth quarters of each year. The primary leachate results obtained from both the second and fourth quarters of 2023 are generally consistent with historical data. The secondary leachate differ slightly. Primary leachate from P4S1SCS has demonstrated increases in specific conductivity and alkalinity starting in 2023. Slighter concentration increases were also observed for chloride and total calcium and total sodium, with decreasing concentrations observed for sulfate. The water quality for this location will be closely examined during the upcoming 2024 Second Quarter monitoring event.

POREWATER MONITORING

There are eight porewater monitoring locations (P3S1PWD, P3S23PWD, P2S1PWD, P2S2PWD, P2S3PWD, P13LLPWD, P2LLPWD and P4S1PWD). The porewater results obtained during 2023 were consistent with historical data.

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APPENDIX I
SECTION 19
DATA QUALITY ASSESMENT

SECTION 19 – DATA QUALITY ASSESSMENT

Data quality assessments were completed within each of the quarterly 6 NYCRR Part 360 report submissions. The three 2023 routine monitoring events consisted of the Eurofins TestAmerica (TA) case narrative reviews. The 2023 Fourth Quarter baseline event was required to be validated by a third party. Overall, no significant items were noted as a result of the 2023 data quality assessments.

APPENDIX J
SECTION 21
SURFACE IMPOUNDMENTS

Appendix J - Section 21

Surface Impoundments

2023 Annual Report

Chautauqua County Landfill (Operational)

Department of Public Facilities
3889 Towerville Road
Jamestown, New York
NYSDEC Region 9

Prepared for

Chautauqua County

Department of Public Facilities
3889 Towerville Road
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January 2024

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NYSDEC Region 9

Appendix J – Section 21
Surface Impoundments
2023 Annual Report

January 2024

Prepared for:

Chautauqua County Department of Public Facilities
3889 Towerville Road
Jamestown, New York 14701

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SECTION 21 – SURFACE IMPOUNDMENTS

There are four major surface impoundments located within the boundaries of the Chautauqua County Landfill. A sedimentation basin and a leachate lagoon (Condin Road) serve the Phase I and III sections of the landfill. The Phase II section is served by another sedimentation basin and leachate lagoon (Towerville Road).

Condin Road and Towerville Road Sedimentation Basins

Located on the northern boundary of the landfill is a sedimentation basin, which serves as a storm buffer and stilling basin for Phases I and III. Surface runoff from the Phase I and Phase III areas is directed, by means of a drainage network, to this sedimentation basin prior to discharge. The basin is sampled on a weekly basis, and a summary of the analytical data is forwarded directly to the Department with the annual report. Furthermore, tributary N-4 serves as a monitoring point for the basin. Based on 2023 data from that location, there is no evidence of landfill related impact.

The County uses a number of measures to minimize the impact of the active landfill area on surface water quality. Proper application of daily and intermediate cover minimizes leachate generation, as does carefully planned fill progression and limiting the area of the working face. Runoff from areas of daily cover is collected and prevented from reaching the sedimentation basin where it could impact water quality. Cover material is stripped back each day, prior to placing new waste, to eliminate horizontal soil layers, which can block seepage downward. The use of alternate daily cover materials, which are easily removed, also helps to ensure downward drainage. The active areas of fill are inspected regularly and any outbreaks are repaired promptly by excavating through the soil barrier, back-filling the hole with stone drainage material and capping the area with new soil cover. The placement of the thick, layered, final cover system on the closed sections of the landfill also helps to eliminate outbreaks. While it is not possible to totally eliminate all impacts of the landfill operation, best management practices can significantly reduce them. The winter use of treated sand on the facility's driveways and disturbed soils has a subtle effect on surface water chemistry.

A storm water retention, sediment control basin was constructed on the south side of the facility, to serve the Phase II area. The facility is located south of Towerville Road. Tributary S-3 serves as a monitoring location for the Towerville Road basin (Section 14). The 2023 results for S-3 are consistent with historical data.

Condin Road Leachate Lagoon (Phases I/III)

The Condin Road leachate lagoon is a collection and temporary storage point for all leachate currently generated in the Phase I and III landfill areas. The lagoon was constructed with a single flexible membrane liner (FML). The County installed a second FML liner and secondary leachate collection system to the Phase I/III leachate lagoon during the summer of 2003 in conjunction with the Phase III capping project. Prior to these modifications, any leakage through the FML liner was collected in the pore water sump, which also functioned like a secondary collection system. The volume of water discharged from the pore water outlet is generally very small. This water is collected and pumped back

to the lagoon for treatment. The lagoon is cleaned, inspected, and repaired if necessary, yearly to ensure optimal performance and liner integrity.

The County installed a shallow monitoring well, TB-73A, in the northeast corner of the Condin Road leachate lagoon on July 20, 1995. A second well, TB-74, was installed on November 11, 1997. These wells are located downgradient of the storage basin to monitor for possible leakage. Monitoring wells TB-73A a nd TB-74 were reported dry and unable to be sampled during the third quarter 2023 monitoring event. The remainder of 2023 data collected for TB-73A and TB-74 suggest no significant leachate impact downgradient from the Condin Road leachate lagoon.

HISTORICAL SUMMARY

This facility was originally constructed with an 80 mil geomembrane liner (HDPE) and pore water drain. The facility was updated in 2003 and now includes, in descending order: a 60 mil primary geomembrane liner (HDPE), geosynthetic drainage layer for a secondary collection system, an 80-mil secondary geomembrane (HDPE), and pore water drainage layer.

The pore water collection system, which daylights on the east side of the lagoon, was not modified. The County continues to collect, measure, test, report, and treat the pore water fluids from the storage lagoon's pore water system.

South Basin (Towerville Road Leachate Basin)

The Towerville Road leachate lagoon was constructed with a double composite liner and pore water drain, and serves Phase II. Waste placement in the Phase II, Stage 1 cell began November 25, 1996. Waste placement in the Phase II, Stage 2 cell began May 14, 2001. Waste placement in the Phase II, Stage 3 cell began July 5, 2006. The porewater drain sample for the Towerville Road Leachate lagoon is designated P2LLPWD. P2LLPWD was sampled during the 2023 Second, Third, and Fourth Quarter monitoring events. The data collected for this location is generally consistent with historical data.

Wells TB68, TB69A and TB70 were installed to monitor groundwater quality downgradient of the Towerville Road lagoon. The 2023 analytical results for these locations are within historic ranges. Based on the 2023 analytical data leachate impacts were not observed in these wells.

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APPENDIX K
SECTION 22
PERMIT / CONCENT ORDER REPORTING REQUIREMENTS

SUPPLEMENTARY CONDITIONS
REPORTING REQUIREMENTS #44

GROUNDWATER ELEVATIONS AND POTENTIOMETRIC MAPS

CHAUTAUQUA COUNTY LANDFILL
GROUNDWATER ELEVATION SURVEY -- 1Q 2023 **SURVEY DATE: 20-Mar-23**

Qtrly Sampling	NOTES	WELL #	PVC MEASURE POINT ELEVATION	DEPTH TO WATER (FT)	WATER LEVEL ELEVATION	ORIGINAL WELL DEPTH (FT)	CONFIRMED DEPTH OF WELL (FT)	AMOUNT OF FILL (FT)
N		T.B.-6	1576.79	7.12	1569.67	24.68	24.52	0.16
N		T.B.-6A	1578.39	6.33	1572.06	17.08	17.00	0.08
2,3,4		T.B.-7	1608.61	2.64	1605.97	17.18	17.18	0.00
2,3,4		T.B.-7A	1608.70	2.55	1606.15	25.44	25.33	0.11
2,3,4		T.B.-9A	1604.99	3.28	1601.71	14.74	14.74	0.00
1		T.B.-16A	1592.02	6.65	1585.37	14.94	14.88	0.06
1		T.B.-16B	1592.90	7.95	1584.95	12.99	12.93	0.06
N		T.B.-18	1620.10	14.30	1605.80	30.83	30.82	0.01
2,3,4		T.B.-18A	1618.77	2.73	1616.04	10.65	10.55	0.10
N	PVC cut 0.15 ft. 8/4/10	T.B.-22	1595.91	4.43	1591.48	24.78	24.78	0.00
N		T.B.-22A	1596.71	4.98	1591.73	19.19	19.18	0.01
N		T.B.-22B	1595.16	25.10	1570.06	44.14	44.14	0.00
1		T.B.-28A	1578.15	9.68	1568.47	15.85	15.92	-0.07
1		T.B.-29A	1582.22	8.31	1573.91	12.96	13.04	-0.08
1		T.B.-29B	1581.82	3.80	1578.02	8.36	8.48	-0.12
1		T.B.-30	1598.79	6.36	1592.43	16.89	16.98	-0.09
2,3,4		T.B.-31	1620.77	3.29	1617.48	13.28	13.28	0.00
2,3,4		T.B.-31D	1624.10	21.61	1602.49	44.98	44.97	0.01
2,3,4		T.B.-33	1604.96	6.41	1598.55	14.32	14.32	0.00
2,3,4		T.B.-33B	1604.61	6.34	1598.27	20.24	20.28	-0.04
2,3,4		T.B.-35C	1620.53	21.59	1598.94	32.04	32.04	0.00
2,3,4		T.B.-35D	1620.99	4.55	1616.44	15.58	15.58	0.00
1		T.B.-36	1619.09	4.00	1615.09	13.47	13.41	0.06
1		T.B.-36A	1619.20	5.18	1614.02	18.98	18.92	0.06
2,3,4		T.B.-37	1589.44	2.20	1587.24	15.30	15.30	0.00
2,3,4		T.B.-37A	1589.37	25.28	1564.09	34.44	34.44	0.00
N		T.B.-38	1588.72	1.45	1587.27	12.54	12.51	0.03
N		T.B.-38A	1588.33	25.28	1563.05	27.39	27.30	0.09
2,3,4	Dry	T.B.-39A	1587.89	26.21	1561.68	26.46	26.34	0.12
2,3,4		T.B.-39B	1587.86	2.50	1585.36	11.82	11.76	0.06
2,3,4		T.B.-40	1582.52	2.51	1580.01	12.65	12.57	0.08
N		T.B.-40A	1582.42	21.09	1561.33	25.26	25.15	0.11
N		T.B.-41	1578.50	16.53	1561.97	21.72	21.62	0.10
2,3,4		T.B.-41A	1578.71	20.36	1558.35	30.32	30.23	0.09
2,3,4		T.B.-42	1569.07	9.49	1559.58	22.24	22.16	0.08
2,3,4		T.B.-42A	1567.59	11.79	1555.80	26.58	26.50	0.08
2,4		T.B.-43	1564.97	5.90	1559.07	15.28	15.20	0.08
2		T.B.-43A	1565.66	10.13	1555.53	25.03	24.91	0.12
2,3,4		T.B.-44	1570.22	15.61	1554.61	23.56	23.49	0.07
2,3,4		T.B.-44A	1568.42	16.94	1551.48	31.02	31.04	-0.02
2,3,4		T.B.-45	1571.71	13.19	1558.52	15.32	15.15	0.17
2,3,4		T.B.-45A	1572.06	14.39	1557.67	19.90	19.80	0.10
2,3,4		T.B.-46	1576.61	12.51	1564.10	17.69	17.79	-0.10
2,3,4		T.B.-47	1572.65	4.02	1568.63	9.19	9.14	0.05
2,3,4		T.B.-47A	1574.70	10.21	1564.49	18.70	18.70	0.00
2,3,4	bailer stuck	T.B.-48	1577.10		1577.10	16.46	16.46	0.00
2,3,4		T.B.-48A	1576.80	14.51	1562.29	23.14	23.09	0.05
1		T.B.-49	1584.85	5.56	1579.29	14.38	14.32	0.06
2,3,4		T.B.-55	1608.44	12.64	1595.80	56.76	56.57	0.19
2,3,4		T.B.-55A	1608.90	11.56	1597.34	42.16	42.16	0.00
N		T.B.-55C	1608.56	10.74	1597.82	34.70	34.49	0.21
2,3,4	PVC cut 0.15 ft. 8/4/10	T.B.-55D	1614.76	6.44	1608.32	19.62	19.22	0.40
2,3,4		T.B.-68	1594.60	3.29	1591.31	30.26	30.26	0.00
N		T.B.-69	1613.91	27.60	1586.31	31.52	31.41	0.11
2,3,4		T.B.-69A	1586.71	14.19	1572.52	44.70	44.82	-0.12
2,3,4		T.B.-70	1613.49	17.31	1596.18	35.84	35.78	0.06
N		T.B.-71	1671.15	65.35	1605.80	77.10	77.10	0.00
N		T.B.-71A	1672.29	4.31	1667.98	12.45	12.45	0.00
1,2,3,4		T.B.-73A	1556.33	11.14	1545.19	12.35	12.35	0.00
1,2,3,4		T.B.-74	1544.78	14.00	1530.78	17.33	17.31	0.02
N		T.B.-87	1657.04	53.45	1603.59	57.91	57.91	0.00
2,3,4		T.B.-87A	1656.22	3.91	1652.31	13.14	13.14	0.00
N		T.B.-81D	1674.89	56.50	1618.39	123.00	122.99	0.01
N		T.B.-81R	1674.71	56.41	1618.30	78.12	78.12	0.00
N		T.B.-81S	1675.13	2.87	1672.26	10.25	10.25	0.00
2,3,4		T.B.-93R	1665.78	46.91	1618.87	70.38	70.38	0.00
2,3,4		T.B.-93S	1668.02	4.25	1663.77	10.45	10.25	0.20
N		T.B.-91	1639.03	55.01	1584.02	129.00	128.98	0.02
N		T.B.-91S	1640.39	6.81	1633.58	13.25	13.25	0.00
N		T.B.-90	1647.24	62.43	1584.81	137.00	136.55	0.45
N		T.B.-90S	1647.93	2.75	1645.18	12.98	13.03	-0.05
2,3,4		T.B.-88	1605.65	13.29	1592.36	61.78	61.78	0.00
N		T.B.-88D	1605.42	25.02	1580.40	92.70	92.90	-0.20
2,3,4		T.B.-88S	1605.38	9.11	1596.27	12.24	12.24	0.00
2,3,4		T.B.-89	1635.64	54.41	1581.23	128.50	128.50	0.00
2,3,4		T.B.-89S	1634.99	3.26	1631.73	12.96	12.90	0.06

Qtrly Sampling:
- N — DENOTES WELLS CURRENTLY NOT IN SAMPLING PROGRAM.
- 1 — Wells sampled only 1st quarter.
- 2,4 — Wells sampled only 2nd and 4th quarters.
- 2,3,4 — Wells samples only in 2nd, 3rd, and 4th quarters.
- 3 — Wells sampled only 3rd quarter.

Notes:
- D — DENOTES WELL WAS DRY.
- F — DENOTES WELL WAS FROZEN.
- B — DENOTES WELL IS BROKEN.
- P — DENOTES WELL IS PLUGGED.

ELEVATION BASED ON CCDPW CONSTRUCTION DATUM - B.M. @ N. MOHAWK POLE #46= 1621.80; USGS ELEVATION @ B.M.= 1623.14

#MEASUREING POINT FOR ALL ELEVATIONS IS THE TOP OF PVC
ALL MEASUREMENTS ARE TAKEN ADJACENT TO THE LOCKING HOLE ON THE PROTECTIVE STEEL CASING

Ref: I:\Private\Engineer\CAD\MDF\GroundWaterWells.dwg

CHAUTAUQUA COUNTY LANDFILL

GROUNDWATER ELEVATION SURVEY -- 2Q 2023 **SURVEY DATE:**

Qtrly Sampling	NOTES	WELL #	PVC MEASURE POINT ELEVATION	DEPTH TO WATER (FT)	WATER LEVEL ELEVATION	ORIGINAL WELL DEPTH (FT)	CONFIRMED DEPTH OF WELL (FT)	AMOUNT OF FILL (FT)
N		T.B.-6	1576.79	**6.50**	1570.29	24.68	24.54	0.14
N		T.B.-6A	1578.39	**5.66**	1572.73	17.08	16.98	0.10
2,3,4		T.B.-7	1608.61	**2.45**	1606.16	17.18	17.09	0.09
2,3,4		T.B.-7A	1608.70	**2.73**	1605.97	25.44	25.34	0.10
2,3,4		T.B.-9A	1604.99	**1.73**	1603.26	14.74	14.56	0.18
2		T.B.-16A	1592.02	**6.54**	1585.48	14.94	14.88	0.06
2		T.B.-16B	1592.90	**7.19**	1585.71	12.99	12.93	0.06
N		T.B.-18	1620.10	**14.48**	1605.62	30.83	30.79	0.04
2,3,4		T.B.-18A	1618.77	**2.80**	1615.97	10.65	10.55	0.10
N		T.B.-22	1595.91	**7.94**	1587.97	24.78	24.44	0.34
N		T.B.-22A	1596.71	**8.19**	1588.52	19.19	19.01	0.18
N		T.B.-22B	1595.16	**25.64**	1569.52	44.14	44.01	0.13
2		T.B.-28A	1578.15	**10.17**	1567.98	15.85	15.92	-0.07
2		T.B.-29A	1582.22	**8.64**	1573.58	12.96	13.04	-0.08
2		T.B.-29B	1581.82	**3.75**	1578.07	8.36	8.48	-0.12
2		T.B.-30	1598.79	**5.90**	1592.89	16.89	16.98	-0.09
2,3,4		T.B.-31	1620.77	**3.63**	1617.14	13.28	13.17	0.11
2,3,4		T.B.-31D	1624.10	**21.49**	1602.61	44.98	44.91	0.07
2,3,4		T.B.-33	1604.96	**6.00**	1598.96	14.32	14.26	0.06
2,3,4		T.B.-33B	1604.61	**5.34**	1599.27	20.24	20.28	-0.04
2,3,4		T.B.-35C	1620.53	**21.43**	1599.10	32.04	32.01	0.03
2,3,4		T.B.-35D	1620.99	**4.38**	1616.61	15.58	15.48	0.10
2		T.B.-36	1619.09	**4.16**	1614.93	13.47	13.41	0.06
2		T.B.-36A	1619.20	**5.01**	1614.19	18.98	18.92	0.06
2,3,4		T.B.-37	1589.44	**1.58**	1587.86	15.30	15.26	0.04
2,3,4		T.B.-37A	1589.37	**26.83**	1562.54	34.44	34.36	0.08
N		T.B.-38	1588.72	**3.02**	1585.70	12.54	12.49	0.05
N		T.B.-38A	1588.33	**25.29**	1563.04	27.39	27.30	0.09
2,3,4		T.B.-39A	1587.89	**24.99**	1562.90	26.46	26.35	0.11
2,3,4		T.B.-39B	1587.86	**2.26**	1585.60	11.82	11.76	0.06
2,3,4		T.B.-40	1582.52	**2.39**	1580.13	12.65	12.58	0.07
N		T.B.-40A	1582.42	**21.05**	1561.37	25.26	25.13	0.13
N		T.B.-41	1578.50	**16.26**	1562.24	21.72	21.60	0.12
2,3,4		T.B.-41A	1578.71	**20.00**	1558.71	30.32	30.23	0.09
2,3,4		T.B.-42	1569.07	**8.69**	1560.38	22.24	22.16	0.08
2,3,4		T.B.-42A	1567.59	**11.50**	1556.09	26.58	26.51	0.07
2,4		T.B.-43	1564.97	**5.32**	1559.65	15.28	15.20	0.08
		T.B.-43A	1565.66	**10.38**	1555.28	25.03	24.91	0.12
2,3,4		T.B.-44	1570.22	**15.01**	1555.21	23.56	23.53	0.03
2,3,4		T.B.-44A	1568.42	**14.01**	1554.41	31.02	31.03	-0.01
2,3,4		T.B.-45	1571.71	**12.92**	1558.79	15.32	15.22	0.10
2,3,4		T.B.-45A	1572.06	**14.14**	1557.92	19.90	19.83	0.07
2,3,4		T.B.-46	1576.61	**11.98**	1564.63	17.69	17.73	-0.04
2,3,4		T.B.-47	1572.65	**3.62**	1569.03	9.19	9.29	-0.10
2,3,4		T.B.-47A	1574.70	**9.99**	1564.71	18.70	18.73	-0.03
2,3,4		T.B.-48	1577.10	**9.67**	1567.43	16.46	16.54	-0.08
2,3,4		T.B.-48A	1576.80	**13.58**	1563.22	23.14	23.15	-0.01
2		T.B.-49	1584.85	**5.70**	1579.15	14.38	14.32	0.06
2,3,4		T.B.-55	1608.44	**12.61**	1595.83	56.76	56.60	0.16
2,3,4		T.B.-55A	1608.90	**11.44**	1597.46	42.16	42.18	-0.02
N		T.B.-55C	1608.56	**10.72**	1597.84	34.70	34.48	0.22
2,3,4		T.B.-55D	1614.76	**6.08**	1608.68	19.62	19.42	0.20
2,3,4		T.B.-68	1594.60	**2.25**	1592.35	30.26	30.34	-0.08
N		T.B.-69	1613.91	**30.05**	1583.86	31.52	31.34	0.18
2,3,4		T.B.-69A	1586.71	**14.09**	1572.62	44.70	44.83	-0.13
2,3,4		T.B.-70	1613.49	**17.58**	1595.91	35.84	35.78	0.06
N		T.B.-71	1671.15	**67.91**	1603.24	77.10	77.09	0.01
N		T.B.-71A	1672.29	**3.71**	1668.58	12.45	12.25	0.20
2		T.B.-73A	1556.33	**11.03**	1545.30	12.35	12.35	0.00
2		T.B.-74	1544.78	**13.31**	1531.47	17.33	17.31	0.02
N		T.B.-87	1657.04	**52.85**	1604.19	57.91	57.91	0.00
2,3,4		T.B.-87A	1656.22	**4.96**	1651.26	13.14	13.34	-0.20
N		T.B.-81D	1674.89	**56.12**	1618.77	123.00	123.31	-0.31
N		T.B.-81R	1674.71	**55.97**	1618.74	78.12	77.79	0.33
N		T.B.-81S	1675.13	**4.45**	1670.68	10.25	10.25	0.00
2,3,4		T.B.-93R	1665.78	**46.83**	1618.95	70.38	70.43	-0.05
2,3,4		T.B.-93S	1668.02	**3.87**	1664.15	10.45	10.39	0.06
N		T.B.-91	1639.03	**55.46**	1583.57	130.00	130.00	0.00
N		T.B.-91S	1640.39	**8.00**	1632.39	13.25	13.32	-0.07
N		T.B.-90	1647.24	**62.53**	1584.71	137.00	136.73	0.27
N		T.B.-90S	1647.93	**4.64**	1643.29	12.98	12.94	0.04
2,3,4		T.B.-88	1605.65	**13.28**	1592.37	61.78	61.78	0.00
N		T.B.-88D	1605.42	**25.23**	1580.19	92.70	92.89	-0.19
2,3,4		T.B.-88S	1605.38	**8.83**	1596.55	12.24	12.24	0.00
2,3,4		T.B.-89	1635.64	**53.95**	1581.69	128.50	128.50	0.00
2,3,4		T.B.-89S	1634.99	**3.05**	1631.94	12.96	12.96	0.00

Qtrly Sampling:
- N — DENOTES WELLS CURRENTLY NOT IN SAMPLING PROGRAM.
- 1 — Wells sampled only 1st quarter.
- 2,4 — Wells sampled only 2nd and 4th quarters.
- 2,3,4 — Wells samples only in 2nd, 3rd, and 4th quarters.
- 3 — Wells sampled only 3rd quarter.

Notes:
- D — DENOTES WELL WAS DRY.
- F — DENOTES WELL WAS FROZEN.
- B — DENOTES WELL IS BROKEN.
- C — ORIGIONAL WELL DEPTHS CORRECTED AFTER LOG REVIEW AND FIELD VERIFICATION

ELEVATION BASED ON CCDPW CONSTRUCTION DATUM - B.M. @ N. MOHAWK
POLE #46= 1621.80; USGS ELEVATION @ B.M.= 1623.14

#MEASUREING POINT FOR ALL ELEVATIONS IS THE TOP OF PVC
ALL MEASUREMENTS ARE TAKEN ADJACENT TO THE LOCKING
HOLE ON THE PROTECTIVE STEEL CASING

Ref: I:\Private\Engineer\CAD\MDF\GroundWaterWells.dwg

CHAUTAUQUA COUNTY LANDFILL

GROUNDWATER ELEVATION SURVEY -- 3Q 2023 **SURVEY DATE: 11-Sep-23**

Qtrly Sampling	NOTES	WELL #	PVC MEASURE POINT ELEVATION	DEPTH TO WATER (FT)	WATER LEVEL ELEVATION	ORIGINAL WELL DEPTH (FT)	CONFIRMED DEPTH OF WELL (FT)	AMOUNT OF FILL (FT)
N		T.B.-6	1576.79	**9.09**	1567.70	24.68	24.52	0.16
N		T.B.-6A	1578.39	**6.91**	1571.48	17.08	16.95	0.13
2,3,4		T.B.-7	1608.61	**8.06**	1600.55	17.18	17.09	0.09
2,3,4		T.B.-7A	1608.70	**8.00**	1600.70	25.44	25.34	0.10
2,3,4		T.B.-9A	1604.99	**3.23**	1601.76	14.74	14.56	0.18
3		T.B.-16A	1592.02	**9.78**	1582.24	14.94	14.88	0.06
3		T.B.-16B	1592.90	**9.62**	1583.28	12.99	12.93	0.06
N		T.B.-18	1620.10	**15.59**	1604.51	30.83	30.81	0.02
2,3,4		T.B.-18A	1618.77	**9.19**	1609.58	10.65	10.55	0.10
N		T.B.-22	1595.91	**17.18**	1578.73	24.78	24.45	0.33
N		T.B.-22A	1596.71	**15.11**	1581.60	19.19	19.03	0.16
N		T.B.-22B	1595.16	**28.02**	1567.14	44.14	44.03	0.11
3		T.B.-28A	1578.15	**12.87**	1565.28	15.85	15.92	-0.07
3		T.B.-29A	1582.22	**9.47**	1572.75	12.96	13.04	-0.08
3		T.B.-29B	1581.82	**7.65**	1574.17	8.36	8.48	-0.12
3		T.B.-30	1598.79	**11.62**	1587.17	16.89	16.98	-0.09
2,3,4		T.B.-31	1620.77	**9.35**	1611.42	13.28	13.17	0.11
2,3,4		T.B.-31D	1624.10	**23.22**	1600.88	44.98	44.91	0.07
2,3,4		T.B.-33	1604.96	**8.30**	1596.66	14.32	14.26	0.06
2,3,4		T.B.-33B	1604.61	**7.32**	1597.29	20.24	20.28	-0.04
2,3,4		T.B.-35C	1620.53	**21.80**	1598.73	32.04	32.01	0.03
2,3,4		T.B.-35D	1620.99	**6.79**	1614.20	15.58	15.48	0.10
3		T.B.-36	1619.09	**7.35**	1611.74	13.47	13.41	0.06
3		T.B.-36A	1619.20	**7.85**	1611.35	18.98	18.92	0.06
2,3,4		T.B.-37	1589.44	**6.49**	1582.95	15.30	15.26	0.04
2,3,4		T.B.-37A	1589.37	**27.09**	1562.28	34.44	34.36	0.08
N		T.B.-38	1588.72	**9.41**	1579.31	12.54	12.49	0.05
N		T.B.-38A	1588.33	**26.39**	1561.94	27.39	27.39	0.00
2,3,4	DRY	T.B.-39A	1587.89	**26.35**	1561.54	26.46	26.35	0.11
2,3,4		T.B.-39B	1587.86	**5.63**	1582.23	11.82	11.76	0.06
2,3,4		T.B.-40	1582.52	**7.25**	1575.27	12.65	12.58	0.07
N		T.B.-40A	1582.42	**22.64**	1559.78	25.26	25.15	0.11
N		T.B.-41	1578.50	**21.56**	1556.94	21.72	21.62	0.10
2,3,4		T.B.-41A	1578.71	**22.13**	1556.58	30.32	30.23	0.09
2,3,4		T.B.-42	1569.07	**14.86**	1554.21	22.24	22.16	0.08
2,3,4		T.B.-42A	1567.59	**13.57**	1554.02	26.58	26.51	0.07
2,4	SNR	T.B.-43	1564.97	**13.01**	1551.96	15.28	15.20	0.08
2,3	SNR	T.B.-43A	1565.66	**12.09**	1553.57	25.03	24.91	0.12
2,3,4		T.B.-44	1570.22	**17.53**	1552.69	23.56	23.53	0.03
2,3,4		T.B.-44A	1568.42	**16.59**	1551.83	31.02	31.04	-0.02
2,3,4		T.B.-45	1571.71	**14.27**	1557.44	15.32	15.22	0.10
2,3,4		T.B.-45A	1572.06	**15.19**	1556.87	19.90	19.83	0.07
2,3,4		T.B.-46	1576.61	**12.95**	1563.66	17.69	17.73	-0.04
2,3,4		T.B.-47	1572.65	**8.23**	1564.42	9.19	9.29	-0.10
2,3,4		T.B.-47A	1574.70	**11.53**	1563.17	18.70	18.73	-0.03
2,3,4	Bailer stuck	T.B.-48	1577.10	**16.46**	1560.64	16.46	16.46	0.00
2,3,4		T.B.-48A	1576.80	**19.20**	1557.60	23.14	23.15	-0.01
3		T.B.-49	1584.85	**9.30**	1575.55	14.38	14.32	0.06
2,3,4		T.B.-55	1608.44	**13.82**	1594.62	56.76	56.60	0.16
2,3,4		T.B.-55A	1608.90	**12.19**	1596.71	42.16	42.18	-0.02
N		T.B.-55C	1608.56	**32.03**	1576.53	34.70	34.55	0.15
2,3,4		T.B.-55D	1614.76	**9.03**	1605.73	19.62	19.42	0.20
2,3,4		T.B.-68	1594.60	**12.65**	1581.95	30.26	30.34	-0.08
N		T.B.-69	1613.91	**28.39**	1585.52	31.52	31.42	0.10
2,3,4		T.B.-69A	1586.71	**14.28**	1572.43	44.70	44.83	-0.13
2,3,4		T.B.-70	1613.49	**17.67**	1595.82	35.84	35.78	0.06
N		T.B.-71	1671.15	**69.94**	1601.21	77.10	77.10	0.00
N		T.B.-71A	1672.29	**6.41**	1665.88	12.45	12.29	0.16
3	DRY	T.B.-73A	1556.33	**12.35**	1543.98	12.35	12.35	0.00
3		T.B.-74	1544.78	**17.21**	1527.57	17.33	17.31	0.02
N		T.B.-87	1657.04	**54.42**	1602.62	57.91	57.90	0.01
2,3,4		T.B.-87A	1656.22	**8.71**	1647.51	13.14	13.24	-0.10
N		T.B.-81D	1674.89	**56.52**	1618.37	123.00	123.35	-0.35
N		T.B.-81R	1674.71	**56.30**	1618.41	78.12	78.29	-0.17
N		T.B.-81S	1675.13	**8.32**	1666.81	10.25	10.25	0.00
2,3,4		T.B.-93R	1665.78	**46.34**	1619.44	70.38	70.43	-0.05
2,3,4		T.B.-93S	1668.02	**10.14**	1657.88	10.45	10.39	0.06
N		T.B.-91	1639.03	**57.94**	1581.09	130.00	130.00	0.00
N		T.B.-91S	1640.39	**13.13**	1627.26	13.25	13.28	-0.03
N		T.B.-90	1647.24	**65.10**	1582.14	137.00	137.10	-0.10
N		T.B.-90S	1647.93	**10.04**	1637.89	12.98	13.05	-0.07
2,3,4		T.B.-88	1605.65	**14.60**	1591.05	61.78	61.78	0.00
N		T.B.-88D	1605.42	**27.56**	1577.86	92.70	92.81	-0.11
2,3,4		T.B.-88S	1605.38	**4.55**	1600.83	12.24	12.24	0.00
2,3,4		T.B.-89	1635.64	**56.70**	1578.94	128.50	128.50	0.00
2,3,4		T.B.-89S	1634.99	**4.63**	1630.36	12.96	12.96	0.00

Qtrly Sampling:
- N — DENOTES WELLS CURRENTLY NOT IN SAMPLING PROGRAM.
- 1 — Wells sampled only 1st quarter.
- 2,4 — Wells sampled only 2nd and 4th quarters.
- 2,3,4 — Wells samples only in 2nd, 3rd, and 4th quarters.
- 3 — Wells sampled only 3rd quarter.

Notes:
- D — DENOTES WELL WAS DRY.
- F — DENOTES WELL WAS FROZEN.
- B — DENOTES WELL IS BROKEN.
- C — ORIGIONAL WELL DEPTHS CORRECTED AFTER LOG REVIEW AND FIELD VERIFICATION

ELEVATION BASED ON CCDPW CONSTRUCTION DATUM - B.M. @ N. MOHAWK
POLE #46= 1621.80; USGS ELEVATION @ B.M.= 1623.14

#MEASUREING POINT FOR ALL ELEVATIONS IS THE TOP OF PVC
ALL MEASUREMENTS ARE TAKEN ADJACENT TO THE LOCKING
HOLE ON THE PROTECTIVE STEEL CASING

Ref: I:\Private\Engineer\CAD\MDF\GroundWaterWells.dwg

CHAUTAUQUA COUNTY LANDFILL

GROUNDWATER ELEVATION SURVEY -- 4Q 2023 SURVEY DATE: 14-Nov-23

Qtrly Sampling	NOTES	WELL #	PVC MEASURE POINT ELEVATION May-20	DEPTH TO WATER (FT)	WATER LEVEL ELEVATION	ORIGINAL WELL DEPTH (FT)	CONFIRMED DEPTH OF WELL (FT)	AMOUNT OF FILL (FT)
N		T.B.-6	1576.79	10.01	1566.78	24.68	24.52	0.16
N		T.B.-6A	1578.39	7.36	1571.03	17.08	16.98	0.10
2,3,4		T.B.-7	1608.61	10.27	1598.34	17.18	17.09	0.09
2,3,4		T.B.-7A	1608.70	10.29	1598.41	25.44	25.34	0.10
2,3,4		T.B.-9A	1604.99	7.53	1597.46	14.74	14.56	0.18
4		T.B.-16A	1592.02	10.30	1581.72	14.94	14.88	0.06
4		T.B.-16B	1592.90	10.64	1582.26	12.99	12.88	0.11
N		T.B.-18	1620.10	15.70	1604.40	30.83	30.81	0.02
2,3,4		T.B.-18A	1618.77	10.55	1608.22	10.65	10.55	0.10
N	PVC cut 0.15 ft. 8/4/10	T.B.-22	1595.91	9.35	1586.56	24.78	24.45	0.33
N		T.B.-22A	1596.71	9.50	1587.21	19.19	19.03	0.16
N		T.B.-22B	1595.16	27.58	1567.58	44.14	44.03	0.11
4		T.B.-28A	1578.15	10.13	1568.02	15.85	15.88	-0.03
4		T.B.-29A	1582.22	9.82	1572.40	12.96	12.85	0.11
4		T.B.-29B	1581.82	8.26	1573.56	8.36	8.48	-0.12
4		T.B.-30	1598.79	13.57	1585.22	16.89	16.75	0.14
2,3,4		T.B.-31	1620.77	13.17	1607.60	13.28	13.17	0.11
2,3,4		T.B.-31D	1624.10	22.85	1601.25	44.98	44.91	0.07
2,3,4		T.B.-33	1604.96	9.66	1595.30	14.32	14.26	0.06
2,3,4		T.B.-33B	1604.61	8.90	1595.71	20.24	20.28	-0.04
2,3,4		T.B.-35C	1620.53	22.05	1598.48	32.04	32.01	0.03
2,3,4		T.B.-35D	1620.99	9.02	1611.97	15.58	15.48	0.10
4		T.B.-36	1619.09	8.81	1610.28	13.47	13.41	0.06
4		T.B.-36A	1619.20	9.35	1609.85	18.98	18.85	0.13
2,3,4		T.B.-37	1589.44	11.92	1577.52	15.30	15.18	0.12
2,3,4		T.B.-37A	1589.37	28.03	1561.34	34.44	34.26	0.18
N		T.B.-38	1588.72	4.75	1583.97	12.54	12.49	0.05
N		T.B.-38A	1588.33	26.65	1561.68	27.39	27.35	0.04
2,3,4	Dry	T.B.-39A	1587.89	26.35	1561.54	26.46	26.35	0.11
2,3,4		T.B.-39B	1587.86	8.00	1579.86	11.82	11.76	0.06
2,3,4		T.B.-40	1582.52	9.01	1573.51	12.65	12.55	0.10
N		T.B.-40A	1582.42	22.85	1559.57	25.26	25.15	0.11
N		T.B.-41	1578.50	21.56	1556.94	21.72	21.62	0.10
2,3,4		T.B.-41A	1578.71	23.40	1555.31	30.32	30.10	0.22
2,3,4		T.B.-42	1569.07	16.77	1552.30	22.24	22.03	0.21
2,3,4		T.B.-42A	1567.59	14.30	1553.29	26.58	26.37	0.21
2,4		T.B.-43	1564.97	13.53	1551.44	15.28	15.08	0.20
2		T.B.-43A	1565.66	12.87	1552.79	25.03	24.93	0.10
2,3,4		T.B.-44	1570.22	19.84	1550.38	23.56	23.88	-0.32
2,3,4		T.B.-44A	1568.42	18.76	1549.66	31.02	30.84	0.18
2,3,4		T.B.-45	1571.71	15.10	1556.61	15.32	15.18	0.14
2,3,4		T.B.-45A	1572.06	16.35	1555.71	19.90	19.68	0.22
2,3,4		T.B.-46	1576.61	14.13	1562.48	17.69	17.80	-0.11
2,3,4		T.B.-47	1572.65	9.15	1563.50	9.19	9.15	0.04
2,3,4		T.B.-47A	1574.70	12.54	1562.16	18.70	18.73	-0.03
2,3,4	Dry Bailer Stuck	T.B.-48	1577.10	16.54	1560.56	16.46	16.54	-0.08
2,3,4		T.B.-48A	1576.80	18.65	1558.15	23.14	23.07	0.07
4		T.B.-49	1584.85	10.69	1574.16	14.38	14.16	0.22
2,3,4		T.B.-55	1608.44	13.82	1594.62	56.76	56.54	0.22
2,3,4		T.B.-55A	1608.90	13.94	1594.96	42.16	42.03	0.13
N		T.B.-55C	1608.56	30.75	1577.81	34.70	34.55	0.15
2,3,4	PVC cut 0.15 ft. 8/4/10	T.B.-55D	1614.76	10.27	1604.49	19.62	19.23	0.39
2,3,4		T.B.-68	1594.60	12.54	1582.06	30.26	30.34	-0.08
N		T.B.-69	1613.91	28.59	1585.32	31.52	31.42	0.10
2,3,4		T.B.-69A	1586.71	14.94	1571.77	44.70	44.83	-0.13
2,3,4		T.B.-70	1613.49	17.72	1595.77	35.84	35.78	0.06
N		T.B.-71	1671.15	70.14	1601.01	77.10	77.10	0.00
N		T.B.-71A	1672.29	3.96	1668.33	12.45	12.29	0.16
1,2,3,4	DRY	T.B.-73A	1556.33	12.34	1543.99	12.35	12.36	-0.01
1,2,3,4	DRY	T.B.-74	1544.78	17.31	1527.47	17.33	17.31	0.02
N		T.B.-87	1657.04	56.42	1600.62	57.91	57.90	0.01
2,3		T.B.-87A	1656.22	7.96	1648.26	13.14	13.24	-0.10
N		T.B.-81D	1674.89	56.70	1618.19	123.00	123.35	-0.35
N		T.B.-81R	1674.71	56.55	1618.16	78.12	78.29	-0.17
N		T.B.-81S	1675.13	4.61	1670.52	10.25	10.25	0.00
2,3,4		T.B.-93R	1665.78	47.06	1618.72	70.38	70.70	-0.32
2,3,4		T.B.-93S	1668.02	10.40	1657.62	10.45	10.50	-0.05
N		T.B.-91	1639.03	57.76	1581.27	129.00	129.01	-0.01
N		T.B.-91S	1640.39	13.14	1627.25	13.25	13.05	0.20
N		T.B.-90	1647.24	64.17	1583.07	137.00	137.08	-0.08
N		T.B.-90S	1647.93	9.65	1638.28	12.98	13.02	-0.04
2,3,4		T.B.-88	1605.65	14.99	1590.66	61.78	61.78	0.00
N		T.B.-88D	1605.42	27.21	1578.21	92.70	92.81	-0.11
2,3,4		T.B.-88S	1605.38	10.81	1594.57	12.24	12.24	0.00
2,3,4		T.B.-89	1635.64	57.58	1578.06	128.50	128.50	0.00
2,3,4		T.B.-89S	1634.99	12.13	1622.86	12.96	13.04	-0.08

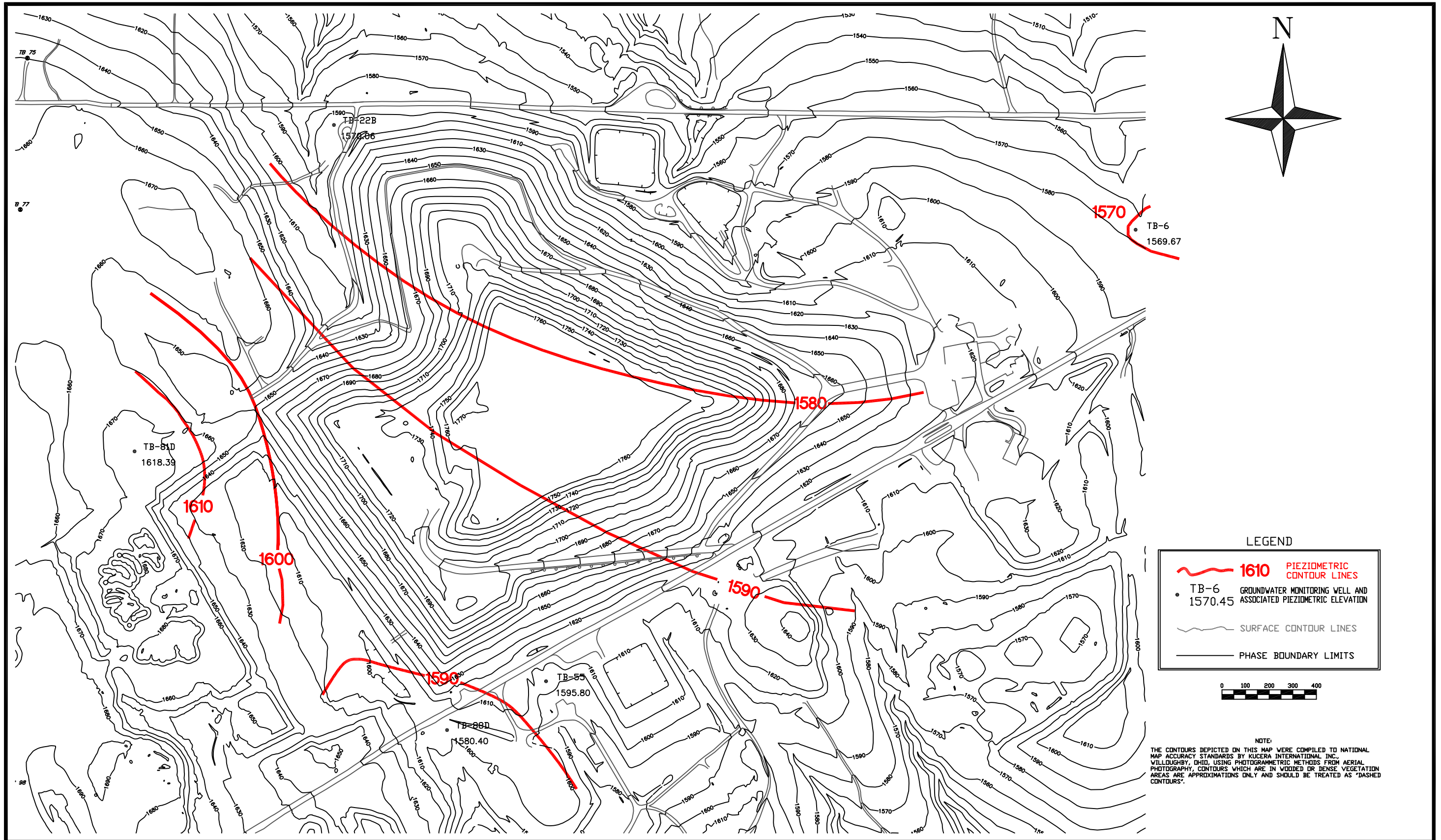
Qtrly Sampling:
- N — DENOTES WELLS CURRENTLY NOT IN SAMPLING PROGRAM.
- 1 — Wells sampled only 1st quarter.
- 2,4 — Wells sampled only 2nd and 4th quarters.
- 2,3,4 — Wells samples only in 2nd, 3rd, and 4th quarters.
- 3 — Wells sampled only 3rd quarter.

Notes:
- D — DENOTES WELL WAS DRY.
- F — DENOTES WELL WAS FROZEN.
- B — DENOTES WELL IS BROKEN.

ELEVATION BASED ON CCDPW CONSTRUCTION DATUM - B.M. @ N. MOHAWK POLE #46= 1621.80; USGS ELEVATION @ B.M.= 1623.15

#MEASUREING POINT FOR ALL ELEVATIONS IS THE TOP OF PVC
ALL MEASUREMENTS ARE TAKEN ADJACENT TO THE LOCKING HOLE ON THE PROTECTIVE STEEL CASING

Ref: I:\Private\Engineer\CAD\MDF\GroundWaterWells.dwg



No	DATE	DESCRIPTION	No	DATE	DESCRIPTION

REVISIONS

I:\Landfill\Private\Engineer\2023 QTLY\Q_23-Qtrly.dwg

DESIGNED BY:
DRAWN BY: C.P.R
CHECKED BY: C.R.D
PROJ. MGR.: B.A.M

Chautauqua County DPF/DSW
3889 Towerville Road
Jamestown, New York 14701

CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

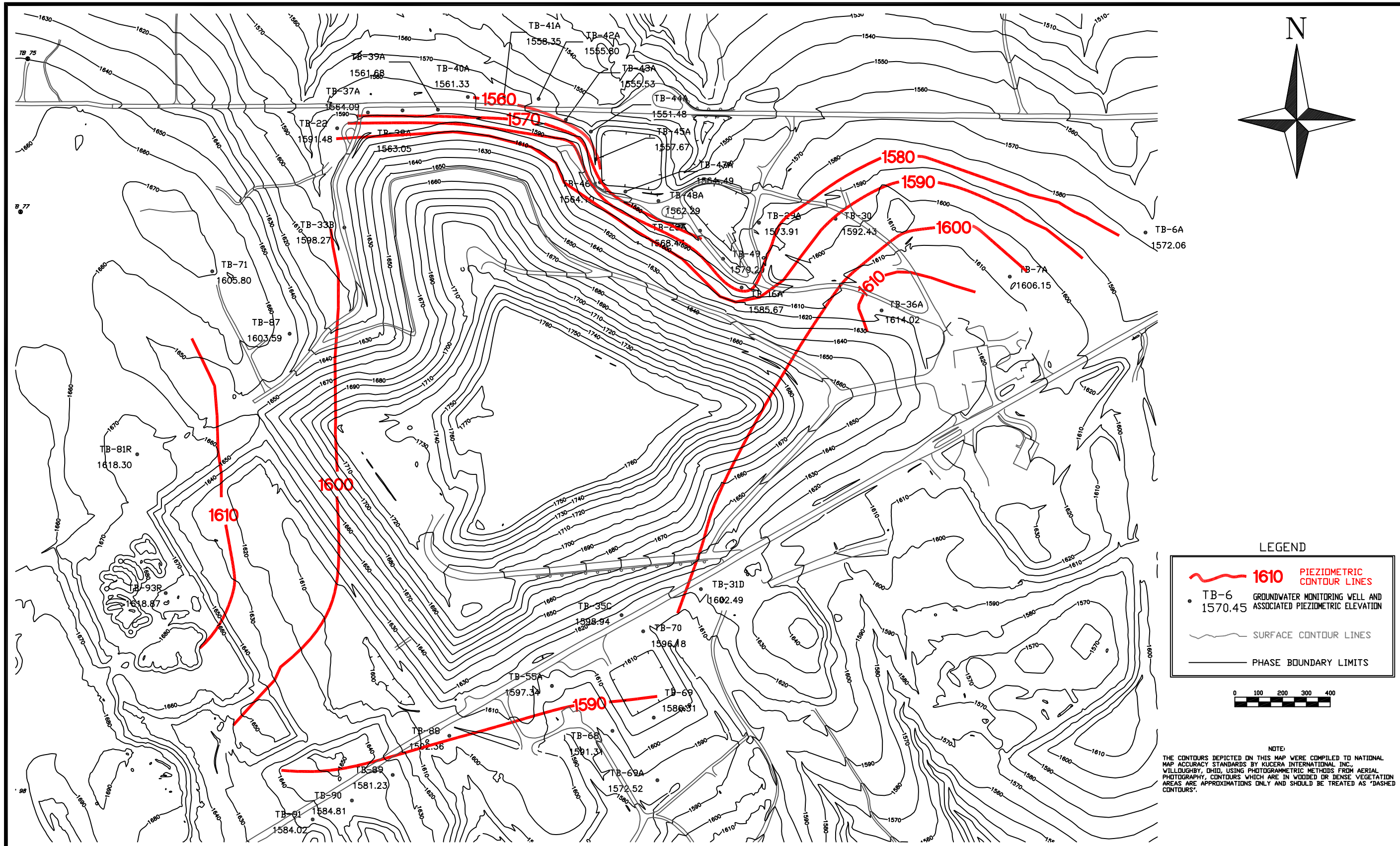
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL

1st. Quarter

COMPETENT BEDROCK ZONE

SCALE: 1" = 400' | 3/34/23



LEGEND

1610	PIEZIOMETRIC CONTOUR LINES
TB-6 1570.45	GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION
	SURFACE CONTOUR LINES
	PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
THE CONTOURS DEPICTED ON THIS MAP WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY KUCERA INTERNATIONAL INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION AREAS ARE APPROXIMATIONS ONLY AND SHOULD BE TREATED AS "DASHED CONTOURS".

No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

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Chautauqua County DPF/DSW
3889 Towerville Road
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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
1 st. Quarter

FRACTURED UPPER BEDROCK ZONE

SCALE: 1" = 400' | 3/24/23

N

TB-38 1587.27
TB-40 1580.01
TB-41 1561.97
TB-37 1587.24
TB-42 1559.58
TB-74 1530.78
TB-22A 1591.73
TB-43 1569.07
TB-39B 1585.36
TB-44 1554.81
TB-73A 1545.18
TB-45 1556.52
TB-33 1598.27
TB-47 1568.63
TB-48 1574.10
TB-29B 1578.02
TB-71A 1667.98
TB-15D 1584.95
TB-7 1605.97
TB-36 1615.09
TB-87A 1652.31
TB-81S 1672.26
TB-93S 1663.77
TB-9A 1601.71
TB-31 1617.48
TB-35D 1616.44
TB-55D 1608.32
TB-18A 1616.04
TB-88S 1596.27
TB-89S 1631.73
TB-90S
TB-91S 1645.18
1633.58

1530 1540 1550 1560 1570 1580 1590 1600 1610 1620 1630 1640 1650 1660 1670

LEGEND

1610	PIEZIOMETRIC CONTOUR LINES
TB-6 1570.45	GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION
	SURFACE CONTOUR LINES
	PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
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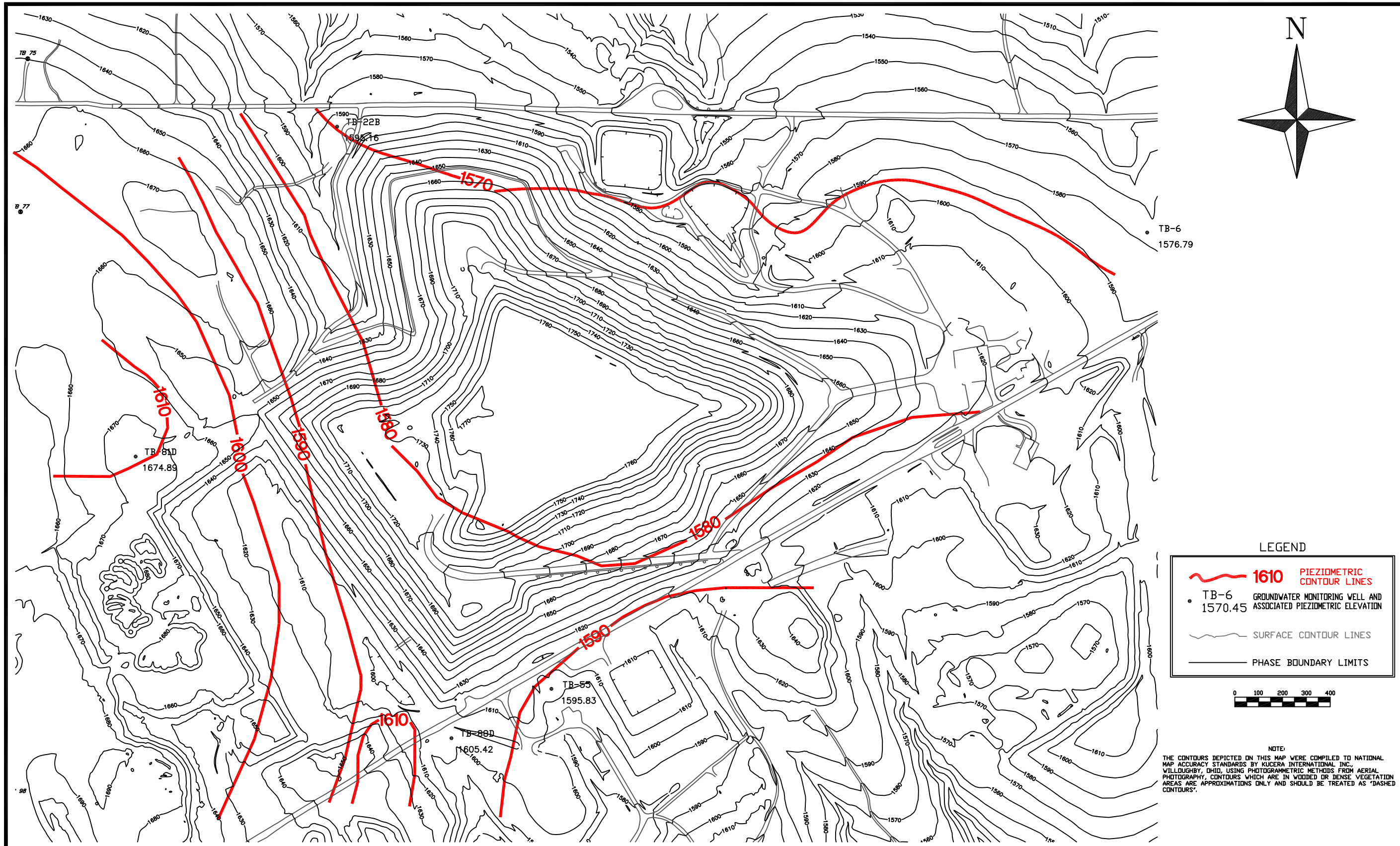
CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
1st. Quarter

SHALLOW OVERBURDEN ZONE

SCALE: 1" = 400' | 3/24/23



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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL

2nd Quarter

COMPETENT BEDROCK ZONE

SCALE: 1" = 400' | 5/12/23

N

TB-41A 1558.71
TB-42A 1556.09
TB-43A 1565.66
TB-44A 1554.41
TB-45A 1557.92
TB-47A 1564.71
TB-46 1564.63
TB-48A 1563.22
TB-39A 1562.90
TB-40A 1582.42
TB-37A 1562.54
TB-23 1595.91
TB-38A 1586.33
TB-33B 1599.27
TB-71 1671.15
TB-87 1657.04
TB-81R 1674.71
TB-93R 1618.95
TB-28A 1567.98
TB-29A 1573.58
TB-30 1592.89
TB-6A 1578.39
TB-7A 1605.97
TB-36A 1614.19
TB-15A 1685.48
TB-31D 1662.61
TB-35C 1599.10
TB-70 1595.91
TB-55A 1597.40
TB-69 1613.91
TB-88 1592.37
TB-89 1581.69
TB-90 1647.24
TB-91 1639.03
TB-69A 1572.62

1560 1570 1580 1590 1600 1610

LEGEND

1610 PIEZIOMETRIC CONTOUR LINES

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
THE CONTOURS DEPICTED ON THIS MAP WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY KUCERA INTERNATIONAL INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION AREAS ARE APPROXIMATIONS ONLY AND SHOULD BE TREATED AS 'DASHED CONTOURS'.

No	DATE	DESCRIPTION	No	DATE	DESCRIPTION

REVISIONS

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Chautauqua County DPF/DSW
3889 Towerville Road
Jamestown, New York 14701

CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
2nd Quarter

FRACTURED UPPER BEDROCK ZONE

SCALE: 1" : 400' | 5/812/23

N

LEGEND

1610 PIEZIOMETRIC CONTOUR LINES

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
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No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

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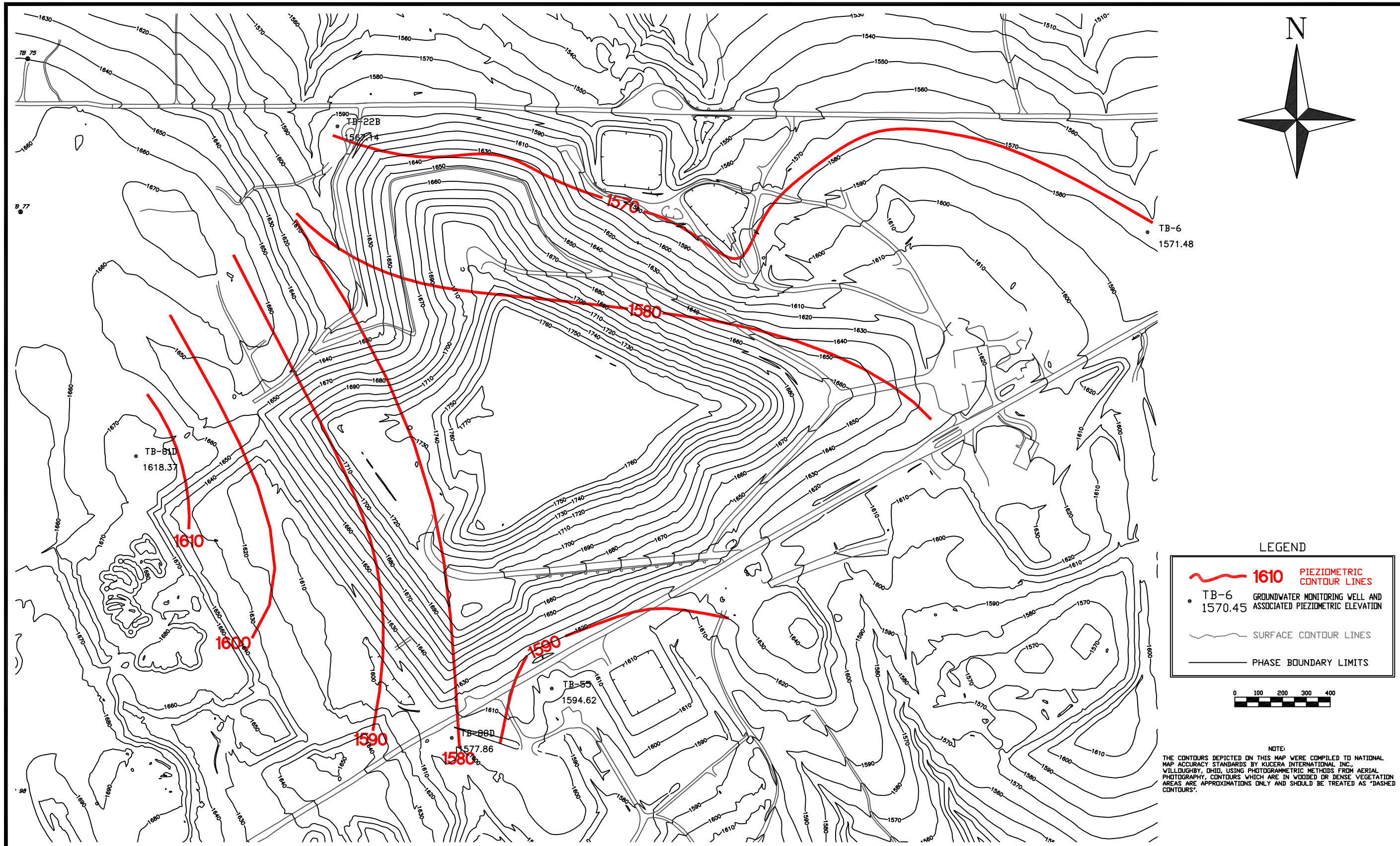
CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
2rd Quarter

SHALLOW OVERBURDEN ZONE

SCALE: 1" : 400'

05/12/23



LEGEND

1610 PIEZIOMETRIC CONTOUR LINES

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
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Chautauqua County DPF/DSW
3889 Towerville Road
Jamestown, New York 14701

CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
3rd.Quarter

COMPETENT BEDROCK ZONE

SCALE: 1" = 400' | 9/20/23

N

TB-41A 1556.58
TB-42A 1554.02
TB-43A 1553.57
TB-44A 1551.83
TB-45A 1556.87
TB-47A 1563.17
TB-46 1563.66
TB-48A 1557.60
TB-39A 1561.54
TB-40A 1559.78
TB-37A 1562.28
TB-23 1578.73
TB-38A 1561.94
TB-33R 1597.29
TB-71 1601.21
TB-87 1602.62
TB-81R 1618.41
TB-93R 1657.88
TB-28A 1575.28
TB-29A 1572..75
TB-30 1587.17
TB-43 1575.55
TB-6A 1574.48
TB-7A 1600.70
TB-16A 1582.24
TB-196A 1611.38
TB-31D 1600.88
TB-35C 1598.73
TB-70 1595.82
TB-55A 1596.71
TB-69 1585.32
TB-88 1591.05
TB-68 1581.95
TB-89 1578.94
TB-69A 1572.43
TB-90 1582.14
TB-91 1581.09

1560 1570 1580 1590 1610 1600 1590 1610 1580 1590 1610

LEGEND

1610 PIEZIOMETRIC CONTOUR LINES

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
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No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

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Jamestown, New York 14701

CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
3 rd.Quarter

FRACTURED UPPER BEDROCK ZONE

SCALE: 1" : 400' | 9/20/23

N

LEGEND

1610 PIEZIOMETRIC CONTOUR LINES

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
THE CONTOURS DEPICTED ON THIS MAP WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY KUCERA INTERNATIONAL INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION AREAS ARE APPROXIMATIONS ONLY AND SHOULD BE TREATED AS "DASHED CONTOURS".

No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

REVISIONS

I:\Landfill\Private\Engineer\2023 QTLY\Q_23-Qtrly.dwg

DESIGNED BY:
DRAWN BY: C.P.R
CHECKED BY: C.R.D
PROJ. MGR.: B.A.M

Chautauqua County DPF/DSW
3889 Towerville Road
Jamestown, New York 14701

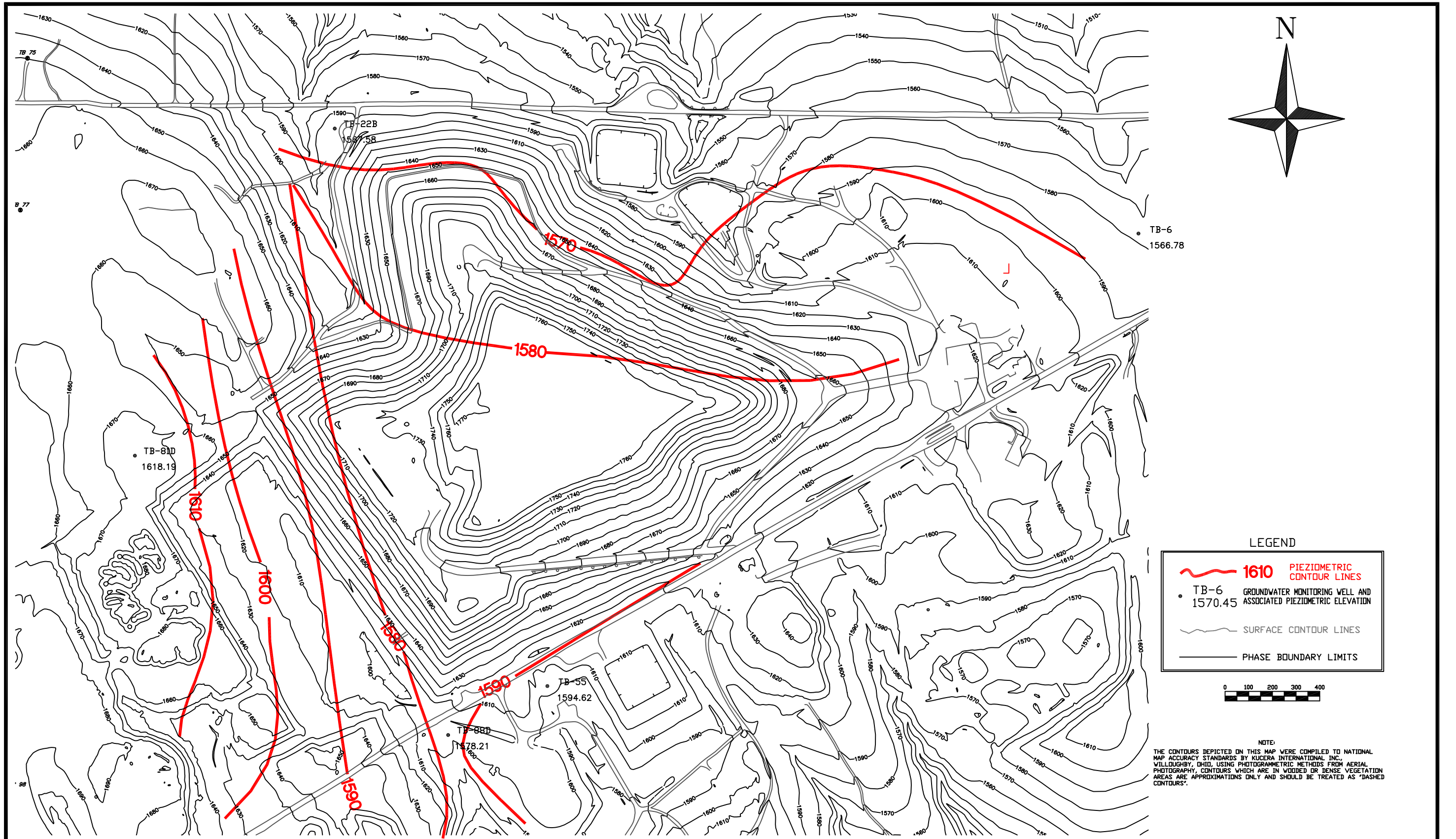
CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
3rd.Quarter

SHALLOW OVERBURDEN ZONE

SCALE: 1" = 400'

9/20/23



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REVISIONS

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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

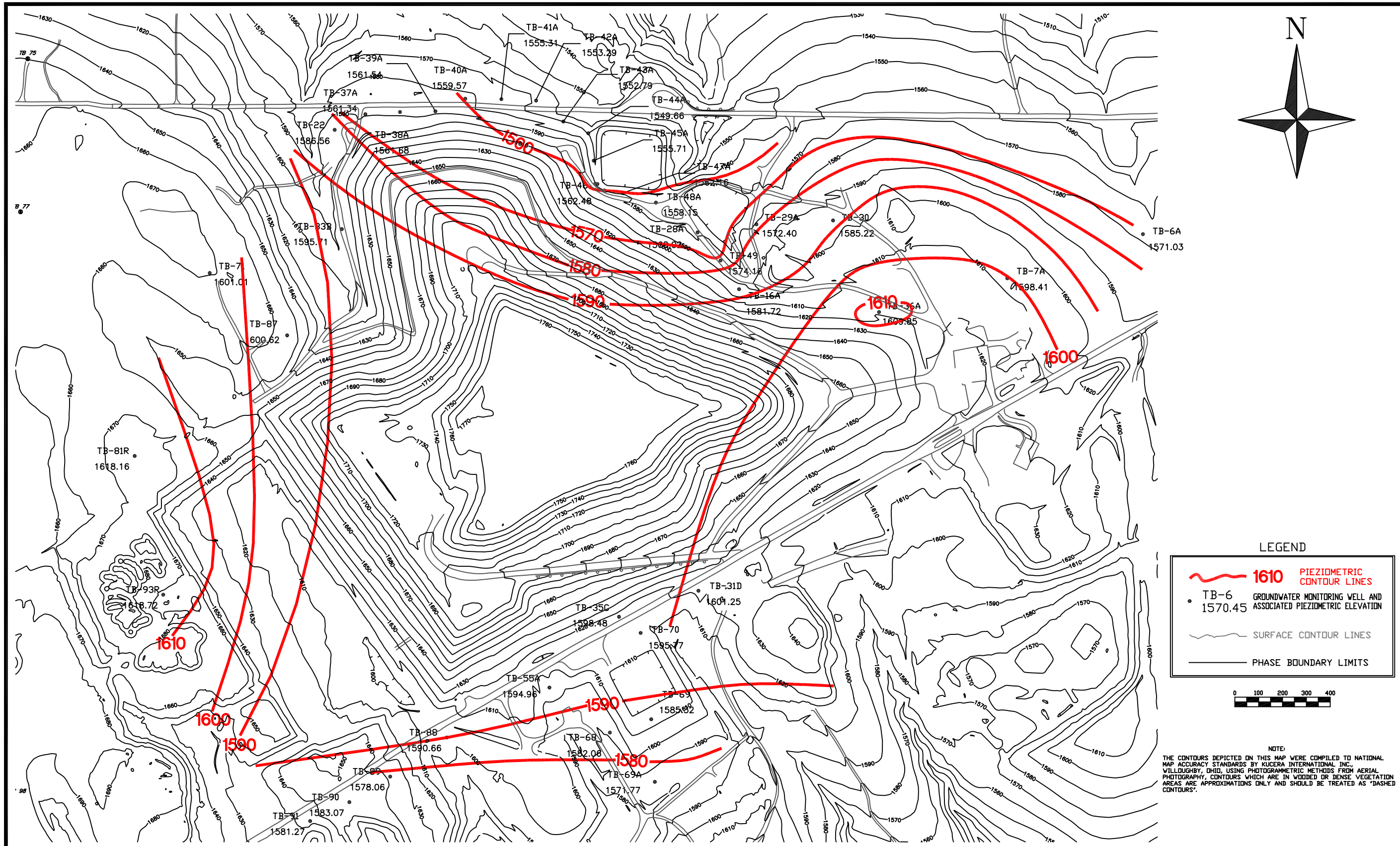
CHAUTAUQUA COUNTY LANDFILL

4TH

COMPETENT BEDROCK ZONE

SCALE: 1" = 400'

12/11/23



No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

REVISIONS

I:\Landfill\Private\Engineer\2023 QTLY\Q_23-Qtrly.dwg

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Chautauqua County DPF/DSW
3889 Towerville Road
Jamestown, New York 14701

CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

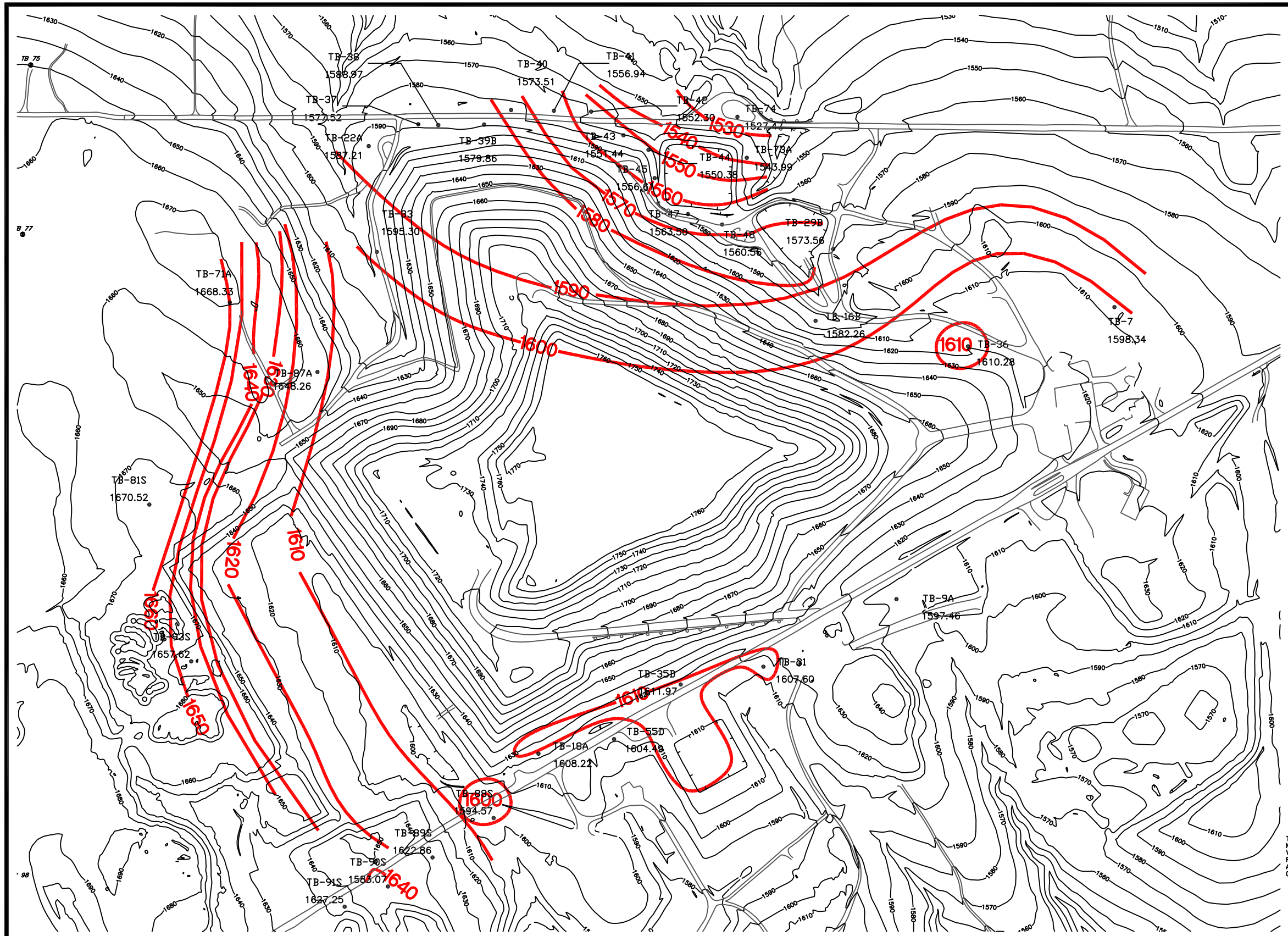
CHAUTAUQUA COUNTY LANDFILL

4th

FRACTURED UPPER BEDROCK ZONE

SCALE: 1" = 400'

12/11/23



No.	DATE	DESCRIPTION	No.	DATE	DESCRIPTION

REVISIONS

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Chautauqua County DPF/DSW
3889 Towerville Road
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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE

CHAUTAUQUA COUNTY LANDFILL

ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL

4TH

SHALLOW OVERBURDEN ZONE

SCALE: 1" = 400'

12/11/2023

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
a.)
VOLUME OF LEACHATE COLLECTED FROM PHASE I, II, & III -
PRIMARY AND SECONDARY COLLECTION SYSTEMS

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Pri = 14.0 acres		Sec = 3.25 acres		PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SECOND ARY PUMP 1	GPD X1
31-Dec-22		304,450 *	0	148,567 *	0	66,116 *	0	546,905 *	0	0	934,077 *	0	157,635 *	0	43,919 *	0	0 *	0	957,613 *	0	5,611 *	0	6,153,372.00 *	0	4946244 *	0	97,568 *	0
1-Jan-23	0.17	313,706 *	9,256	148,651 *	18,900	66,668 *	552	548,386 *	1,481	929	678,466 *	-255,611	157,635 *	0	44,127 *	2,080	0 *	0	962,007 *	4,394	5,713 *	102	6,171,772.00 *	18400	4962307 *	16063	97,677 *	109
2-Jan-23	0.03	322,962 *	9,256	148,735 *	18,900	67,220 *	552	549,867 *	1,481	929	422,855 *	-255,611	157,635 *	0	44,335 *	2,080	0 *	0	966,401 *	4,394	5,815 *	102	6,190,172.00 *	0	4978370 *	16063	97,786 *	0
3-Jan-23	0.01	332,219	9,257	148,820	19,125	67,773	553	551,349	1,482	929	167,243	-255,612	157,635	0	44,542	2,070	0	0	970,796	4,395	5,918	103	6,208,572.00	18400	4994432	16062	97895	109
4-Jan-23	0.56	341,428	9,209	148,898	17,550	68,232	459	552,461	1,112	653	765,552	598,309	157,635	0	45,313	7,710	0	0	974,522	3,726	6,005	87	6,239,528.00	30956	5021451	27019	97895	0
5-Jan-23	0.39	348,910	7,482	148,988	20,250	68,758	526	555,349	2,888	2,362	885,120	119,568	157,635	0	45,623	3,100	0	0	978,554	4,032	6,090	85	6,283,888.00	44360	5067308	45857	97895	0
6-Jan-23	0.09	356,644	7,734	149,050	13,950	69,284	526	558,016	2,667	2,141	885,192	72	157,635	0	45,954	3,310	0	0	982,162	3,608	6,199	109	6,310,193.00	26305	5082150	14842	98203	308
7-Jan-23	0.08	363,239 *	6,595	149,130 *	18,000	69,690 *	406	558,757 *	741	335	885,252 *	60	157,755 *	120	46,208 *	2,540	0 *	0	985,248 *	3,086	6,305 *	106	6,315,996.00 *	5803	5089486 *	7336	98420 *	217
8-Jan-23	0.00	369,834 *	6,595	149,210 *	18,000	70,096 *	406	559,498 *	741	335	885,312 *	60	157,875 *	120	46,462 *	2,540	0 *	0	988,334 *	3,086	6,411 *	106	6,321,799.00 *	5803	5096822 *	7336	98,637 *	217
9-Jan-23	0.03	376,428	6,594	149,290	18,000	70,503	407	560,238	740	333	885,372	60	157,995	120	46,715	2,530	0	0	991,419	3,085	6,517	106	6,327,601.00	5802	5104159	7337	98,854	217
10-Jan-23	0.00	382,867	6,439	149,338	10,800	70,852	349	560,905	667	318	885,444	72	158,103	108	46,925	2,100	0	0	994,495	3,076	6,625	108	6,334,300.00	6699	5109913	5754	98854	0
11-Jan-23	0.00	388,910	6,043	149,391	11,925	71,156	304	561,572	667	363	885,516	72	158,175	72	47,135	2,100	0	0	997,481	2,986	6,710	85	6,340,486.00	6186	5115111	5198	99168	314
12-Jan-23	T	393,982	5,072	149,442	11,475	71,482	326	562,016	444	118	885,588	72	158,283	108	47,354	2,190	0	0	1,000,538	3,057	6,806	96	6,346,097.00	5611	5119637	4526	99485	317
13-Jan-23	0.77	402,579	8,597	149,505	14,175	71,874	392	563,572	1,556	1,164	885,660	72	158,390	107	47,579	2,250	0	0	1,004,577	4,039	6,890	84	6,376,793.00	30696	5155395	35758	99485	0
14-Jan-23	0.02	408,964 *	6,385	149,561 *	12,600	72,272 *	398	564,683 *	1,111	713	885,714 *	54	158,507 *	117	47,801 *	2,220	0 *	0	1,008,053 *	3,476	6,982 *	92	6,387,679.00 *	10886	5165003 *	9608	99650 *	165
15-Jan-23	0.01	415,349 *	6,385	149,617 *	12,600	72,670 *	398	565,794 *	1,111	713	885,768 *	54	158,624 *	117	48,023 *	2,220	0 *	0	1,011,529 *	3,476	7,074 *	92	6,398,565.00 *	10886	5174611 *	9608	99,815 *	165
16-Jan-23	0.00	421,734 *	6,385	149,673 *	12,600	73,068 *	398	566,905 *	1,111	713	885,822 *	54	158,741 *	117	48,245 *	2,220	0 *	0	1,015,005 *	3,476	7,166 *	92	6,409,451.00 *	10886	5184219 *	9608	99,980 *	165
17-Jan-23	0.11	428,119	6,385	149,729	12,600	73,467	399	568,016	1,111	712	885,876	54	158,858	117	48,467	2,220	0	0	1,018,481	3,476	7,258	92	6,420,336.00	10885	5193825	9606	100,143	163
18-Jan-23	0.19	435,708	7,589	149,793	14,400	73,836	369	568,683	667	298	886,271	59	158,966	108	48,738	2,710	0	0	1,022,173	3,692	7,353	95	6,430,742.00	10406	5202510	8685	100467	324
19-Jan-23	0.29	443,047	7,339	149,854	13,725	74,229	393	569,572	889	496	886,307	64	159,074	108	49,006	2,680	0	0	1,025,966	3,793	7,439	86	6,445,517.00	14775	5216760	14250	100788	321
20-Jan-23	0.82	452,219	9,172	149,935	18,225	74,711	482	573,794	4,222	3,740	886,379	69	159,182	108	49,357	3,510	0	0	1,030,148	4,182	7,537	98	6,493,749.00	48232	5273616	56856	100816	28
21-Jan-23	0.10	459,329 *	7,110	149,986 *	11,475	75,163 *	452	574,979 *	1,185	733	886,451 *	72	159,302 *	120	49,632 *	2,750	0 *	0	1,033,983 *	3,835	7,646 *	109	6,509,200.00 *	15451	5286373 *	12757	101039 *	223
22-Jan-23	M	466,439 *	7,110	150,037 *	11,475	75,615 *	452	576,164 *	1,185	733	886,523 *	72	159,422 *	120	49,907 *	2,750	0 *	0	1,037,818 *	3,835	7,755 *	109	6,524,651.00 *	15451	5299130 *	12757	101,262 *	223
23-Jan-23	0.17	473,550	7,111	150,088	11,475	76,067	452	577,349	1,185	733	886,595	72	159,542	120	50,182	2,750	0	0	1,041,652	3,834	7,865	110	6,540,102.00	15451	5311887	12757	101,484	222
24-Jan-23	T	480,205	6,655	150,134	10,350	76,438	371	578,016	667	296	886,631	36	159,614	72	50,414	2,320	0	0	1,045,194	3,542	7,974	109	6,547,764.00	7662	5318537	6650	101740	256
25-Jan-23	0.03	487,795	7,590	150,183	11,025	76,785	347	578,683	667	320	886,703	72	159,757	143	50,698	2,840	0	0	1,049,652	4,458	8,081	107	6,560,972.00	13208	5330228	11691	102176	436
26-Jan-23	0.48	493,011	5,216	150,227	9,900	77,047	262	579,349	666	404	886,775	72	159,829	72	50,880	1,820	0	0	1,052,536	2,884	8,166	85	6,567,440.00	6468	5335801	5573	102176	0
27-Jan-23	0.11	499,593	6,582	150,274	10,575	77,374	327	580,238	889	562	886,991	216	159,937	108	51,098	2,180	0	0	1,056,160	3,624	8,252	86	6,589,483.00	22043	5342306	6505	102176	0
28-Jan-23	T	504,785 *	5,192	150,331 *	12,825	77,701 *	327	580,831 *	593	266	886,991 *	0	160,045 *	108	51,363 *	2,650	0 *	0	1,059,994 *	3,834	8,333 *	81	6,595,646.00 *	6163	5346949 *	4643	102401 *	225
29-Jan-23	T	509,977 *	5,192	150,388 *	12,825	78,028 *	327	581,424 *	593	266	886,991 *	0	160,153 *	108	51,628 *	2,650	0 *	0	1,063,828 *	3,834	8,414 *	81	6,601,809.00 *	6163	5351592 *	4643	102,626 *	225
30-Jan-23	0.15	515,169	5,192	150,444	12,600	78,356	328	582,016	592	264	886,991	0	160,261	108	51,893	2,650	0	0	1,067,663	3,835	8,496	82	6,607,973.00	6164	5356235	4643	102,850	224
31-Jan-23	0.15	521,644	6,475	150,499	12,375	78,727	371	583,127	1,111	740	886,991	0	160,369	108	52,177	2,840	0	0	1,071,695	4,032	8,568	72	6,621,475.00	13502	5368811	12576	102850	0
1-Feb-23																												
MONTHLY Σ	4.76	217,194		434,700		12,611		36,222		23,611	-47,397		2,734		82,580		0		114,082		2,957			464257				5,173
AVE. LEAK RATE GALLONS/ ACRE/DAY						13.2				19.6							0.0				29.3							11.4

Notes Landfill rain gauge is not heated. Rainfall data in winter months are from weather.com for zip code 14701.

TOTAL GALLONS GENERATED					
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	PHASE IV	ENTIRE LANDFILL
217,194	447,311	37,917	117,039	469,430	819,461

N Note: Phase 1 expansion strainer had a blockage. Put on bypass and was flowing freely.
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPDx1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRI x1	GPD x1	PRI x2	GPD x1	SEC x1	GPD x1
31-Jan-23		521,644		150,499		78,727		583,127			886,991		160,369		52,177		0	0	1,071,695		8,568		6621475		5368811		102850	
1-Feb-23	0.01	528,514	6,870	150,550	11,475	79,120	393	583,794	667	274	890,552	3,561	160,477	108	52,432	2,550	0	0	1,075,680	3,985	8,652	84	6,631,663	10188	5,379,537	10726	103186	336
2-Feb-23	T	535,241	6,727	150,596	10,350	79,447	327	584,461	667	340	890,552	0	160,585	108	52,680	2,480	0	0	1,079,596	3,916	8,738	86	6,639,707	8044	5,389,239	9702	103186	0
3-Feb-23	0.10	541,536	6,295	150,643	10,575	79,714	267	585,127	666	399	890,552	0	160,693	108	52,919	2,390	0	0	1,083,659	4,063	8,824	86	6,647,087	7380	5,397,507	8268	103529	343
4-Feb-23	0.13	547,147 *	5,611	150,689 *	10,350	79,981 *	267	585,572 *	445	178	890,612 *	60	160,789 *	96	53,112 *	1,930	0 *	0	1,087,357 *	3,698	8,901 *	77	6,653,110 *	6023	5,405,256 *	7749	103645 *	116
5-Feb-23	0.00	552,758 *	5,611	150,735 *	10,350	80,248 *	267	586,017 *	445	178	890,672 *	60	160,885 *	96	53,305 *	1,930	0 *	0	1,091,055 *	3,698	8,978 *	77	6,659,133 *	6023	5,413,005 *	7749	103761 *	116
6-Feb-23	T	558,370	5,612	150,780	10,125	80,514	266	586,461	444	178	890,732	60	160,980	95	53,499	1,940	0	0	1,094,752	3,697	9,055	77	6,665,155	6022	5,420,753	7748	103877	116
7-Feb-23	0.00	564,126	5,756	150,834	12,150	80,862	348	587,127	666	318	890,804	72	161,088	108	53,718	2,190	0	0	1,098,506	3,754	9,129	74	6,670,746	5591	5,425,630	4877	104235	358
8-Feb-23	0.00	570,673	6,547	150,908	16,650	81,190	328	588,016	889	561	890,840	36	161,160	72	53,912	1,940	0	0	1,101,856	3,350	9,201	72	6,680,887	10141	5,434,571	8941	104235	0
9-Feb-23	0.17	575,169	4,496	150,968	13,500	81,518	328	588,683	667	339	890,876	36	161,304	144	54,075	1,630	0	0	1,104,076	2,220	9,275	74	6,701,363	20476	5,458,039	23468	104235	0
10-Feb-23	0.40	584,162	8,993	151,100	29,700	81,956	438	589,794	1,111	673	890,912	36	161,412	108	54,464	3,890	0	0	1,106,893	2,817	9,348	73	6,765,571	64208	5,529,923	71884	104604	369
11-Feb-23	0.02	591,008 *	6,846	151,151 *	11,475	82,365 *	409	591,498 *	1,704	1,295	890,948 *	36	161,520 *	108	54,759 *	2,950	0 *	0	1,110,734 *	3,841	9,422 *	74	6,782,624 *	17053	5,545,883 *	15960	104723 *	119
12-Feb-23	0.00	597,854 *	6,846	151,202 *	11,475	82,774 *	409	593,202 *	1,704	1,295	890,984 *	36	161,628 *	108	55,054 *	2,950	0 *	0	1,114,575 *	3,841	9,496 *	74	6,799,677 *	17053	5,561,843 *	15960	104,842 *	119
13-Feb-23	0.00	604,701	6,847	151,253	11,475	83,183	409	594,905	1,703	1,294	891,019	35	161,736	108	55,350	2,960	0	0	1,118,417	3,842	9,569	73	6,816,731	17054	5,577,804	15961	104,961	119
14-Feb-23	0.00	611,104	6,403	151,313	13,500	83,532	349	595,349	444	95	891,019	0	161,844	108	55,620	2,700	0	0	1,122,222	3,805	9,677	108	6,824,838	8107	5,584,085	6261	105271	310
15-Feb-23	0.00	617,219	6,115	151,354	9,225	83,793	261	596,016	667	406	891,019	0	161,916	72	55,807	1,870	0	0	1,125,271	3,049	9,740	63	6,830,947	6109	5,588,802	4717	105271	0
16-Feb-23	0.00	623,155	5,936	151,396	9,450	84,032	239	596,683	667	428	891,019	0	162,024	108	56,113	3,060	0	0	1,128,758	3,487	9,826	86	6,837,349	6402	5,593,702	4900	105624	353
17-Feb-23	0.05	628,514	5,359	151,442	10,350	84,250	218	597,349	666	448	891,955	936	162,131	107	56,330	2,170	0	0	1,132,296	3,538	9,898	72	6,843,097	5748	5,598,033	4331	105624	0
18-Feb-23	0.05	634,225 *	5,711	151,486 *	9,900	84,435 *	185	597,794 *	445	260	891,964 *	9	162,239 *	108	56,549 *	2,190	0 *	0	1,136,137 *	3,841	9,971 *	73	6,848,160 *	5063	5,602,219 *	4186	105792 *	168
19-Feb-23	0.00	639,936 *	5,711	151,530 *	9,900	84,620 *	185	598,239 *	445	260	891,973 *	9	162,347 *	108	56,768 *	2,190	0 *	0	1,139,978 *	3,841	10,044 *	73	6,853,223 *	5063	5,606,405 *	4186	105,960 *	168
20-Feb-23	0.00	645,647 *	5,711	151,574 *	9,900	84,805 *	185	598,684 *	445	260	891,982 *	9	162,455 *	108	56,987 *	2,190	0 *	0	1,143,819 *	3,841	10,117 *	73	6,858,286 *	5063	5,610,591 *	4186	106,128 *	168
21-Feb-23	0.00	651,356	5,709	151,619	10,125	84,988	183	599,127	443	260	891,991	9	162,563	108	57,207	2,200	0	0	1,147,660	3,841	10,190	73	6,863,347	5061	5,614,778	4187	106,295	167
22-Feb-23	0.01	656,499	5,143	151,667	10,800	85,139	151	599,571	444	293	891,991	0	162,634	71	57,410	2,030	0	0	1,151,293	3,633	10,263	73	6,868,141	4794	5,618,708	3930	106634	339
23-Feb-23	1.15	663,765	7,266	151,729	13,950	85,357	218	600,238	667	449	891,991	0	162,742	108	57,608	1,980	0	0	1,155,049	3,756	10,337	74	6,884,650	16509	5,641,355	22647	106634	0
24-Feb-23	0.04	671,355	7,590	151,790	13,725	85,707	350	603,571	3,333	2,983	891,991	0	162,850	108	57,809	2,010	0	0	1,159,337	4,288	10,412	75	6,907,223	22573	5,658,830	17475	106634	0
25-Feb-23	0.01	679,053 *	7,698	151,837 *	10,575	86,041 *	334	604,238 *	667	333	892,027 *	36	162,958 *	108	58,016 *	2,070	0 *	0	1,163,200 *	3,863	10,482 *	70	6,915,729 *	8506	5,666,658 *	7828	106755 *	121
26-Feb-23	0.01	686,751 *	7,698	151,884 *	10,575	86,375 *	334	604,905 *	667	333	892,063 *	36	163,066 *	108	58,223 *	2,070	0 *	0	1,167,063 *	3,863	10,552 *	70	6,924,235 *	8506	5,674,486 *	7828	106,876 *	121
27-Feb-23	0.00	694,449	7,698	151,932	10,800	86,710	335	605,571	666	331	892,098	35	163,174	108	58,431	2,080	0	0	1,170,925	3,862	10,621	69	6,932,742	8507	5,682,313	7827	106,996	120
28-Feb-23	0.69	702,362	7,913	151,991	13,275	87,038	328	606,460	889	561	892,098	0	163,282	108	58,645	2,140	36	36	1,174,751	3,826	10,695	74	6,955,840	23098	5,715,708	33395	107412	416
										0																		
										0																		
MONTHLY Σ	2.84		180,718		335,700		8,311		23,333	15,022		5,107		2,913		64,680		36		103,056		2,127		334365		346897		4562
AVE. LEAK RATE GALLONS/ ACRE/DAY							9.6							23.1				0.1				23.4						11.1

Note Landfill rain gauge is not heated. Rainfall data in winter months are from weather.com for zip code 14701.

N Note: Phase 1 expansion strainer had a blockage. Put on bypass and was flowing freely.
⇐ Metering mechanism malfunction.
Values shown are from.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

Total Galons Generated

PHASE I	PHASE II	PHASE III	PHASE 1 EXP	PHASE IV	TOTAL
180,718	344,011	72,736	449,219	351,459	1,398,143

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x 225	GPDx1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRI x1	GPD x1	PRI x2	GPD x1	SEC x1	GPD x1
28-Feb-23		702,362		151,991		87,038		606,460			892,098		163,282		58,645		36		1,174,751		10,695		6,955,840		5,715,708		107,412	
1-Mar-23	0.02	712,650	10,288	152,054	14,175	87,431	393	607,793	1,333	940	892,098	0	163,426	144	58,869	2,240	227	191	1,179,063	43,120	10,782	87	6,978,713	22873	5,734,439	18731	107,412	0
2-Mar-23	0.00	723,765	11,115	152,101	10,575	87,803	372	608,682	889	517	892,098	0	163,534	108	59,103	2,340	227	0	1,182,863	38,000	10,855	73	6,988,936	10223	5,743,480	9041	107,412	0
3-Mar-23	0.00	737,470	13,705	152,146	10,125	88,129	326	610,682	2,000	1,674	892098	0	163,642	108	59,333	2,300	413	186	1,186,555	36,920	10,929	74	6,995,788	6852	5,749,329	5849	107,739	327
4-Mar-23	0.73	756,415 *	18,945	152,207 *	13,725	88,523 *	394	611,497 *	815	421	904808 *	12,710	163,750 *	108	59,606 *	2,730	475 *	62	1,190,734 *	41,790	11,012 *	83	7,019,285 *	23497	5,770,211 *	20882	107,854 *	115
5-Mar-23	0.30	775,360 *	18,945	152,268 *	13,725	88,917 *	394	612,312 *	815	421	917,518 *	12,710	163,858 *	108	59,879 *	2,730	537 *	62	1,194,913 *	41,790	11,095 *	83	7,042,782 *	23497	5,791,093 *	20882	107,969 *	115
6-Mar-23	0.00	794,305	18,945	152,328	13,500	89,310	393	613,126	814	421	930,228	12,710	163,965	107	60,152	2,730	599	62	1,199,093	41,800	11,179	84	7,066,278	23496	5,811,976	20883	108,085	116
7-Mar-23	0.53	808,370	14,065	152,374	10,350	89,703	393	615,349	2,223	1,830	930,228	0	164,073	108	60,444	2,920	789	190	1,203,219	41,260	11,253	74	7,079,213	12935	5,823,648	11672	108,417	332
8-Mar-23	0.00	819,377	11,007	152,430	12,600	90,097	394	617,349	2,000	1,606	930,264	36	164,217	144	60,766	3,220	789	0	1,207,509	42,900	11,355	102	7,091,843	12630	5,835,310	11662	108,417	0
9-Mar-23	0.00	829,089	9,712	152,517	19,575	90,490	393	618,015	666	273	930,264	0	164,325	108	61,078	3,120	977	188	1,211,671	41,620	11,442	87	7,103,136	11293	5,845,893	10583	108,770	353
10-Mar-23	0.00	838,729	9,640	152,572	12,375	90,862	372	618,904	889	517	930,300	36	164,433	108	61,334	2,560	1,165	188	1,215,662	39,910	11,530	88	7,112,397	9261	5,854,566	8673	108,770	0
11-Mar-23	0.53	846,895 *	8,166	152,621 *	11,025	91,197 *	335	619,645 *	741	406	930,300 *	0	164,541 *	108	61,601 *	2,670	1,229 *	64	1,219,551 *	38,890	11,617 *	87	7,119,418 *	7021	5,860,917 *	6351	109,003 *	233
12-Mar-23	0.00	855,061 *	8,166	152,670 *	11,025	91,532 *	335	620,386 *	741	406	930,300 *	0	164,649 *	108	61,868 *	2,670	1,293 *	64	1,223,440 *	38,890	11,704 *	87	7,126,439 *	7021	5,867,268 *	6351	109,236 *	233
13-Mar-23	0.00	863,226	8,165	152,720	11,250	91,867	335	621,126	740	405	930,300	0	164,757	108	62,135	2,670	1,357	64	1,227,330	38,900	11,792	88	7,133,459	7020	5,873,618	6350	109,470	234
14-Mar-23	0.08	872,938	9,712	152,775	12,375	92,150	283	621,793	667	384	930,300	0	164,829	72	62,411	2,760	1,538	181	1,231,145	38,150	11,879	87	7,139,406	5947	5,878,913	5295	109,470	0
15-Mar-23	0.07	879,269	6,331	152,821	10,350	92,433	283	622,460	667	384	930,300	0	164,937	108	62,648	2,370	1,723	185	1,235,125	39,800	11,955	76	7,146,172	6766	5,886,042	7129	109,820	350
16-Mar-23	0.00	886,751	7,482	152,866	10,125	92,716	283	623,126	666	383	930,300	0	165,045	108	62,888	2,400	1,723	0	1,234,063	-10,620	12,031	76	7,151,729	5557	5,890,930	4888	109,820	0
17-Mar-23	0.32	895,096	8,345	152,913	10,575	93,066	350	623,793	667	317	930,300	0	165,152	107	63,114	2,260	1,907	184	1,243,279	92,160	12,118	87	7,178,564	26835	5,919,554	28624	110,214	394
18-Mar-23	0.39	903,058 *	7,962	152,970 *	12,825	93,438 *	372	625,275 *	1,482	1,110	930,324 *	24	165,272 *	120	63,457 *	3,430	2,029 *	122	1,247,399 *	41,200	12,207 *	89	7,199,596 *	21032	5,944,174 *	24620	110,324 *	110
19-Mar-23	0.24	911,020 *	7,962	153,027 *	12,825	93,810 *	372	626,757 *	1,482	1,110	930,348 *	24	165,392 *	120	63,800 *	3,430	2,151 *	122	1,251,519 *	41,200	12,296 *	89	7,220,628 *	21032	5,968,794 *	24620	110,434 *	110
20-Mar-23	0.00	918,981	7,961	153,083	12,600	94,183	373	628,238	1,481	1,108	930,372	24	165,512	120	64,142	3,420	2,272	121	1,255,640	41,210	12,384	88	7,241,659	21031	5,993,413	24619	110,544	110
21-Mar-23	0.00	925,924	6,943	153,135	11,700	94,532	349	628,682	444	95	930,372	0	165,620	108	64,572	4,300	2,272	0	1,259,442	38,020	12,485	101	7,250,488	8829	6,001,271	7858	110,890	346
22-Mar-23	0.00	933,729	7,805	153,177	9,450	94,838	306	629,126	444	138	930,372	0	165,728	108	64,823	2,510	2,448	176	1,263,201	37,590	12,574	89	7,259,029	8541	6,008,898	7627	110,890	0
23-Mar-23	0.04	942,938	9,209	153,217	9,000	95,145	307	629,793	667	360	930,372	0	165,836	108	65,094	2,710	2,448	0	1,267,292	40,910	12,649	75	7,266,732	7703	6,015,859	6961	111,253	363
24-Mar-23	0.18	953,118	10,180	153,268	11,475	95,473	328	630,238	445	117	930,372	0	165,980	144	65,427	3,330	2,623	175	1,271,620	43,280	12,735	86	7,277,813	11081	6,025,951	10092	111,253	0
25-Mar-23	0.45	963,178 *	10,060	153,321 *	11,925	95,838 *	365	630,905 *	667	302	931,931 *	1,559	166,100 *	120	65,753 *	3,260	2,735 *	112	1,275,799 *	41,790	12,818 *	83	7,293,197 *	15384	6,039,980 *	14029	111,495 *	242
26-Mar-23	0.22	973,238 *	10,060	153,374 *	11,925	96,203 *	365	631,572 *	667	302	933,490 *	1,559	166,220 *	120	66,079 *	3,260	2,847 *	112	1,279,978 *	41,790	12,901 *	83	7,308,581 *	15384	6,054,009 *	14029	111,737 *	242
27-Mar-23	0.00	983,298	10,060	153,426	11,700	96,569	366	632,238	666	300	935,048	1,558	166,339	119	66,405	3,260	2,959	112	1,284,156	41,780	12,983	82	7,323,965	15384	6,068,037	14028	111,980	243
28-Mar-23	0.40	994,485	11,187	153,474	10,800	96,942	373	635,571	3,333	2,960	935,048	0	166,447	108	66,734	3,290	3,086	127	1,288,174	40,180	13,057	74	7,347,132	23167	6,071,558	3521	111,980	0
29-Mar-23	0.00	4,593	10,108	153,520	10,350	97,292	350	637,126	1,555	1,205	935,048	0	166,555	108	67,065	3,310	3,233	147	1,292,326	41,520	13,146	89	7,363,299	16167	6,071,764	206	112,338	358
30-Mar-23	0.09	13,153	8,560	153,561	9,225	97,643	351	637,793	667	316	935,048	0	166,698	143	67,342	2,770	3,233	0	1,296,310	39,840	13,221	75	7,368,475	5176	6,073,129	1365	112,338	0
31-Mar-23	0.00	22,434	9,281	153,602	9,225	97,972	329	638,460	667	338	935,659	611	166,806	108	67,641	2,990	3,377	144	1,300,248	39,380	13,308	87	7,386,001	17526	6,073,203	74	112,709	371
																												0
MONTHLY Σ	4.59		320,072		362,475		10,934		32,000	21,066		43,561		3,524		89,960		3,341		########		2,613		430161		357495	0	5,297
AVE. LEAK RATE GALLONS/ ACRE/DAY							11.4							25.3				7.2				25.9						11.6

Note

N Note
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

TOTAL GALLONS GENERATED					
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	PHASE IV	ENTIRE LANDFILL
320,072	373,409	140,386	1,257,583	435,458	2,091,450

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD					CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1	PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SECONDARY PUMP 1	GPD X1
31-Mar-23		22,434		153,602		97,972		638,460	338	935,659		166,806		67,641		3,377		1,300,248		13,308		7386001		6073203.00		112709	
1-Apr-23	0.81	30,635 *	8,201	153,654 *	11,700	98,346 *	374	639,793 *	1,333	959	935,671 *	12	166,938 *	132	67,978 *	3,370	3,461 *	84	1,303,833 *	35,850	13,388 *	80	7,423,191 *	37190	6,075,965 *	2762	112,848 *	139
2-Apr-23	0.26	38,836 *	8,201	153,706 *	11,700	98,720 *	374	641,126 *	1,333	959	935,679 *	8	167,070 *	132	68,315 *	3,370	3,545 *	84	1,307,418 *	35,850	13,468 *	80	7,460,381 *	37190	6,078,727 *	2762	112,987 *	0
3-Apr-23	0.00	47,038	8,202	153,759	11,925	99,093	373	642,460	1,334	961	935,694	15	167,202	132	68,651	3,360	3,629	84	1,311,003	35,850	13,549	81	7,497,571	37190	6,081,490	2763	113,126	139
4-Apr-23	0.00	54,268	7,230	153,807	10,800	99,445	352	643,126	666	314	935,694	0	167,310	108	68,919	2,680	3,629	0	1,314,322	33,190	13,658	109	7,512,390	14819	6,092,649	11159	113,480	354
5-Apr-23	0.00	61,858	7,590	153,853	10,350	99,752	307	643,793	667	360	935,694	0	167,418	108	69,255	3,360	3,753	124	1,317,594	32,720	13,725	67	7,523,720	11330	6,114,605	21956	113,480	0
6-Apr-23	0.47	70,383	8,525	153,902	11,025	37	285	644,460	667	382	935,694	0	167,526	108	69,691	4,360	3,753	0	1,321,108	35,140	13,807	82	7,525,842	2122	6,147,524	32919	113,802	322
7-Apr-23	0.00	76,561 *	6,178	153,942 *	9,000	318 *	281	645,849 *	1,389	1,108	936,018 *	324	167,634 *	108	69,891 *	2,000	3,882 *	129	1,324,614 *	35,060	13,876 *	69	7,526,013 *	171	6,161,179 *	13655	113,983 *	181
8-Apr-23	0.00	82,739 *	6,178	153,982 *	9,000	599 *	281	647,238 *	1,389	1,108	936,342 *	324	167,742 *	108	70,091 *	2,000	4,011 *	129	1,328,120 *	35,060	13,945 *	69	7,526,184 *	171	6,174,834 *	13655	114,164 *	181
9-Apr-23	0.00	88,917 *	6,178	154,022 *	9,000	880 *	281	648,627 *	1,389	1,108	936,666 *	324	167,850 *	108	70,291 *	2,000	4,140 *	129	1,331,626 *	35,060	14,014 *	69	7,526,355 *	171	6,188,489 *	13655	114,345 *	181
10-Apr-23	0.00	95,096	6,179	154,062	9,000	1,159	279	650,015	1,388	1,109	936,989	323	167,957	107	70,492	2,010	4,269	129	1,335,133	35,070	14,081	67	7,526,524	169	6,202,145	13656	114,524	179
11-Apr-23	0.00	100,383	5,287	154,108	10,350	1,356	197	650,460	445	248	955,623	18,634	168,065	108	70,659	1,670	4,269	0	1,338,562	34,290	14,158	77	7,526,535	11	6,210,466	8321	114,524	0
12-Apr-23	0.00	106,283	5,900	154,151	9,675	1,508	152	650,904	444	292	955,623	0	168,173	108	70,823	1,640	4,269	0	1,341,948	33,860	14,221	63	7,520,535	-6000	6,218,566	8100	114,524	0
13-Apr-23	0.00	112,002	5,719	154,191	9,000	1,638	130	651,348	444	314	955,623	0	168,245	72	71,014	1,910	4,269	0	1,345,201	32,530	14,287	66	7,526,535	6000	6,225,944	7378	114,889	365
14-Apr-23	0.00	117,326	5,324	154,252	13,725	1,769	131	652,015	667	536	955,802	179	168,317	72	71,155	1,410	4,269	0	1,348,605	34,040	14,354	67	7,526,536	1	6,232,925	6981	114,889	0
15-Apr-23	0.00	121,930 *	4,604	154,294 *	9,450	1,856 *	87	652,385 *	370	283	955,922 *	120	168,365 *	48	71,296 *	141	4,320 *	51	1,351,614 *	3009	14,413 *	59	7,527,395 *	859	6,240,287 *	7362	115,138 *	249
16-Apr-23	0.00	126,534 *	4,604	154,336 *	9,450	1,943 *	87	652,755 *	370	283	956,042 *	120	168,413 *	48	71,437 *	141	4,371 *	51	1,354,623 *	3009	14,472 *	59	7,528,254 *	859	6,247,649 *	7362	115,387 *	249
17-Apr-23	0.52	131,139	4,605	154,378	9,450	2,030	87	653,126	371	284	956,162	120	168,461	48	71,579	1,420	4,423	52	1,357,632	30,090	14,532	60	7,529,113	859	6,255,010	7361	115,635	248
18-Apr-23	0.12	137,470	6,331	154,422	9,900	2,117	87	654,904	1,778	1,691	956,270	108	168,533	72	71,719	1,400	4,423	0	1,360,225	25,930	14,598	66	7,531,216	2103	6,263,395	8385	115,635	0
19-Apr-23	0.07	142,578	5,108	154,467	10,125	2,182	65	655,126	222	157	956,270	0	168,605	72	71,823	1,040	4,423	0	1,362,773	25,480	14,678	80	7,534,191	2975	6,270,647	7252	115,635	0
20-Apr-23	0.00	148,369	5,791	154,504	8,325	2,225	43	655,571	445	402	956,270	0	168,677	72	71,924	1,010	4,574	151	1,365,303	25,300	14,741	63	7,536,464	2273	6,270,647	0	115,994	359
21-Apr-23	0.00	152,434	4,065	154,541	8,325	2,269	44	655,793	222	178	956,270	0	168,785	108	72,047	1,230	4,574	0	1,368,159	28,560	14,774	33	7,536,909	445	6,277,952	7305	115,994	0
22-Apr-23	0.42	158,465 *	6,031	154,586 *	10,125	2,312 *	43	656,237 *	444	401	956,270 *	0	168,857 *	72	72,166 *	1,190	4,574 *	0	1,370,943 *	27,840	14,850 *	76	7,537,372 *	463	6,290,491 *	12539	116,111 *	117
23-Apr-23	0.09	164,496 *	6,031	154,631 *	10,125	2,355 *	43	656,681 *	444	401	956,270 *	0	168,929 *	72	72,285 *	1,190	4,574 *	0	1,373,727 *	27,840	14,926 *	76	7,537,835 *	463	6,303,030 *	12539	116,228 *	117
24-Apr-23	0.01	170,527	6,031	154,676	10,125	2,399	44	657,126	445	401	956,270	0	169,001	72	72,404	1,190	4,574	0	1,376,510	27,830	15,002	76	7,538,299	464	6,315,570	12540	116,345	117
25-Apr-23	0.25	177,434	6,907	154,718	9,450	2,442	43	660,015	2,889	2,846	956,270	0	169,109	108	72,550	1,460	4,729	155	1,379,489	29,790	15,035	33	7,539,803	1504	6,327,266	11696	116,345	0
26-Apr-23	0.03	183,189	5,755	154,758	9,000	2,507	65	660,237	222	157	956,270	0	169,180	71	72,674	1,240	4,729	0	1,382,580	30,910	15,099	64	7,541,022	1219	6,336,881	9615	116,717	372
27-Apr-23	0.00	189,844	6,655	154,796	8,550	2,550	43	660,682	445	402	956,270	0	169,288	108	72,799	1,250	4,874	145	1,385,586	30,060	15,176	77	7,542,502	1480	6,344,013	7132	116,717	0
28-Apr-23	0.00	196,067	6,223	154,834	8,550	2,594	44	660,904	222	178	956,270	0	169,396	108	72,934	1,350	4,874	0	1,388,738	31,520	15,207	31	7,547,833	5331	6,348,123	4110	116,717	0
29-Apr-23	0.22	204,017 *	7,950	154,882 *	10,800	2,681 *	87	661,200 *	296	209	956,270 *	0	169,396 *	0	73,052 *	1,180	4,924 *	50	1,392,024 *	32,860	15,277 *	70	7,561,972 *	14139	6,356,746 *	8623	116,837 *	120
30-Apr-23	0.03	211,967 *	7,950	154,930 *	10,800	2,768 *	87	661,496 *	296	209	956,270 *	0	169,396 *	0	73,170 *	1,180	4,974 *	50	1,395,310 *	32,860	15,347 *	31	7,576,111 *	14139	6,365,369 *	8623	116,957 *	120
		219,916		154,977		2,856		661,793	297		83,536		169,396		73,287		5024		1,398,596		15,416		7,590,251		6,373,993		117,078	
MONTHLY Σ	3.30		189,533		298,800		4,796		23,333	18,240		20,611		2,590		52,752		1,597		896,458		2,000		190110		292166		0	4,109
AVE. LEAK RATE GALLONS/ ACRE/DAY							5.2							19.2				3.57				19.85				482276			9.32

Note Landfill rain gauge is currently broken. Rainfall data is from weather.com for zip code 14701.

N Note Bypass
⇐ Metering mechanism malfunction.
♣ Rain Event.

N.Rain gauge not working
N. Phase II secondarys were opened after sampling 4/19/17

TOTAL GALLONS GENERATED

PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
189,533	303,596	77,550	898,458	1,469,137

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SECONDARY PUMP 1	GPD X1
30-Apr-23		211,967 *		154,930 *		2,768 *		661,496 *			956,270 *	0	169,396 *		73,170 *		4,974 *		1,395,310 *		15,347 *		7,576,111 *		6,365,369 *		116,957 *	
1-May-23	0.44	219,916	7,949	154,977	10,575	2,856	88	661,793	297	209	83,536	127,266	169,684	288	73,287	1,170	5024	50	1,398,596	32,860	15,416		7,576,212		6,373,993	8624	117,078	121
2-May-23	0.22	229,844	9,928	155,035	13,050	3,142	286	661,793	0	-286	92,925	9,389	169,792	108	73,453	1,660	5,024	0	1,402,008	34,120	15450	34	7,590,251	14039	6,384,909	10916	117,078	0
3-May-23	0.30	239,988	10,144	155,095	13,500	3,471	329	662,682	889	560	92,925	0	169,936	144	73,652	1,990	5,024	0	1,405,607	35,990	15530	80	7,611,053	20802	6,401,435	16526	117,431	353
4-May-23	0.11	250,815	10,827	155,154	13,275	3,844	373	663,793	1,111	738	92,925	0	170,044	108	73,882	2,300	5,024	0	1,409,831	42,240	15596	66	7,626,576	15523	6,413,902	12467	117,431	0
5-May-23	0.00	259,412	8,597	155,197	9,675	4,218	374	667,571	3,778	3,404	92,925	0	170,152	108	74,017	1,350	5,173	149	1,413,508	36,770	15675	79	7,635,172	8596	6,421,097	7195	117,431	0
6-May-23	0.00	266,858 *	7,446	155,237 *	9,000	4,487 *	269	668,237 *	666	397	97,146 *	4,221	170,248 *	96	74,245 *	2,280	5,173 *	0	1,418,418 *	49,100	15770 *	95	7,640,468 *	5296	6,425,708 *	4611	117,672 *	241
7-May-23	0.00	274,304 *	7,446	155,276 *	8,775	4,755 *	268	669,126 *	889	621	100,559 *	3,413	170,348 *	100	74,483 *	2,380	5,173 *	0	1,423,328 *	49,100	15865 *	95	7,645,764 *	5296	6,430,319 *	4611	117,913 *	241
8-May-23	0.03	281,750	7,446	155,317	9,225	5,025	270	670,015	889	619	105,587	5,028	170,439	91	74,701	2,180	5,173	0	1,428,237	49,090	15961	96	7,651,059	5295	6,434,929	4610	118,153	240
9-May-23	0.00	289,700	7,950	155,354	8,325	5,290	265	670,904	889	624	107,385	1,798	170,547	108	74,959	2,580	5,324	151	1,431,579	33,420	16023	62	7,655,155	4096	6,438,464	3535	118,153	0
10-May-23	0.00	295,132	5,432	155,391	8,325	5,352	62	671,348	444	382	109,831	2,446	170,583	36	75,178	2,190	5,324	0	1,434,837	32,580	16088	65	7,659,217	4062	6,441,683	3219	118,153	0
11-May-23	0.00	298,765	3,633	155,425	7,650	5,460	108	671,348	0	-108	110,623	792	170,619	36	75,315	1,370	5,324	0	1,438,191	33,540	16167	79	7,663,444	4227	6,446,570	4887	118,153	0
12-May-23	0.00	302,038	3,273	155,462	8,325	5,548	88	672,015	667	579	110,658	35	170,691	72	75,449	1,340	5,324	0	1,441,204	30,130	16233	66	7,667,598	4154	6,448,432	1862	118,516	363
13-May-23	0.00	305,191 *	3,153	155,497 *	7,875	5,613 *	65	672,311 *	296	395	111,605 *	947	170,703 *	12	75,591 *	1,420	5,374 *	50	1,444,203 *	29,990	16302 *	69	7,671,387 *	3789	6,451,534 *	3102	118,753 *	237
14-May-23	0.00	308,344 *	3,153	155,532 *	7,875	5,671 *	58	672,805 *	494	545	112,273 *	668	170,711 *	8	75,721 *	1,300	5,408 *	34	1,447,202 *	29,990	16371 *	69	7,675,176 *	3789	6,454,636 *	3102	118,990 *	237
15-May-23	0.00	311,498	3,154	155,566	7,650	5,743	72	672,904	99	27	113,500	1,227	170,727	16	75,876	1,550	5,475	67	1,450,202	30,000	16440	69	7,678,966	3790	6,457,738	3102	119,228	238
16-May-23	0.00	315,024	3,526	155,603	8,325	5,786	43	673,793	889	846	113,608	108	170,727	0	75,982	1,060	5,475	0	1,453,375	31,730	16504	64	7,682,339	3373	6,460,421	2683	119,228	0
17-May-23	0.00	319,160	4,136	155,644	9,225	5,829	43	673,793	0	-43	121,090	7,482	170,763	36	76,139	1,570	5,475	0	1,456,117	27,420	16570	66	7,689,073	6734	6,465,885	5464	119,591	363
18-May-23	0.00	322,506	3,346	155,680	8,100	5,872	43	674,231	438	395	121,090	0	170,763	0	76,213	740	5,475	0	1,459,048	29,310	16603	33	7,693,218	4145	6,469,011	3126	119,591	0
19-May-23	0.00	325,851	3,345	155,720	9,000	5,916	44	674,682	451	407	121,414	324	170,763	0	76,258	450	5,475	0	1,461,826	27,780	16671	68	7,697,294	4076	6,472,279	3268	119,950	359
20-May-23	0.11	329,280 *	3,429	155,755 *	7,875	5,938 *	22	674,904 *	222	200	132,385 *	10,971	170,775 *	12	76,347 *	890	5,475 *	0	1,464,582 *	27,560	16726 *	55	7,701,457 *	4163	6,475,487 *	3208	120,067 *	117
21-May-23	0.58	332,709 *	3,429	155,791 *	8,100	5,959 *	21	675,200 *	296	275	139,735 *	7,350	170,783 *	8	76,427 *	800	5,475 *	0	1,467,338 *	27,560	16781 *	55	7,705,620 *	4163	6,478,695 *	3208	120,184 *	117
22-May-23	0.00	336,139	3,430	155,826	7,875	5,981	22	675,348	148	126	154,328	14,593	170,799	16	76,525	980	5,475	0	1,470,094	27,560	16837	56	7,709,783	4163	6,481,902	3207	120,301	117
23-May-23	0.00	339,484	3,345	155,863	8,325	6,002	21	675,793	445	424	154,435	107	170,799	0	76,586	610	5,475	0	1,472,973	28,790	16913	76	7,713,627	3844	6,484,865	2963	120,301	0
24-May-23	0.00	342,757	3,273	155,900	8,325	6,024	22	676,015	222	200	154,435	0	170,799	0	76,671	850	5,475	0	1,475,832	28,590	16944	31	7,717,650	4023	6,487,908	3043	120,673	372
25-May-23	0.00	346,750	3,993	155,938	8,550	6,024	0	676,460	445	445	154,471	36	170,835	36	76,724	530	5,475	0	1,478,522	26,900	17011	67	7,721,156	3506	6,490,766	2858	120,673	0
26-May-23	0.00	349,484	2,734	155,969	6,975	6,045	21	676,682	222	201	154,471	0	170,835	0	76,761	370	5,626	151	1,481,344	28,220	17056	45	7,724,529	3373	6,493,639	2873	120,673	0
27-May-23	0.00	352,038 *	2,554	156,002 *	7,425	6,056 *	11	677,571 *	889	878	157,331 *	2,860	170,844 *	9	76,815 *	540	5,626 *	0	1,484,192 *	28,480	17110 *	54	7,727,618 *	3089	6,496,208 *	2569	120,673 *	0
28-May-23	0.00	354,592 *	2,554	156,035 *	7,425	6,067 *	11	678,460 *	889	878	160,191 *	2,860	170,853 *	9	76,869 *	540	5,626 *	0	1,487,040 *	28,480	17164 *	54	7,730,707 *	3089	6,498,777 *	2569	120,898 *	225
29-May-23	0.00	357,146 *	2,554	156,068 *	7,425	6,078 *	11	679,349 *	889	878	163,051 *	2,860	170,862 *	9	76,923 *	540	5,626 *	0	1,489,888 *	28,480	17218 *	54	7,733,796 *	3089	6,501,346 *	2569	121,123 *	225
30-May-23	0.00	359,700	2,554	156,101	7,425	6,089	11	680,237	888	877	165,910	2,859	170,871	9	76,975	520	5,626	0	1,492,735	28,470	17270	52	7,736,884	3088	6,503,913	2567	121,347	224
31-May-23	0.00	363,153	3,453	156,168	15,075	6,089	0	689,126	8,889	8,889	165,910	0	170,871	0	77,013	380	5,626	0	1,492,735	0	17316	46	7,739,717	2833	6,506,269	2356	121,394	47
MONTHLY Σ	1.79		151,186		278,550		3,321		27,630	24,582		209,640		1,475		38,430		652		974,250		1,900		163505		140900		4,437
AVE. LEAK RATE GALLONS/ ACRE/DAY							3.5							10.6				1.41				18.86						10

N Line Cleaning started 5/29/18
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.

TOTAL GALLONS GENERATED					
CONDENSA	PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
13,938	151,186	281,871	250,197	976,150	1,673,342

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD					CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1	PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRI x1	GPD x1	PRI x2	GPD x1	SEC x1	GPD x1
31-May-23	0.00	363,153		156,168		6,089		689,126	8,889	165,910		170,871		77,013		5,626		1492735.00		17,316		7,739,717		6,506,269		121,394	
1-Jun-23	0.00	366,211	3,058	156,220	11,700	6,122	33	694,460	5,334	5,301	165,946	36	170,871	0	77,067	540	5,626	0	1495424.00	26,890	17,348	32	7,742,508	2,791	6,508,605	2,336	121,749	355
2-Jun-23	0.00	369,268	3,057	156,270	11,250	6,112	-10	702,237	7,777	7,787	165,946	0	170,871	0	77,101	340	5,626	0	1498122.00	26,980	17,412	64	7,745,218	2,710	6,510,796	2,191	121,749	0
3-Jun-23	0.00	372,865 *	3,597	156,334 *	14,400	6,122 *	10	712,163 *	9,926	9,916	165,958 *	12	170,871 *	0	77,150 *	490	5,626 *	0	1500565.00 *	24,430	17,459 *	47	7,747,924 *	2,706	6,513,091 *	2,295	121,993 *	244
4-Jun-23	0.00	376,462 *	3,597	156,398 *	14,400	6,132 *	10	722,089 *	9,926	9,916	165,970 *	12	170,871 *	0	77,199 *	490	5,626 *	0	1503008.00 *	24,430	17,506 *	47	7,750,630 *	2,706	6,515,386 *	2,295	122,237 *	244
5-Jun-23	0.00	380,060	3,598	156,462	14,400	6,143	11	732,015	9,926	9,915	165,982	12	170,871	0	77,249	500	5,626	0	1505451.00	24,430	17,553	47	7,753,337	2,707	6,517,682	2,296	122,480	243
6-Jun-23	0.00	383,045	2,985	156,501	8,775	6,143	0	737,571	5,556	5,556	165,982	0	170,907	36	77,296	470	5,626	0	1507622.00	21,710	17,615	62	7,755,709	2,372	6,519,741	2,059	122,480	0
7-Jun-23	0.00	386,427	3,382	156,544	9,675	6,143	0	741,793	4,222	4,222	165,982	0	170,907	0	77,352	560	5,626	0	1510161.00	25,390	17,681	66	7,758,638	2,929	6,522,212	2,471	122,480	0
8-Jun-23	0.00	389,592	3,165	156,579	7,875	6,143	0	745,126	3,333	3,333	166,342	360	170,907	0	77,400	480	5,626	0	1512549.00	23,880	17,712	31	7,761,009	2,371	6,524,202	1,990	122,480	0
9-Jun-23	0.00	392,326	2,734	156,613	7,650	6,143	0	748,460	3,334	3,334	166,342	0	170,907	0	77,428	280	5,626	0	1514891.00	23,420	17,778	66	7,763,880	2,871	6,526,395	2,193	123,196	716
10-Jun-23	0.00	395,623 *	3,297	156,648 *	7,875	6,150 *	7	752,238 *	3,778	3,771	167,745 *	1,403	170,919 *	12	77,477 *	490	5,626 *	0	1517758.00 *	28,670	17,825 *	47	7,766,350 *	2,470	6,528,454 *	2,059	123,314 *	118
11-Jun-23	0.00	398,920 *	3,297	156,683 *	7,875	6,157 *	7	756,016 *	3,778	3,771	169,148 *	1,403	170,931 *	12	77,526 *	490	5,626 *	0	1520625.00 *	28,670	17,872 *	47	7,768,820 *	2,470	6,530,513 *	2,059	123,432 *	118
12-Jun-23	0.19	402,218	3,298	156,719	8,100	6,165	8	759,793	3,777	3,769	170,551	1,403	170,943	12	77,576	500	5,626	0	1523492.00	28,670	17,920	48	7,771,290	2,470	6,532,573	2,060	123,551	119
13-Jun-23	0.25	406,139	3,921	156,760	9,225	6,186	21	764,015	4,222	4,201	170,551	0	170,943	0	77,615	390	5,626	0	1526342.00	28,500	17,985	65	7,756,990	-14,300	6,536,297	3,724	123,911	360
14-Jun-23	0.19	409,772	3,633	156,803	9,675	6,186	0	769,348	5,333	5,333	170,551	0	170,943	0	77,661	460	5,626	0	1529339.00	29,970	18,016	31	7,780,190	23,200	6,540,084	3,787	123,911	0
15-Jun-23	0.35	412,937	3,165	156,835	7,200	6,213	27	773,793	4,445	4,418	170,551	0	170,943	0	77,682	210	5,626	0	1531693.00	23,540	18,086	70	7,788,888	8,698	6,547,920	7,836	123,911	0
16-Jun-23	0.02	416,858	3,921	156,872	8,325	6,213	0	778,237	4,444	4,444	170,551	0	170,943	0	77,727	450	5,626	0	1534670.00	29,770	18,117	31	7,797,070	8,182	6,555,067	7,147	124,282	371
17-Jun-23	0.03	419,664 *	2,806	156,905 *	7,425	6,213 *	0	780,959 *	2,722	2,722	193,681 *	23,130	170,952 *	9	77,763 *	360	5,662 *	36	1537263.00 *	25,930	18,169 *	52	7,802,053 *	4,983	6,559,347 *	4,280	124,372 *	90
18-Jun-23	0.00	422,470 *	2,806	156,938 *	7,425	6,213 *	0	783,681 *	2,722	2,722	216,811 *	23,130	170,961 *	9	77,799 *	360	5,698 *	36	1539856.00 *	25,930	18,221 *	52	7,807,036 *	4,983	6,563,627 *	4,280	124,462 *	90
19-Jun-23	0.00	425,276 *	2,806	156,971 *	7,425	6,213 *	0	786,403 *	2,722	2,722	239,941 *	23,130	170,970 *	9	77,835 *	360	5,734 *	36	1542449.00 *	25,930	18,273 *	52	7,812,019 *	4,983	6,567,907 *	4,280	124,552 *	90
20-Jun-23	0.00	428,081	2,805	157,003	7,200	6,213	0	789,126	2,723	2,723	263,069	23,128	170,979	9	77,871	360	5,771	37	1545042.00	25,930	18,326	53	7,817,002	4,983	6,572,188	4,281	124,642	90
21-Jun-23	0.05	431,786	3,705	157,030	6,075	6,213	0	792,015	2,889	2,889	264,651	1,582	170,979	0	77,898	270	5,771	0	1547774.00	27,320	18,391	65	7,820,877	3,875	6,575,515	3,327	124,642	0
22-Jun-23	0.02	435,060	3,274	157,060	6,750	6,234	21	795,126	3,111	3,090	279,543	14,892	170,979	0	77,926	280	5,771	0	1550352.00	25,780	18,422	31	7,824,138	3,261	6,578,471	2,956	124,642	0
23-Jun-23	0.02	437,650	2,590	157,092	7,200	6,234	0	798,015	2,889	2,889	279,579	36	170,979	0	77,971	450	5,771	0	1552849.00	24,970	18,488	66	7,827,561	3,423	6,581,310	2,839	124,642	0
24-Jun-23	0.23	440,444 *	2,794	157,124 *	7,200	6,241 *	7	802,459 *	4,444	4,437	279,579 *	0	170,979 *	0	78,025 *	540	5,771 *	0	1555443.00 *	25,940	18,531 *	43	7,830,478 *	2,917	6,583,742 *	2,432	124,883 *	241
25-Jun-23	0.05	443,238 *	2,794	157,156 *	7,200	6,248 *	7	806,903 *	4,444	4,437	279,579 *	0	170,979 *	0	78,079 *	540	5,771 *	0	1558037.00 *	25,940	18,574 *	43	7,833,395 *	2,917	6,586,174 *	2,432	125,124 *	241
26-Jun-23	0.07	446,031	2,793	157,187	6,975	6,256	8	811,348	4,445	4,437	279,579	0	170,979	0	78,132	530	5,771	0	1560630.00	25,930	18,616	42	7,836,311	2,916	6,588,606	2,432	125,365	241
27-Jun-23	2.98	449,124	3,093	157,215	6,300	6,256	0	817,793	6,445	6,445	279,579	0	170,979	0	78,177	450	5,771	0	1563311.00	26,810	18,693	77	7,863,744	27,433	6,628,211	39,605	125,365	0
28-Jun-23	0.25	453,009	3,885	157,255	9,000	6,256	0	826,460	8,667	8,667	279,579	0	171,015	36	78,218	410	5,771	0	1565496.00	21,850	18,726	33	7,898,125	34,381	6,667,110	38,899	125,714	349
29-Jun-23	0.00	455,635	2,626	157,282	6,075	6,256	0	832,682	6,222	6,222	279,615	36	171,015	0	78,237	190	5,771	0	1567483.00	19,870	18,759	33	7,917,155	19,030	6,683,412	16,302	125,714	0
30-Jun-23	0.00	458,837	3,202	157,310	6,300	6,256	0	839,348	6,666	6,666	279,867	252	171,015	0	78,278	410	5,771	0	1569878.00	23,950	18,822	63	7,926,858	9,703	6,691,934	8,522	125,714	0
																			0									
MONTHLY Σ	4.70		95,684		256,950		167		150,222	150,055		113,957		144		12,650		145		771,430		1,506		187,141		185,665		4,320
AVE. LEAK RATE GALLONS/ ACRE/DAY							0.2						1.1				0.32				15.45		372,806				9.80

N Line Cleaning was preforme 6/2/2021-6/10/2021
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
95,684	257,117	126,896	772,936	1,252,633

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 14.7 acres							
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SECONDARY PUMP 1	GPD X1		
30-Jun-23	0.00	458,837	3,202	157,310	6,300	6,256	0	839,348	6,666	6,666	279,867	252	171,015	0	78,278	410	5,771	0	1,569,878		18,822	63	7,926,858	9,703	6,691,934	8,522	125,714	0		
1-Jul-23	0.00	461,739 *	2,902	157,337 *	6,075	6,263 *	7	845,348 *	6,000	5,993	394,531 *	25,799,400	171,015 *	0	78,301 *	230	5,771 *	0	1,572,606 *	27,280	18,866 *	44	7,946,664 *	19806	6,712,538 *	20604	125833 *	119		
2-Jul-23	1.44	464,641 *	2,902	157,364 *	6,075	6,270 *	7	851,348 *	6,000	5,993	509,195 *	114,664	171,015 *	0	78,324 *	230	5,771 *	0	1,575,334 *	27,280	18,910 *	44	7,966,470 *	19806	6,733,142 *	20604	125952 *	119		
3-Jul-23	0.45	467,542	2,901	157,390	5,850	6,277	7	857,348	6,000	5,993	623,860	114,665	171,015	0	78,347	230	5,771	0	1,578,062	27,280	18,954	44	7,986,275	19805	6,753,746	20604	126072	120		
4-Jul-23	0.01	471,103 *	3,561	157,421 *	6,975	6,277 *	0	864,237 *	6,889	6,889	650,910 *	27,050	171,015 *	0	78,395 *	480	5,771 *	0	1,580,613 *	25,510	19,008 *	54	7,998,185 *	11910	6,764,798 *	11052	126191 *	119		
5-Jul-23	0.00	475,024	3,921	157,455	7,650	6,277	0	872,015	7,778	7,778	705,011	54,101	171,015	0	78,458	630	5,771	0	1,583,257	26,440	19,052	44	8,014,066	15881	6,779,594	14796	126430	239		
6-Jul-23	0.00	478,225	3,201	157,482	6,075	6,277	0	878,015	6,000	6,000	705,011	0	171,015	0	78,492	340	5,771	0	1,585,715	24,580	19,116	64	8,022,005	7939	6,786,903	7309	126430	0		
7-Jul-23	0.20	482,146	3,921	157,516	7,650	6,298	21	885,126	7,111	7,090	705,047	36	171,015	0	78,523	310	5,771	0	1,588,528	28,130	19,148	32	8,028,998	6993	6,793,053	6150	126800	370		
8-Jul-23	0.00	485,335 *	3,189	157,545 *	6,525	6,298 *	0	891,496 *	6,370	6,370	706,702 *	1,655	171,027 *	12	78,554 *	310	5,771 *	0	1,590,639 *	21,110	19,195 *	47	8,033,594 *	4596	6,797,129 *	4076	126920 *	120		
9-Jul-23	0.00	488,524 *	3,189	157,574 *	6,525	6,298 *	0	897,866 *	6,370	6,370	708,357 *	1,655	171,039 *	12	78,585 *	310	5,771 *	0	1,592,750 *	21,110	19,242 *	47	8,038,190 *	4596	6,801,205 *	4076	127040 *	120		
10-Jul-23	0.00	491,714	3,190	157,602	6,300	6,298	0	904,237	6,371	6,371	710,011	1,654	171,051	12	78,617	320	5,771	0	1,594,861	21,110	19,289	47	8,042,786	4596	6,805,280	4075	127160	120		
11-Jul-23	0.00	495,096	3,382	157,638	8,100	6,298	0	912,015	7,778	7,778	710,011	0	171,051	0	78,645	280	5,771	0	1,596,840	19,790	19,353	64	8,046,115	3329	6,808,157	2877	127505	345		
12-Jul-23	0.03	498,045	2,949	157,667	6,525	6,319	21	918,237	6,222	6,201	710,335	324	171,051	0	78,677	320	5,771	0	1,599,141	23,010	19,385	32	8,049,002	2887	6,810,614	2457	127505	0		
13-Jul-23	0.22	501,355	3,310	157,696	6,525	6,319	0	925,126	6,889	6,889	721,450	11,115	171,051	0	78,731	540	5,771	0	1,601,604	24,630	19,448	63	8,051,750	2748	6,813,165	2551	127849	344		
14-Jul-23	0.00	504,268	2,913	157,724	6,300	6,319	0	931,126	6,000	6,000	721,486	36	171,051	0	78,757	260	5,917	146	1,603,628	20,240	19,478	30	8,054,315	2565	6,815,367	2202	127849	0		
15-Jul-23	0.00	507,218 *	2,950	157,752 *	6,300	6,319 *	0	937,571 *	6,445	6,445	721,498 *	12	171,051 *	0	78,788 *	310	5,917 *	0	1,605,737 *	21,090	19,519 *	41	8,077,297 *	22982	6,840,223 *	24856	128084 *	235		
16-Jul-23	0.88	510,168 *	2,950	157,780 *	6,300	6,319 *	0	944,016 *	6,445	6,445	721,510 *	12	171,051 *	0	78,819 *	310	5,917 *	0	1,607,846 *	21,090	19,560 *	41	8,100,279 *	22982	6,865,079 *	24856	128319 *	235		
17-Jul-23	0.00	513,117	2,949	157,808	6,300	6,319	0	950,460	6,444	6,444	721,522	12	171,051	0	78,850	310	5,917	0	1,609,956	21,100	19,602	42	8,123,262	22983	6,889,935	24856	128554	235		
18-Jul-23	0.08	516,498	3,381	157,873	14,625	6,341	22	964,682	14,222	14,200	721,558	36	171,051	0	78,883	330	5,917	0	1,612,054	20,980	19,660	58	8,136,387	13125	6,902,074	12139	128554	0		
19-Jul-23	0.00	519,736	3,238	157,904	6,975	6,341	0	971,793	7,111	7,111	721,882	324	171,087	36	78,909	260	5,917	0	1,613,811	17,570	19,709	49	8,145,628	9241	6,910,916	8842	128554	0		
20-Jul-23	0.00	522,506	2,770	157,941	8,325	6,341	0	980,237	8,444	8,444	721,917	35	171,087	0	78,938	290	5,917	0	1,615,397	15,860	19,759	50	8,152,263	6635	6,917,085	6169	128904	350		
21-Jul-23	0.72	525,887	3,381	158,011	15,750	6,341	0	989,328	9,091	9,091	721,917	0	171,087	0	79,106	1,680	5,917	0	1,617,541	21,440	19,820	61	8,169,550	17287	6,943,256	26171	128904	0		
22-Jul-23	0.00	525,935 N	48	158,030 *	4,275	6,348 *	7	992,742 *	3,414	3,407	722,565 N	648	171,087 *	0	79,117 N	110	5,917 *	0	1,619,045 N	15,040	19,864 *	44	8,177,237 *	7687	6,950,508 *	7252	129026 *	122		
23-Jul-23	0.00	525,983 N	48	158,049 *	4,275	6,355 *	7	996,156 *	3,414	3,407	723,213 N	648	171,087 *	0	79,128 N	110	5,917 *	0	1,620,549 N	15,040	19,908 *	44	8,184,924 *	7687	6,957,760 *	7252	129,148 *	122		
24-Jul-23	0.02	526,031 N	48	158,069	4,500	6,362	7	999,571	3,415	3,408	723,860 N	647	171,087	0	79,139 N	110	5,917	0	1,622,052 N	15,030	19,953	45	8,192,610	7686	6,965,012	7252	129,269	121		
25-Jul-23	0.00	526,031 N	0	158,103	7,650	6,362	0	7,571	8,000	8,000	726,846 N	2,986	171,087	0	79,156 N	170	5,917	0	1,623,359 N	13,070	20,003	50	8,210,280	17670	6,973,841	8829	129623	354		
26-Jul-23	0.02	526,031 N	0	158,131	6,300	6,362	0	14,237	6,666	6,666	726,882 N	36	171,087	0	79,178 N	220	5,917	0	1,624,577 N	12,180	20,052	49	8,217,910	7630	6,981,308	7467	129623	0		
27-Jul-23	1.25	526,031 N	0	158,182	11,475	6,362	0	25,348	11,111	11,111	726,882 N	0	171,087	0	79,198 N	200	5,917	0	1,626,174 N	15,970	20,101	49	8,231,698	13788	6,998,754	17446	129623	0		
28-Jul-23	0.00	526,031 N	0	158,231	11,025	6,362	0	36,460	11,112	11,112	726,882 N	0	171,087	0	79,213 N	150	5,917	0	1,627,610 N	14,360	20,150	49	8,286,169	54471	7,069,091	70337	129992	369		
29-Jul-23	0.00	526,031 N	0	158,265 *	7,650	6,369 *	7	44,089 *	7,629	7,622	727,038 N	156	171,099 *	12	79,225 N	120	5,959 *	42	1,628,756 N	11,460	20,195 *	45	8,296,533 *	10364	7,078,504 *	9413	130114 *	122		
30-Jul-23	0.11	526,031 N	0	158,299 *	7,650	6,376 *	7	51,718 *	7,629	7,622	727,194 N	156	171,111 *	12	79,237 N	120	6,001 *	42	1,629,902 N	11,460	20,240 *	45	8,306,897 *	10364	7,087,917 *	9413	130,236 *	122		
31-Jul-23	0.00	526,031 N	0	158,333	7,650	6,383	7	59,348	7,630	7,623	727,349 N	155	171,123	12	79,249 N	120	6,043	42	1,631,048 N	11,460	20,286	46	8,317,261	10364	7,097,331	9414	130,357	121		
1-Aug-22																					13,539										
MONTHLY Σ			67,194		230,175		127		220,000	219,873		26,132,218		108		9,710		272		611,700		1,464		390403		######		4643		
AVE. LEAK RATE GALLONS/ ACRE/DAY	5.43						0.1							0.8				0.59				14.53					10.528		

N	Note
⇐	Metering mechanism malfunction.
♣	Rain Event.
*	Interpolated Value.
⊗	Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
67,194	230,302	26,142,308	613,164	27,052,968

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD					CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1/3 VERTICAL EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1	PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRIMARY x10	GPD x1	SECON-DARY x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SECOND ARY PUMP 1	GPD X1
31-Jul-23	0.00	526,031		158,333		6,383		59,348		727,349		171,123		79,249		6,043		1,631,048		20,286		8317261		7097331		130357	
1-Aug-23	0.34	526,031	0	158,374	9,225	6,404	21	67,793	8,445	8,424	727,421	72	171,123	0	79,263	140	6,043	0	1,631,597	5,490	20,335	49	8,323,945	6684	7103467	6136	130357	0
2-Aug-23	0.00	526,031	0	158,408	7,650	6,404	0	74,237	6,444	6,444	727,457	36	171,123	0	79,320	570	6,043	0	1,631,983	3,860	20,335	0	8,330,553	6608	7109061	5594	130357	0
3-Aug-23	0.00	526,031	0	158,441	7,425	6,426	22	81,126	6,889	6,867	728,752	1,295	171,123	0	79,336	160	6,043	0	1,632,475	4,920	20,424	89	8,335,551	4998	7,113,561	4500	130697	340
4-Aug-23	0.00	526,031	0	158,462	4,725	6,426	0	85,571	4,445	4,445	728,968	216	171,123	0	79,366	300	6,043	0	1,632,968	4,930	20,474	50	8,339,658	4107	7,117,236	3675	130697	0
5-Aug-23	0.00	526,031 *	0	158,511 *	11,025	6,433 *	7	90,238 *	4,667	4,660	733,225 *	4,257	171,123 *	0	79,384 *	180	6,043 *	0	1,633,149 *	1,810	20,519 *	45	8,342,873 *	3215	7,120,235 *	2999	130814 *	117
6-Aug-23	0.00	526,031 *	0	158,560 *	11,025	6,440 *	7	94,905 *	4,667	4,660	737,482 *	4,257	171,123 *	0	79,402 *	180	6,043 *	0	1,633,330 *	1,810	20,564 *	45	8,346,088 *	3215	7,123,234 *	2999	130931 *	117
7-Aug-23	0.43	526,031	0	158,610	11,250	6,447	7	99,571	4,666	4,659	741,738	4,256	171,123	0	79,420	180	6,043	0	1,633,511	1,810	20,608	44	8,349,302	3214	7,126,233	2999	131049	118
8-Aug-23	0.20	526,031	0	158,668	13,050	6,447	0	104,015	4,444	4,444	741,738	0	171,123	0	79,449	290	6,043	0	1,633,674	1,630	20,657	49	8,353,119	3817	7,129,952	3719	131049	0
9-Aug-23	0.00	526,031	0	158,809	31,725	6,447	0	112,460	8,445	8,445	741,738	0	171,123	0	79,471	220	6,043	0	1,633,674	0	20,706	49	8,357,694	4575	7,134,573	4621	131395	346
10-Aug-23	0.32	526,031	0	158,908	22,275	6,468	21	116,682	4,222	4,201	741,738	0	171,123	0	79,495	240	6,043	0	1,633,716	420	20,743	37	8,361,242	3548	7,138,221	3648	131395	0
11-Aug-23	0.08	526,031	0	158,955	10,575	6,468	0	118,204	1,522	1,522	741,882	144	171,123	0	79,516	210	6,043	0	1,633,721	50	20,743	0	8,364,775	3533	7,141,978	3757	131734	339
12-Aug-23	0.00	528,837 *	2,806	158,982 *	6,075	6,468 *	0	121,919 *	3,715	3,715	741,906 *	24	171,123 *	0	79,573 *	570	6,090 *	47	1,634,799 *	10,780	20,805 *	62	8,367,725 *	2950	7,145,004 *	3026	131734 *	0
13-Aug-23	0.26	531,643 *	2,806	159,009 *	6,075	6,468 *	0	125,634 *	3,715	3,715	741,930 *	24	171,123 *	0	79,630 *	570	6,137 *	47	1,635,877 *	10,780	20,867 *	62	8,370,675 *	2950	7,148,030 *	3026	131734 *	0
14-Aug-23	0.00	534,448	2,805	159,036	6,075	6,468	0	129,348	3,714	3,714	741,953	23	171,123	0	79,686	560	6,183	46	1,636,955	10,780	20,930	63	8,373,626	2951	7,151,057	3027	131734	0
15-Aug-23	0.03	536,642	2,194	159,074	8,550	6,468	0	133,793	4,445	4,445	741,989	36	171,123	0	79,775	890	6,183	0	1,638,640	16,850	20,980	50	8,376,509	2883	7,154,076	3019	132084	350
16-Aug-23	0.16	541,427	4,785	159,107	7,425	6,490	22	138,460	4,667	4,645	742,025	36	171,123	0	79,915	1,400	6,183	0	1,640,367	17,270	21,030	50	8,379,037	2528	7,156,838	2762	132084	0
17-Aug-23	0.18	546,355	4,928	159,187	18,000	6,490	0	142,904	4,444	4,444	742,061	36	171,123	0	80,344	4,290	6,183	0	1,642,031	16,640	21,067	37	8,381,333	2296	7,159,225	2387	132084	0
18-Aug-23	0.19	550,168	3,813	159,266	17,775	6,490	0	146,237	3,333	3,333	742,097	36	171,123	0	80,496	1,520	6,183	0	1,643,910	18,790	21,116	49	8,383,677	2344	7,161,823	2598	132424	340
19-Aug-23	0.00	553,273 *	3,105	159,312 *	10,350	6,490 *	0	149,496 *	3,259	3,259	742,289 *	192	171,135 *	12	80,565 *	690	6,183 *	0	1,645,335 *	14,250	21,162 *	46	8385844 *	2167	7164097 *	2274	132424 *	0
20-Aug-23	0.00	556,378 *	3,105	159,358 *	10,350	6,490 *	0	152,755 *	3,259	3,259	742,481 *	192	171,147 *	12	80,634 *	690	6,183 *	0	1,646,760 *	14,250	21,208 *	46	8,388,011 *	2167	7,166,371 *	2274	132424 *	0
21-Aug-23	0.00	559,484	3,106	159,404	10,350	6,490	0	156,015	3,260	3,260	742,673	192	171,159	12	80,704	700	6,184	1	1,648,185	14,250	21,253	45	8,390,177	2166	7,168,644	2273	132424	0
22-Aug-23	0.00	562,793	3,309	159,449	10,125	6,511	21	160,682	4,667	4,646	755,363	12,690	171,159	0	80,773	690	6,184	0	1,650,027	18,420	21,290	37	8391968	1791	7170646	2002	132424	0
23-Aug-23	0.00	565,527	2,734	159,493	9,900	6,511	0	164,682	4,000	4,000	755,694	331	171,159	0	80,925	1,520	6,184	0	1,651,719	16,920	21,340	50	8393991	2023	7172678	2032	132754	330
24-Aug-23	0.53	568,333	2,806	159,522	6,525	6,511	0	168,237	3,555	3,555	755,766	72	171,159	0	81,045	1,200	6,184	0	1,653,575	18,560	21,402	62	8398211	4220	7178243	5565	132754	0
25-Aug-23	0.63	571,175	2,842	159,560	8,550	6,511	0	172,904	4,667	4,667	755,838	72	171,159	0	81,153	1,080	6,184	0	1,655,696	21,210	21,440	38	8413249	15038	7201652	23409	132754	0
26-Aug-23	0.05	573,969 *	2,794	159,589 *	6,525	6,518 *	7	177,941 *	5,037	5,030	755,922 *	84	171,159 *	0	81,238 *	850	6,184 *	0	1,657,485 *	17,890	21,484 *	44	8444035 *	30786	7231984 *	30332	132875 *	121
27-Aug-23	0.00	576,763 *	2,794	159,618 *	6,525	6,525 *	7	182,978 *	5,037	5,030	756,006 *	84	171,159 *	0	81,323 *	850	6,228 *	44	1,659,274 *	17,890	21,528 *	44	8,474,821 *	30786	7,262,316 *	30332	132996 *	121
28-Aug-23	0.00	579,556	2,793	159,646	6,300	6,533	8	188,015	5,037	5,029	756,090	84	171,159	0	81,408	850	6,317	89	1,661,063	17,890	21,572	44	8,505,607	30786	7,292,647	30331	133118	122
29-Aug-23	0.00	582,398	2,842	159,672	5,850	6,533	0	191,348	3,333	3,333	756,126	36	171,159	0	81,469	610	6,317	0	1,662,518	14,550	21,609	37	8510800	5193	7,297,749	5102	133118	0
30-Aug-23	0.00	585,563	3,165	159,704	7,200	6,533	0	195,348	4,000	4,000	756,198	72	171,159	0	81,562	930	6,317	0	1,664,345	18,270	21,658	49	8515244	4444	7,302,139	4390	133467	349
31-Aug-23	0.02	587,470	1,907	159,731	6,075	6,533	0	198,237	2,889	2,889	756,270	72	171,195	36	81,601	390	6,317	0	1,665,739	13,940	21,707	49	8519013	3769	7,305,811	3672	133467	0
MONTHLY Σ	3.42		61,439		314,550		150		138,889	138,739		28,921		72		23,520		274		346,910		1,421		201752		208480		3110
AVE. LEAK RATE GALLONS/ ACRE/DAY							0.2							0.5				0.6				15.3						6.8

N Note
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

TOTAL GALLONS GENERATED					
PHASE IV	PHASE I	PHASE II	PHASE III	VERT. EXP.	ENTIRE LANDFILL
410232	61,439	314,700	52,787	348,331	1,187,489

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD					CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1/3 VERTICAL EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1	PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRIMARY x10	GPD x1	SECON-DARY x1	GPD x1	**PRIMARY PUMP 1**	GPDX1	**PRIMARY PUMP 2**	GPDX1	**SECOND ARY PUMP 1**	GPD X1
	0.02	587,470		159,731		6,533		198,237	2,889	756,270		171,195		81,601		6,317		1,665,739		21,707		8,519,013		7,305,811		133,467	
1-Sep-23	0.00	589,628	2,158	159,758	6,075	6,533	0	201,126	2,889	756,342	72	171,195	0	81,629	280	6,317	0	1,666,999	12,600	21,745	38	8,522,260	3247	7,309,040	3229	133,467	0
2-Sep-23	0.00	591,705 *	2,077	159,784 *	5,850	6,538 *	5	204,126 *	3,000	759,696 *	3,354	171,195 *	0	81,682 *	530	6,317 *	0	1,668,934 *	19,350	21,789 *	44	8,524,668 *	2408	7,311,439 *	2399	133,553 *	86
3-Sep-23	0.00	593,782 *	2,077	159,810 *	5,850	6,543 *	5	207,126 *	3,000	763,050 *		171,195 *	0	81,735 *	530	6,317 *	0	1,670,869 *	19,350	21,833 *	44	8,527,076 *	2408	7,313,838 *	2399	133,639 *	86
4-Sep-23	0.00	595,859 *	2,077	159,836 *	5,850	6,548 *	5	210,126 *	3,000	766,404 *	3,354	171,195 *	0	81,788 *	530	6,317 *	0	1,672,804 *	19,350	21,877 *	44	8,529,484 *	2408	7,316,237 *	2399	133,725 *	86
5-Sep-23	0.00	597,937	2,078	159,863	6,075	6,554	6	213,126	3,000	769,759	3,355	171,195	0	81,842	540	6,317	0	1,674,739	19,350	21,921	44	8,531,893	2409	7,318,637	2400	133,810	85
6-Sep-23	0.00	600,419	2,482	159,898	7,875	6,554	0	217,126	4,000	769,831	72	171,195	0	81,896	540	6,317	0	1,676,857	21,180	21,954	33	8,533,847	1954	7,320,635	1998	133,810	0
7-Sep-23	0.12	602,973	2,554	159,928	6,750	6,554	0	222,237	5,111	769,867	36	171,195	0	81,965	690	6,317	0	1,679,067	22,100	22,009	55	8,535,842	1995	7,322,557	1922	134,139	329
8-Sep-23	0.11	605,383	2,410	159,960	7,200	6,554	0	227,348	5,111	769,939	72	171,195	0	82,010	450	6,317	0	1,680,950	18,830	22,059	50	8,537,653	1811	7,324,417	1860	134,139	0
9-Sep-23	0.02	607,505 *	2,122	159,989 *	6,525	6,554 *	0	227,348 *	0	769,987 *	48	171,195 *	0	82,052 *	420	6,317 *	0	1,682,217 *	12,670	22,097 *	38	8,539,311 *	1658	7,326,132 *	1715	134,251 *	112
10-Sep-23	0.90	609,627 *	2,122	160,018 *	6,300	6,554 *	0	227,348 *	0	770,035 *	48	171,195 *	0	82,094 *	420	6,317 *	0	1,683,484 *	12,670	22,135 *	38	8,540,969 *	1658	7,327,847 *	1715	134,363 *	112
11-Sep-23	0.00	611,750	1,133	160,047	6,075	6,554	0	227,348	0	770,083	48	171,195	0	82,137	430	6,317	0	1,684,750	12,660	22,172	37	8,542,628	1659	7,329,562	1715	134,476	113
12-Sep-23	0.13	614,016	1,133	160,073	5,850	6,587	33	240,682	13,334	770,155	72	171,195	0	82,201	640	6,317	0	1,685,964	12,140	22,221	49	8,544,080	1452	7,331,194	1632	134,476	0
13-Sep-23	0.00	616,427	2,411	160,097	5,400	6,587	0	244,015	3,333	770,191	36	171,195	0	82,250	490	6,317	0	1,687,253	12,890	22,258	37	8,545,625	1545	7,332,784	1590	134,476	0
14-Sep-23	0.00	619,268	2,841	160,121	5,400	6,587	0	246,682	2,667	770,227	36	171,195	0	82,300	500	6,440	123	1,688,295	10,420	22,308	50	8,547,180	1555	7,334,322	1538	134,824	348
15-Sep-23	0.00	621,822	2,554	160,156	7,875	6,587	0	249,571	2,889	770,299	72	171,195	0	82,330	300	6,440	0	1,689,280	9,850	22,345	37	8,548,686	1506	7,335,695	1373	134,824	0
16-Sep-23	0.00	624,088 *	2,266	160,198 *	9,450	6,587 *	0	252,312 *	2,741	770,347 *	48	171,195 *	0	82,369 *	390	6,440 *	0	1,690,718 *	14,380	22,387 *	42	8,550,145 *	1459	7,337,154 *	1459	135,173 *	349
17-Sep-23	0.00	626,354 *	2,266	160,240 *	9,450	6,587 *	0	255,053 *	2,741	770,395 *	48	171,195 *	0	82,408 *	390	6,440 *	0	1,692,156 *	14,380	22,429 *	42	8,551,604 *	1459	7,338,613 *	1459	135,173 *	0
18-Sep-23	0.00	628,621	2,267	160,283	9,675	6,587	0	257,793	2,740	770,443	48	171,195	0	82,447	390	6,440	0	1,693,593	14,370	22,471	42	8,553,064	1460	7,340,073	1460	135,173	0
19-Sep-23	0.32	630,959	2,338	160,307	5,400	6,604	17	261,126	3,333	770,515	72	171,195	0	82,482	350	6,440	0	1,695,029	14,360	22,522	51	8,554,442	1378	7,341,340	1267	135,173	0
20-Sep-23	0.00	633,225	2,266	160,343	8,100	6,604	0	266,379	5,253	770,551	36	171,195	0	82,513	310	6,440	0	1,696,378	13,490	22,560	38	8,555,823	1381	7,342,731	1391	135,173	0
21-Sep-23	0.00	635,491	2,266	160,365	4,950	6,604	0	266,682	303	770,802	251	171,195	0	82,547	340	6,440	0	1,697,583	12,050	22,598	38	8,557,124	1301	7,344,002	1271	135,173	0
22-Sep-23	0.00	637,757	2,266	160,392	6,075	6,604	0	270,015	3,333	770,838	36	171,195	0	82,587	400	6,440	0	1,698,832	12,490	22,634	36	8,558,412	1288	7,345,234	1232	135,521	348
23-Sep-23	0.00	639,963 *	2,206	160,416 *	5,400	6,604 *	0	272,830 *	2,815	771,629 *	791	171,195 *	0	82,635 *	480	6,440 *	0	1,700,202 *	13,700	22,671 *	37	8,560,114 *	1702	7,346,161 *	927	135,521 *	0
24-Sep-23	0.00	642,169 *	2,206	160,440 *	5,550	6,604 *	0	275,645 *	2,815	772,420 *	791	171,195 *	0	82,683 *	480	6,440 *	0	1,701,572 *	13,700	22,708 *	37	8,561,816 *	1702	7,347,088 *	927	135,521 *	0
25-Sep-23	0.11	644,376	2,207	160,465	5,700	6,604	0	278,460	2,815	773,212	792	171,195	0	82,732	490	6,440	0	1,702,943	13,710	22,745	37	8,563,517	1701	7,348,014	926	135,521	0
26-Sep-23	0.33	646,714	2,338	160,491	5,850	6,604	0	281,348	2,888	773,248	36	171,195	0	82,779	470	6,440	0	1,704,281	13,380	22,794	49	8,564,864	1347	7,348,014	0	135,521	0
27-Sep-23	0.00	653,621	6,907	160,522	6,975	6,604	0	285,348	4,000	773,320	72	171,195	0	82,813	340	6,440	0	1,705,558	12,770	22,831	37	8,568,273	3409	7,348,166	152	135,866	345
28-Sep-23	0.00	656,319	2,698	160,549	6,075	6,604	0	288,015	2,667	773,392	72	171,195	0	82,857	440	6,440	0	1,705,919	3,610	22,868	37	8,570,799	2526	7,348,166	0	135,866	0
29-Sep-23	0.05	658,333	2,014	160,575	5,850	6,630	26	292,904	4,889	773,428	36	171,195	0	82,903	460	6,440	0	1,708,330	24,110	22,917	49	8,572,051	1252	7,349,148	982	135,866	0
30-Sep-23	0.00	660,479 *	2,146	160,594 *	4,275	6,630 *	0	295,423 *	2,519	773,476 *	48	171,195 *	0	82,942 *	390	6,440 *	0	1,709,849 *	15,190	22,957 *	40	8,574,124 *	2073	7,349,358 *	210	135,866 *	0
1-Oct-23		662,625 *		160,613 *		6,630 *		297,942 *		773,524 *		171,195 *		82,981 *		6,440 *		1,711,368 *		22,997 *		8,576,197 *		7,349,568 *		135,866 *	
2-Oct-23		664,772		160,633		6,630		300,460		773,572		171,195		83,021		6,440		1,712,887		23,038		8578271		7,349,779		135866	
MONTHLY Σ	2.09		70,886		193,725		97		97,186	97,089	13,852		0		13,410		123		441,100		1,250		53038		43337		2399
AVE. LEAK RATE GALLONS/ ACRE/DAY							0.1						0.0				0.3				12.8						5.4

N Note
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	VERT. EXP.	ENTIRE LANDFILL
70,886	193,822	27,385	442,350	734,443

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	**PRIMARY PUMP 1**	GPDX1	**PRIMARY PUMP 2**	GPDX1	**SEC PUMP 3**	GPD X1
30-Sep-23	0.00	660,479 *		160,594 *		6,630 *		295,423 *		2,519	773,476 *		171,195 *		82,942 *		6,440 *		1,709,849 *		22,957 *		8574124 *		7349358 *		135866 *	
1-Oct-23	0.01	662,625 *	2,146	160,613 *	4,275	6,630 *	0	297,942 *	2,519	2,519	773,524 *	48	171,195 *	0	82,981 *	390	6,440 *	0	1,711,368 *	15,190	22,997 *	40	8576197 *	2073	7349568 *	210	135866 *	0
2-Oct-23	0.00	664,772	2,147	160,633	4,500	6,630	0	300,460	2,518	2,518	773,572	48	171,195	0	83,021	400	6,440	0	1,712,887	15,190	23,038	41	8578271	2074	7349779	211	135866	0
3-Oct-23	0.00	667,182	2,410	160,655	4,950	6,640	10	303,793	3,333	3,323	773,572	0	171,195	0	83,058	370	6,562	122	1,714,590	17,030	23,076	38	8580712	2441	7349797	18	136214	0
4-Oct-23	0.00	669,556	2,374	160,698	9,675	6,640	0	312,682	8,889	8,889	773,680	108	171,195	0	83,093	350	6,562	0	1,716,447	18,570	23,113	37	8582889	2177	7349824	27	136214	0
5-Oct-23	0.00	672,002	2,446	160,718	4,500	6,640	0	315,348	2,666	2,666	773,716	36	171,195	0	83,135	420	6,562	0	1,716,540	930	23,165	52	8584997	2108	7349846	22	136214	0
6-Oct-23	0.31	674,376	2,374	160,742	5,400	6,647	7	318,460	3,112	3,105	773,752	36	171,195	0	83,179	440	6,562	0	1,720,722	41,820	23,228	63	8587235	2238	7350627	781	136214	0
7-Oct-23	0.40	676,849 *	2,473	160,770 *	6,300	6,647 *	0	322,627 *	4,167	4,167	773,779 *	27	171,195 *	0	83,221 *	420	6,562 *	0	1,722,497 *	17,750	23,268 *	40	8604307 *	17072	7376149 *	25522	136301 *	87
8-Oct-23	0.47	679,322 *	2,473	160,798 *	6,300	6,647 *	0	326,794 *	4,167	4,167	773,806 *	27	171,195 *	0	83,263 *	420	6,562 *	0	1,724,272 *	17,750	23,308 *	40	8621379 *	17072	7401671 *	25522	136388 *	87
9-Oct-23	0.44	681,795 *	2,473	160,826 *	6,300	6,647 *	0	330,961 *	4,167	4,167	773,833 *	27	171,195 *	0	83,305 *	420	6,562 *	0	1,726,047 *	17,750	23,348 *	40	8638451 *	17072	7427193 *	25522	136475 *	87
10-Oct-23	0.02	684,268	2,473	160,852	5,850	6,647	0	335,126	4,165	4,165	773,860	27	171,195	0	83,348	430	6,562	0	1,727,823	17,760	23,388	40	8655523	17072	7452713	25520	136561	86
11-Oct-23	0.00	686,391	2,123	160,876	5,400	6,647	0	337,793	2,667	2,667	773,876	16	171,195	0	83,373	250	6,562	0	1,729,319	14,960	23,425	37	8661654	6131	7459903	7190	136561	0
12-Oct-23	0.00	688,189	1,798	160,900	5,400	6,647	0	340,682	2,889	2,889	773,932	56	171,195	0	83,399	260	6,647	85	1,730,788	14,690	23,461	36	8666500	4846	7465496	5593	136900	339
13-Oct-23	0.00	690,671	2,482	160,939	8,775	6,662	15	358,237	17,555	17,540	773,932	0	171,195	0	83,430	310	6,647	0	1,732,164	13,760	23,511	50	8670235	3735	7469815	4319	136900	0
14-Oct-23	0.08	693,884 *	3,213	160,966 *	6,075	6,662 *	0	360,607 *	2,370	2,370	773,968 *	36	171,195 *	0	83,462 *	320	6,647 *	0	1,734,789 *	26,250	23,552 *	41	8680038 *	9803	7482131 *	12316	136900 *	0
15-Oct-23	0.49	697,097 *	3,213	160,993 *	6,075	6,662 *	0	362,977 *	2,370	2,370	774,004 *	36	171,195 *	0	83,494 *	320	6,647 *	0	1,737,414 *	26,250	23,593 *	41	8689841 *	9803	7494447 *	12316	136900 *	0
16-Oct-23	0.15	700,311	3,214	161,021	6,300	6,662	0	365,348	2,371	2,371	774,040	36	171,195	0	83,525	310	6,647	0	1,740,039	26,250	23,635	42	8699645	9804	7506762	12315	136900	0
17-Oct-23	0.08	703,729	3,418	161,072	11,475	6,662	0	367,570	2,222	2,222	774,040	0	171,195	0	83,589	640	6,647	0	1,744,019	39,800	23,686	51	8713026	13381	7525823	19061	136900	0
18-Oct-23	0.05	707,650	3,921	161,109	8,325	6,662	0	370,015	2,445	2,445	774,076	36	171,195	0	83,642	530	6,647	0	1,748,347	43,280	23,735	49	8722875	9849	7539139	13316	137234	334
19-Oct-23	0.00	711,391	3,741	161,134	5,625	6,662	0	371,570	1,555	1,555	774,076	0	171,231	36	83,689	470	6,647	0	1,752,716	43,690	23,795	60	8729726	6851	7547561	8422	137234	0
20-Oct-23	0.10	714,124	2,733	161,157	5,175	6,662	0	372,459	889	889	774,112	36	171,267	36	83,751	620	6,647	0	1,756,984	42,680	23,845	50	8735055	5329	7553617	6056	137234	0
21-Oct-23	0.29	721,234 *	7,110	161,201 *	9,900	6,980 *	318	373,792 *	1,333	1,015	774,136 *	24	171,339 *	72	83,835 *	840	6,647 *	0	1,761,261 *	42,770	23,882 *	37	8753781 *	18726	7579747 *	26130	137234 *	0
22-Oct-23	0.26	728,344 *	7,110	161,245 *	9,900	7,298 *	318	375,125 *	1,333	1,015	774,160 *	24	171,411 *	72	83,919 *	840	6,647 *	0	1,765,538 *	42,770	23,919 *	37	8772507 *	18726	7605877 *	26130	137234 *	0
23-Oct-23	0.02	735,455	7,111	161,288	9,675	7,617	319	376,459	1,334	1,015	774,184	24	171,483	72	84,004	850	6,647	0	1,769,815	42,770	23,955	36	8791234	18727	7632007	26130	137234	0
24-Oct-23	0.00	739,952	4,497	161,314	5,850	77,792	70,175	378,459	2,000	-68,175	774,184	0	171,626	143	84,034	300	6,685	38	1,773,780	39,650	23,993	38	8798364	7130	7639711	7704	137556	322
25-Oct-23	0.00	744,088	4,136	161,339	5,625	7,922	-69,870	380,237	1,778	71,648	774,184	0	171,734	108	84,059	250	6,685	0	1,777,654	38,740	24,029	36	8803918	5554	7645106	5395	137556	0
26-Oct-23	0.00	747,578	3,490	161,363	5,400	7,987	65	382,015	1,778	1,713	774,184	0	171,806	72	84,078	190	6,685	0	1,781,864	42,100	24,067	38	8808713	4795	7650111	5005	137556	0
27-Oct-23	0.01	750,275	2,697	161,386	5,175	8,031	44	383,570	1,555	1,511	774,220	36	171,842	36	84,131	530	6,685	0	1,785,634	37,700	24,115	48	8812922	4209	7654663	4552	137556	0
28-Oct-23	0.06	754,831 *	4,556	161,414 *	6,300	8,141 *	110	385,940 *	2,370	2,260	774,256 *	36	171,890 *	48	84,216 *	850	6,693 *	8	1,789,345 *	37,110	24,159 *	44	8823329 *	10407	7668692 *	14029	137680 *	124
29-Oct-23	0.51	759,387 *	4,556	161,442 *	6,300	8,251 *	110	388,310 *	2,370	2,260	774,292 *	36	171,938 *	48	84,301 *	850	6,701 *	8	1,793,056 *	37,110	24,203 *	44	8833736 *	10407	7682721 *	14029	137804 *	124
30-Oct-23	0.37	763,944	4,557	161,471	6,525	8,362	111	390,681	2,371	2,260	774,328	36	171,986	48	84,386	850	6,710	9	1,796,768	37,120	24,248	45	8844144	10408	7696751	14030	137927	123
31-Oct-23	0.11	772,038	8,094	161,519	10,800	9,266	904	395,792	5,111	4,207	774,328	0	172,094	108	84,561	1,750	6,710	0	1,800,344	35,760	24,308	60	8873054	28910	7736830	40079	137927	0
MONTHLY Σ	4.23		111,559		208,125		2,636		100,369	97,733		852		899		16,190		270		904,950		1,351		298930		387472		1713
AVE. LEAK RATE GALLONS/ ACRE/DAY							2.8							6.4				0.58				13.41				686402		3.9

N Line cleaning
⇐ Metering mechanism malfunction.
♣ Rain Event.
* Interpolated Value.
⊗ Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
111,559	210,761	18,211	906,301	1,246,832

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD						CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1		PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SEC PUMP 3	GPD X1
31-Oct-23		772,038		161,519		9,266		395,792			774,328		172,094		84,561		6,710		1,800,344		24,308		8,873,054		7,736,830		137,927	
1-Nov-23	0.02	778,873	6,835	161,558	8,775	9,938	672	400,459	4,667	3,995	774,364	36	172,202	108	84,695	1,340	6,710	0	1,804,007	36,630	24,356	48	8,883,298	10244	7,749,056	12226	137,927	0
2-Nov-23	0.03	784,808	5,935	161,590	7,200	10,358	420	409,126	8,667	8,247	774,364	0	172,310	108	84,772	770	6,710	0	1,807,518	35,110	24,404	48	8,890,239	6941	7,756,907	7851	137,927	0
3-Nov-23	0.00	790,671	5,863	161,613	5,175	10,665	307	412,237	3,111	2,804	774,364	0	172,418	108	84,881	1,090	6,738	28	1,810,941	34,230	24,454	50	8,895,734	5495	7,762,739	5832	137,927	0
4-Nov-23	0.00	794,856 *	4,185	161,633 *	4,500	10,811 *	146	415,126 *	2,889	2,743	774,376 *	12	172,514 *	96	84,948 *	670	6,740 *	2	1,814,303 *	33,620	24,503 *	49	8,900,018 *	4284	7,767,361 *	4622	138,035 *	108
5-Nov-23	0.03	799,041 *	4,185	161,653 *	4,500	10,957 *	146	418,015 *	2,889	2,743	774,388 *	12	172,610 *	96	85,015 *	670	6,742 *	2	1,817,665 *	33,620	24,552 *	49	8,904,302 *	4284	7,771,983 *	4622	138,143 *	108
6-Nov-23	0.00	803,225	4,184	161,672	4,275	11,102	145	420,903	2,888	2,743	774,400	12	172,706	96	85,082	670	6,743	1	1,821,027	33,620	24,602	50	8,908,586	4284	7,776,604	4621	138,250	107
7-Nov-23	0.16	806,714	3,489	161,694	4,950	11,168	66	423,792	2,889	2,823	774,400	0	172,778	72	85,153	710	6,743	0	1,824,410	33,830	24,652	50	8,912,103	3517	7,780,384	3780	138,250	0
8-Nov-23	0.02	810,311	3,597	161,717	5,175	11,233	65	426,015	2,223	2,158	774,400	0	172,814	36	85,223	700	6,743	0	1,827,559	31,490	24,713	61	8,915,135	3032	7,783,747	3363	138,250	0
9-Nov-23	0.02	813,189	2,878	161,738	4,725	11,255	22	428,681	2,666	2,644	774,400	0	172,885	71	85,298	750	6,780	37	1,830,745	31,860	24,763	50	8,918,230	3095	7,786,793	3046	138,250	0
10-Nov-23	0.00	815,716 *	2,527	161,767 *	6,525	11,282 *	27	431,237 *	2,556	2,529	774,400 *	0	172,930 *	45	85,354 *	560	6,780 *	0	1,833,705 *	29,600	24,809 *	46	8,920,717 *	2487	7,789,275 *	2482	138,336 *	86
11-Nov-23	0.00	818,243 *	2,527	161,796 *	6,525	11,309 *	27	433,793 *	2,556	2,529	774,400 *	0	172,975 *	45	85,410 *	560	6,780 *	0	1,836,665 *	29,600	24,855 *	46	8,923,204 *	2487	7,791,757 *	2482	138,422 *	86
12-Nov-23	0.00	820,770 *	2,527	161,825 *	6,525	11,336 *	27	436,349 *	2,556	2,529	774,400 *	0	173,020 *	45	85,466 *	560	6,780 *	0	1,839,625 *	29,600	24,901 *	46	8,925,691 *	2487	7,794,239 *	2482	138,508 *	86
13-Nov-23	0.00	823,297	2,527	161,853	6,300	11,363	27	438,903	2,554	2,527	774,400	0	173,065	45	85,520	540	6,780	0	1,842,586	29,610	24,948	47	8,928,176	2485	7,796,722	2483	138,593	85
14-Nov-23	0.00	825,995	2,698	161,876	5,175	11,385	22	441,570	2,667	2,645	774,543	143	173,065	0	85,564	440	6,780	0	1,845,317	27,310	24,984	36	8,930,012	1836	7,798,847	2125	138,593	0
15-Nov-23	0.00	828,477	2,482	161,896	4,500	11,385	0	443,570	2,000	2,000	774,579	36	173,101	36	85,612	480	6,780	0	1,847,871	25,540	25,034	50	8,931,864	1852	7,800,901	2054	138,593	0
16-Nov-23	0.00	830,815	2,338	161,921	5,625	11,407	22	445,792	2,222	2,200	774,615	36	173,101	0	85,689	770	6,780	0	1,850,427	25,560	25,084	50	8,934,351	2487	7,803,007	2106	138,593	0
17-Nov-23	0.00	833,477	2,662	161,949	6,300	11,407	0	448,015	2,223	2,223	774,651	36	173,137	36	85,775	860	6,780	0	1,853,040	26,130	25,121	37	8,935,174	823	7,805,168	2161	138,942	349
18-Nov-23	0.73	839,172 *	5,695	161,982 *	7,425	11,687 *	280	451,793 *	3,778	3,498	774,687 *	36	173,172 *	35	85,857 *	820	6,780 *	0	1,855,590 *	25,500	25,163 *	42	8,942,573 *	7399	7,815,689 *	10521	138,942 *	0
19-Nov-23	0.00	844,867 *	5,695	162,015 *	7,425	11,967 *	280	455,571 *	3,778	3,498	774,723 *	36	173,207 *	35	85,939 *	820	6,780 *	0	1,858,140 *	25,500	25,205 *	42	8,949,972 *	7399	7,826,210 *	10521	138,942 *	0
20-Nov-23	0.00	850,563	5,696	162,048	7,425	12,247	280	459,348	3,777	3,497	774,759	36	173,243	36	86,021	820	6,780	0	1,860,690	25,500	25,246	41	8,957,371	7399	7,836,730	10520	138,942	0
21-Nov-23	0.00	854,124	3,561	162,067	4,275	12,422	175	462,237	2,889	2,714	774,795	36	173,317	74	86,102	810	6,809	29	1,863,153	24,630	25,294	48	8,961,359	3988	7,840,377	3647	138,942	0
22-Nov-23	0.58	861,031	6,907	162,116	11,025	13,154	732	468,015	5,778	5,046	774,795	0	173,389	72	86,224	1,220	6,809	0	1,865,878	27,250	25,368	74	8,989,883	28524	7,877,257	36880	138,942	0
23-Nov-23	0.07	866,542 *	5,511	162,148 *	7,200	13,780 *	626	471,570 *	3,555	2,929	774,795 *	0	173,483 *	94	86,290 *	660	6,810 *	1	1,868,615 *	27,370	25,412 *	44	8,999,193 *	9310	7,885,791 *	8534	139,013 *	71
24-Nov-23	0.00	872,053 *	5,511	162,180 *	7,200	14,406 *	626	475,125 *	3,555	2,929	774,795 *	0	173,577 *	94	86,356 *	660	6,811 *	1	1,871,352 *	27,370	25,456 *	44	9,008,503 *	9310	7,894,325 *	8534	139,084 *	71
25-Nov-23	0.00	877,564 *	5,511	162,212 *	7,200	15,032 *	626	478,680 *	3,555	2,929	774,795 *	0	173,671 *	94	86,422 *	660	6,812 *	1	1,874,089 *	27,370	25,500 *	44	9,017,813 *	9310	7,902,859 *	8534	139,155 *	71
26-Nov-23	0.00	883,075 *	5,511	162,244 *	7,200	15,658 *	626	482,235 *	3,555	2,929	774,795 *	0	173,765 *	94	86,488 *	660	6,813 *	1	1,876,826 *	27,370	25,544 *	44	9,027,123 *	9310	7,911,393 *	8534	139,226 *	71
27-Nov-23	0.08	888,585	5,510	162,278	7,650	16,284	626	485,792	3,557	2,931	774,795	0	173,857	92	86,552	640	6,814	1	1,879,565	27,390	25,588	44	9,036,434	9311	7,919,929	8536	139,297	71
28-Nov-23	0.22	896,103	7,518	162,342	14,400	16,682	398	491,348	5,556	5,158	774,795	0	173,965	108	86,640	880	6,814	0	1,882,317	27,520	25,648	60	9,042,619	6185	7,926,435	6506	139,297	0
29-Nov-23	0.30	901,175	5,072	162,385	9,675	17,125	443	498,903	7,555	7,112	774,795	0	174,073	108	86,715	750	6,817	3	1,885,923	36,060	25,698	50	9,049,881	7262	7,935,148	8713	139,641	344
30-Nov-23	0.00	906,355	5,180	162,420	7,875	17,615	490	498,903	0	-490	774,795	0	174,144	71	86,776	610	6,817	0	1,889,787	38,640	25,745	47	9,056,892	7011	7,942,991	7843	139,641	0
MONTHLY Σ	2.26		134,317		202,725		8,349		103,111	94,762		467		2,050		22,150		107		894,430		1,437		183838		206161		1714
AVE. LEAK RATE GALLONS/ ACRE/DAY							9.0							15.2				0.2				14.74						3.9

N Note N Landfill rain gauge is not heated. Rainfall data are taken from:
http://www.wunderground.com/history/airport/KJHW/2014/11/26/MonthlyHistory.html?

⇐ Metering mechanism malfunction. * Interpolated Value.

♣ Rain Event. ⊗ Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
134,317	211,074	24,774	895,867	1,266,032

CHAUTAUQUA COUNTY LANDFILL
LEACHATE GENERATED AND LEAKAGE RATES

DATE	RAIN	PHASE I 34 acres		PHASE II, STAGE 1, 2, and 3 = 30.91 acres Sec. Limit = 618 GPD					CONDEN-SATE GPD	PHASE III, STAGE 1 4.5 acres				PHASE III, STAGE 2/3 14.9 acres				PHASE 1 EXPANSION Secondary = 3.25 acres				PHASE 4 STAGE 1 14.7 acres					
		PRI PUMP x1	GPD x1	PRI PUMP x225	GPD x1	SEC PUMP x1	GPD x1	SEC. + COND.	GPD x1	PRI PUMP x1	GPD x1	SEC PUMP x1	GPD x1	PRI PUMP x10	GPD x1	SEC PUMP x1	GPD x1	PRI x10	GPD x1	SEC x1	GPD x1	PRIMARY PUMP 1	GPDX1	PRIMARY PUMP 2	GPDX1	SEC PUMP 3	GPD X1
30-Nov-23	0.00	906,355		162,420		17,615		498,903		774,795		174,144		86,776		6,817		1,889,787		25,745		9056892		7942991		139641	
1-Dec-23	0.00	911,750	5,395	162,467	10,575	18,600	985	505,792	6,889	5,904	774,795	0	174,252	108	86,861	850	6,817	0	1,893,527	37,400	25,805	60	9,076,586	19694	7,971,960		139,641	0
2-Dec-23	0.31	920,167 *	8,417	162,534 *	15,075	20,014 *	1,414	517,866 *	12,074	10,660	774,795 *	0	174,348 *	96	87,030 *	1,690	6,817 *	0	1,897,140 *	36,130	25,882 *	77	9,127,596 *	51010	8,029,557 *	57597	139,641 *	0
3-Dec-23	0.09	928,584 *	8,417	162,601 *	15,075	21,428 *	1,414	529,940 *	12,074	10,660	774,795 *	0	174,444 *	96	87,199 *	1,690	6,817 *	0	1,900,753 *	36,130	25,959 *	77	9,178,606 *	0	8,087,154 *	57597	139,641 *	0
4-Dec-23	0.34	937,002	8,418	162,669	15,300	22,841	1,413	542,015	12,075	10,662	774,795	0	174,540	96	87,367	1,680	6,817	0	1,904,365	36,120	26,036	77	9,229,616	51,010	8,144,752	57598	139,641	0
5-Dec-23	0.05	945,707	8,705	162,781	25,200	24,221	1,380	552,903	10,888	9,508	774,795	0	174,612	72	87,657	2,900	6,817	0	1,907,901	35,360	26,134	98	9,271,195	41579	8,188,530	43778	140,006	365
6-Dec-23	0.02	953,153	7,446	162,828	10,575	25,404	1,183	562,015	9,112	7,929	774,795	0	174,720	108	87,895	2,380	6,819	2	1,911,464	35,630	26,231	97	9,287,996	16801	8,206,644	18114	140,006	0
7-Dec-23	0.07	959,628	6,475	162,867	8,775	26,382	978	569,348	7,333	6,355	774,795	0	174,828	108	88,130	2,350	6,819	0	1,914,955	34,910	26,341	110	9,300,247	12251	8,219,348	12704	140,066	60
8-Dec-23	0.00	965,419	5,791	162,899	7,200	27,092	710	575,570	6,222	5,512	774,795	0	174,900	72	88,351	2,210	6,819	0	1,918,360	34,050	26,439	98	9,308,929	8682	8,227,785	8437	140,066	0
9-Dec-23	0.00	972,637 *	7,218	162,945 *	10,350	28,011 *	919	583,348 *	7,778	6,859	774,807 *	12	174,996 *	96	88,528 *	1,770	6,819 *	0	1,919,484 *	11,240	26,455 *	16	9,326,238 *	17309	8,247,638 *	19853	140,282 *	216
10-Dec-23	M	979,855 *	7,218	162,991 *	10,350	28,930 *	919	591,126 *	7,778	6,859	774,819 *	12	175,092 *	96	88,705 *	1,770	6,821 *	2	1,920,608 *	11,240	26,471 *	16	9,343,547 *	17309	8,267,491 *	19853	140,498 *	216
11-Dec-23	0.47	987,074	7,219	163,037	10,350	29,848	918	598,903	7,777	6,859	774,831	12	175,188	96	88,881	1,760	6,821	0	1,921,733	11,250	26,488	17	9,360,856	17309	8,287,343	19852	140,715	217
12-Dec-23	T	993,477	6,403	163,073	8,100	30,829	981	605,792	6,889	5,908	774,831	0	175,296	108	89,034	1,530	6,821	0	1,931,432	96,990	26,488	0	9,371,011	10155	8,297,443	10100	140,715	0
13-Dec-23	0.00	999,376	5,899	163,103	6,750	31,617	788	611,792	6,000	5,212	774,831	0	175,403	107	89,184	1,500	6,821	0	1,934,678	32,460	26,488	0	9,378,837	7826	8,305,131	7688	140,715	0
14-Dec-23	0.00	3,945	4,569	163,125	4,950	32,154	537	616,681	4,889	4,352	774,831	0	175,511	108	89,322	1,380	6,821	0	1,937,790	31,120	26,488	0	9,385,795	6958	8,311,773	6642	140,715	0
15-Dec-23	0.00	8,837	4,892	163,148	5,175	32,599	445	621,792	5,111	4,666	774,973	142	175,583	72	89,437	1,150	6,821	0	1,940,976	31,860	26,488	0	9,391,746	5951	8,317,259	5486	141,085	370
16-Dec-23	0.00	14,221 *	5,384	163,176 *	6,300	32,930 *	331	626,903 *	5,111	4,780	774,998 *	25	175,679 *	96	89,541 *	1,040	6,821 *	0	1,944,083 *	31,070	26,497 *	9	9,396,378 *	4632	8,321,314 *	4055	141,213 *	128
17-Dec-23	0.00	19,605 *	5,384	163,204 *	6,300	33,261 *	331	632,014 *	5,111	4,780	775,023 *	25	175,775 *	96	89,645 *	1,040	6,823 *	2	1,947,190 *	31,070	26,506 *	9	9,401,010 *	4632	8,325,369 *	4055	141,341 *	128
18-Dec-23	0.20	24,988	5,383	163,232	6,300	33,593	332	637,126	5,112	4,780	775,047	24	175,871	96	89,749	1,040	6,823	0	1,950,296	31,060	26,515	9	9,405,643	4633	8,329,423	4054	141,469	128
19-Dec-23	0.44	31,462	6,474	163,272	9,000	34,245	652	645,346	8,220	7,568	775,083	36	175,978	107	89,922	1,730	6,823	0	1,953,421	31,250	26,515	0	9,406,780	1137	8,330,730	1307	141,469	0
20-Dec-23	0.00	38,045	6,583	163,315	9,675	35,060	815	653,568	8,222	7,407	775,083	0	176,086	108	90,048	1,260	6,823	0	1,956,260	28,390	26,515	0	9,408,361	1581	8,332,657	1927	141,469	0
21-Dec-23	0.00	44,016	5,971	163,395	18,000	35,874	814	661,346	7,778	6,964	775,118	35	176,194	108	90,137	890	6,823	0	1,959,006	27,460	26,515	0	9,436,232	27871	8,365,329	32672	141,469	0
22-Dec-23	0.00	50,383	6,367	163,384	-2,475	36,689	815	668,457	7,111	6,296	775,118	0	176,302	108	90,246	1,090	6,823	0	1,962,007	30,010	26,515	0	9,447,448	11216	8,376,583	11254	141,469	0
23-Dec-23	0.00	58,180 *	7,797	163,431 *	10,575	37,781 *	1,092	677,624 *	9,167	8,075	775,280 *	162	176,410 *	108	90,357 *	1,110	6,823 *	0	1,965,499 *	34,920	26,581 *	66	9,463,730 *	16282	8,395,171 *	18588	141,562 *	93
24-Dec-23	0.10	65,977 *	7,797	163,478 *	10,575	38,873 *	1,092	686,791 *	9,167	8,075	775,442 *	162	176,518 *	108	90,468 *	1,110	6,823 *	0	1,968,991 *	34,920	26,647 *	66	9,480,012 *	16282	8,413,759 *	18588	141,655 *	93
25-Dec-23	0.00	73,774 *	7,797	163,525 *	10,575	39,965 *	1,092	695,958 *	9,167	8,075	775,604 *	162	176,626 *	108	90,579 *	1,110	6,823 *	0	1,972,483 *	34,920	26,713 *	66	9,496,294 *	16282	8,432,347 *	18588	141,748 *	93
26-Dec-23	0.01	81,570	7,796	163,573	10,800	41,057	1,092	705,124	9,166	8,074	775,766	162	176,734	108	90,691	1,120	6,823	0	1,975,975	34,920	26,777	64	9,512,575	16281	8,450,933	18586	141,840	92
27-Dec-23	0.22	89,412	7,842	163,608	7,875	41,848	791	713,124	8,000	7,209	775,766	0	176,842	108	90,849	1,580	6,823	0	1,979,747	37,720	26,777	0	9,519,909	7334	8,458,312	7379	142,186	346
28-Dec-23	0.53	98,980	9,568	163,675	15,075	43,195	1,347	726,679	13,555	12,208	775,766	0	176,950	108	90,975	1,260	6,823	0	1,983,583	38,360	26,777	0	9,563,306	43397	8,511,127	52815	142,186	0
29-Dec-23	0.02	107,433	8,453	163,757	18,450	44,314	1,119	736,902	10,223	9,104	775,766	0	177,094	144	91,124	1,490	6,823	0	1,987,687	41,040	26,777	0	9,576,100	12794	8,525,370	14243	142,186	0
30-Dec-23	0.05	116,450 *	9,017	163,807 *	11,250	45,165 *	851	745,791 *	8,889	8,038	776,497 *	731	177,238 *	144	91,281 *	1,570	6,823 *	0	1,992,571 *	48,840	26,777 *	0	9,584,222 *	8122	8,533,611 *	8241	142,423 *	237
31-Dec-23	0.01	125,467 *	9,017	163,857 *	11,250	46,016 *	851	754,680 *	8,889	8,038	777,228 *	731	177,382 *	144	91,438 *	1,570	6,823 *	0	1,997,455 *	48,840	26,777 *	0	9,592,344 *	8122	8,541,852 *	8241	142,660 *	237
1-Jan-24		134,484		163,907		46,866		763,568			777,960		177,525		91,594		6,823		2,002,340		26,777		9,600,467		8,550,092		142,897	
2-Jan-24		140,095		163,932		47,377		768,902			777,996		177,633		91,698		6,823		2,005,807		26,777		9,605,572		8,555,597		143,266	
MONTHLY Σ	2.62		219,112		323,325		28,401		255,777	227,376		2,433		3,238		46,620		6		1,076,680		1,032		476320		569892		3019
AVE. LEAK RATE GALLONS/ ACRE/DAY							29.6							23.2				0.01				10.24						6.624973

Note Landfill rain gauge is not heated. Rainfall data in winter months are from weather.com for zip code 14701.

N	Meter being repaired
⇐	Metering mechanism malfunction.
♣	Rain Event.
*	Interpolated Value.
⊗	Meter reset to zero.

TOTAL GALLONS GENERATED				
PHASE I	PHASE II	PHASE III	PHASE 1 EXP	ENTIRE LANDFILL
219,112	351,726	52,297	1,077,712	1,700,847

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
b.) and d.)
VOLUME OF LIQUID COLLECTED WEEKLY FROM
POREWATER DRAINS AND LEAK DETECTION SYSTEMS

CHAUTAUQUA COUNTY LANDFILL
POREWATER VOLUME REPORT
FIRST QUARTER

PHASE II STAGE 1 PORE WATER VOLUMES				
DATE	METER READING	DIFFERENCE	# OF DAYS	GPD
12/31/2022	988404			
1/6/2023	988660	256	6	43
1/12/2023	988916	256	6	43
1/19/2023	989063	147	7	21
1/27/2023	989349	286	8	36
2/3/2023	989639	290	7	41
2/10/2023	990017	378	7	54
2/17/2023	990273	256	7	37
2/24/2023	990500	227	7	32
3/3/2023	990815	315	7	45
3/9/2023	991210	395	6	66
3/17/2023	991802	592	8	74
3/24/2023	992681	879	7	126
3/31/2023	993391	710	7	101
QUARTERLY AVERAGE GPD		4987	90	55

PHASE II, LEACHATE BASIN LDS		
WEEK ENDING	mL	GAL/DAY
1/6/2023	50	0.00
1/12/2023	50	0.00
1/19/2023	50	0.00
1/27/2023	50	0.00
2/3/2023	50	0.00
2/10/2023	50	0.00
2/17/2023	50	0.00
2/24/2023	50	0.00
3/3/2023	50	0.00
3/9/2023	50	0.00
3/17/2023	50	0.00
3/24/2023	50	0.00
3/31/2023	50	0.00
AVERAGE GPD		0.00

PHASE III, STAGE 1 POREWATER	
1ST Q. 2023	529 GAL.
2ND Q. 2023	0 GAL.
3RD Q. 2022	0 GAL.
4TH Q. 2022	0 GAL.
EVACUATED WEEKLY	

PHASE I/III, LEACHATE BASIN POREWATER				
DATE	METER READING	DIFFERENCE	# OF DAYS	AVE/GPD
12/31/2022	604639			
1/6/2023	611299	6660	6	1110
1/12/2023	613865	2566	6	428
1/19/2023	618081	4216	7	602
1/27/2023	623621	5540	8	693
2/3/2023	626166	2545	7	364
2/10/2023	628712	2546	7	364
2/17/2023	633071	4359	7	623
2/24/2023	635922	2851	7	407
3/3/2023	640626	4704	7	672
3/9/2023	646207	5581	6	930
3/17/2023	649771	3564	8	446
3/24/2023	655942	6171	7	882
3/31/2023	662927	6985	7	998
QUARTERLY AVERAGE GPD		58288	90	648

CHAUTAUQUA COUNTY LANDFILL
POREWATER VOLUME REPORT
SECOND QUARTER

PHASE II STAGE 1 PORE WATER VOLUMES				
DATE	METER READING	DIFFERENCE	# OF DAYS	GPD
3/31/2023	993391			
4/5/2023	994222	831	5	166
4/13/2023	995007	785	8	98
4/21/2023	995390	383	8	48
4/28/2023	996024	634	7	91
5/4/2023	996974	950	6	158
5/11/2023	997936	962	7	137
5/19/2023	998247	311	8	39
5/26/2023	998634	387	7	55
6/1/2023	998751	117	6	20
6/9/2023	998986	235	8	29
6/16/2023	999045	59	7	8
6/23/2023	999167	50	7	7
QUARTERLY AVG GPD		5704	84	67

PHASE II, LEACHATE BASIN LDS		
WEEK ENDING	mL	GAL/DAY
4/5/2023	50	0.00
4/13/2023	100	0.00
4/21/2023	75	0.00
4/28/2023	50	0.00
5/4/2023	75	0.00
5/11/2023	75	0.00
5/19/2023	50	0.00
5/26/2023	50	0.00
6/1/2023	50	0.00
6/9/2023	50	0.00
6/16/2023	50	0.00
6/23/2023	50	0.00
AVERAGE G/D		0.00

PHASE III, STAGE 1 POREWATER	
1ST Q. 2023	529 GAL.
2ND Q. 2023	197 GAL.
3RD Q. 2022	0 GAL.
4TH Q. 2022	0 GAL.
EVACUATED DURING SAMPLING	

PHASE I/III, LEACHATE BASIN POREWATER				
DATE	METER READING	DIFFERENCE	# OF DAYS	AVE/GPD
3/31/2023	662927			
4/5/2023	668080	5153	5	1031
4/13/2023	672927	4847	8	606
4/21/2023	674638	1711	8	214
4/28/2023	677245	2607	7	372
5/4/2023	681929	4684	6	781
5/11/2023	685127	3198	7	457
5/19/2023	685697	570	8	71
5/26/2023	686002	305	7	44
6/1/2023	686145	143	6	24
6/9/2023	686308	163	8	20
6/16/2023	686389	81	7	12
6/23/2023	686450	61	7	9
QUARTERLY AVERAGE GPD		23523	84	280

CHAUTAUQUA COUNTY LANDFILL
POREWATER VOLUME REPORT
THIRD QUARTER

PHASE II STAGE 1 PORE WATER VOLUMES				
DATE	METER READING	DIFFERENCE	# OF DAYS	GPD
6/23/2023	999167			
7/7/2023	999209	42	7	6
7/13/2023	999255	46	6	8
7/21/2023	999327	72	8	9
7/28/2023	999512	185	7	26
8/4/2023	999697	185	7	26
8/11/2023	999734	37	7	5
8/18/2023	999785	51	7	7
8/24/2023	999831	46	6	8
9/1/2023	999902	71	8	9
9/8/2023	999961	59	7	8
9/14/2023	999991	30	6	5
9/22/2023	18	27	8	3
9/29/2023	28	10	7	1
QUARTERLY AVG GPD		861	91	9

PHASE II, LEACHATE BASIN LDS		
WEEK ENDING	mL	GAL/DAY
7/7/2023	75	0.00
7/13/2023	175	0.01
7/21/2023	50	0.00
7/28/2023	50	0.00
8/4/2023	50	0.00
8/11/2023	75	0.00
8/18/2023	50	0.00
8/24/2023	75	0.00
9/1/2023	400	0.01
9/8/2023	100	0.00
9/14/2023	50	0.00
9/22/2023	75	0.00
9/29/2023	50	0.00
QUARTERLY AVERAGE GPD		0.00

PHASE III, STAGE 1 POREWATER	
1ST Q. 2023	529 GAL.
2ND Q. 2023	197 GAL.
3RD Q. 2022	1 GAL.
4TH Q. 2022	0 GAL.
EVACUATED DURING SAMPLING	

PHASE I/III, LEACHATE BASIN POREWATER				
DATE	METER READING	DIFFERENCE	# OF DAYS	AVE/GPD
6/23/2023	686450			
7/7/2023	686512	62	7	9
7/13/2023	686532	20	6	3
7/21/2023	686532	0	8	0
7/28/2023	686532	0	7	0
8/4/2023	686532	0	7	0
8/11/2023	686532	0	7	0
8/18/2023	686532	0	7	0
8/24/2023	686532	0	6	0
9/1/2023	686532	0	8	0
9/8/2023	686532	0	7	0
9/14/2023	686532	0	6	0
9/22/2023	686532	0	8	0
9/29/2023	686532	0	7	0
QUARTERLY AVERAGE GPD		82	91	1

CHAUTAUQUA COUNTY LANDFILL
POREWATER VOLUME REPORT
FOURTH QUARTER

PHASE II STAGE 1 PORE WATER VOLUMES				
DATE	METER READING	DIFFERENCE	# OF DAYS	GPD
9/29/2023	28			
10/5/2023	54	26	6	4
10/13/2023	121	67	8	8
10/20/2023	318	197	7	28
10/26/2023	660	342	6	57
11/2/2023	1036	376	7	54
11/9/2023	1234	198	7	28
11/17/2023	1301	67	8	8
11/22/2023	1473	172	5	34
12/1/2023	2284	811	9	90
12/7/2023	4123	1839	6	307
12/14/2023	5822	1699	7	243
12/22/2023	6855	1033	8	129
12/27/2023	8385	1530	5	306
QUARTERLY AVERAGE GPD		8357	89	83

PHASE II, LEACHATE BASIN LDS		
WEEK ENDING	mL	GAL/DAY
10/13/2023	75	0.00
10/20/2023	50	0.00
10/26/2023	50	0.00
11/2/2023	50	0.00
11/9/2023	50	0.00
11/17/2023	50	0.00
11/22/2023	75	0.00
12/1/2023	50	0.00
12/7/2023	50	0.00
12/14/2023	50	0.00
12/22/2023	50	0.00
12/27/2023	50	0.00
AVERAGE GPD		0.00

PHASE III, STAGE 1 POREWATER	
1ST Q. 2023	529 GAL.
2ND Q. 2023	197 GAL.
3RD Q. 2022	1 GAL.
4TH Q. 2022	0 GAL.
EVACUATED DURING SAMPLING	

PHASE I/III, LEACHATE BASIN POREWATER				
DATE	METER READING	DIFFERENCE	# OF DAYS	AVE/GPD
9/29/2023	0			
10/5/2023	686532	0	6	0
10/13/2023	686532	0	8	0
10/20/2023	686532	0	7	0
10/26/2023	686532	0	6	0
11/2/2023	686532	0	7	0
11/9/2023	686532	0	7	0
11/17/2023	686532	0	8	0
11/22/2023	686552	20	5	4
12/1/2023	686674	122	9	14
12/7/2023	689831	3157	6	526
12/14/2023	691562	1731	7	247
12/22/2023	691746	184	8	23
12/27/2023	693558	1812	5	362
QUARTERLY AVERAGE GPD		7026	89	62.1

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
c.)
VOLUME OF LEACHATE REMOVED WEEKLY FOR DISPOSAL
AND DISPOSAL LOCATION

CHAUTAUQUA COUNTY LANDFILL PRIMARY LEACHATE REPORT

JAMESTOWN BOARD OF PUBLIC UTILITIES PUMP READINGS

DATE	Ph2 READING:	Phase 1/3 pump :	GAL PUMPED -	S. STOCKTON =	C. C. L. F.	COMMENT
12/31/2022	69,775,235	58,702,466				
1/31/2023	71,360,725	59,277,873	2,160,897	150,600	2,010,297	January
2/28/2023	72,851,545	60,108,518	2,321,465	224,000	2,097,465	February
3/31/2023	74,333,081	61,134,828	2,507,846	224,000	2,283,846	March
		Total, 1st Quarter to WWTF:	6,990,208	598,600	6,391,608	From C.C.L.F.
					2,432,362	From Ph 1/3
					3,959,246	From Phase 2

CHAUTAUQUA COUNTY LANDFILL PRIMARY LEACHATE REPORT

JAMESTOWN BOARD OF PUBLIC UTILITIES PUMP READINGS

DATE	Ph2 READING:	Phase 1/3 Pump:	GAL PUMPED -	S. STOCKTON =	C. C. L. F.	COMMENT
3/31/2023	74,333,081	61,134,828				
4/30/2023	75,604,510	61,830,861	1,967,462	201,600	1,765,862	April
5/31/2023	76,927,293	62,228,744	1,720,666	179,200	1,541,466	May
6/30/2023	78,075,705	62,541,937	1,461,605	95,200	1,366,405	June
	Total, 2nd Quarter to WWTF:		5,149,733	476,000	4,673,733	From C.C.L.F.
					1,407,109	From Phase 1/3
					3,266,624	From Phase 2

CHAUTAUQUA COUNTY LANDFILL PRIMARY LEACHATE REPORT

JAMESTOWN BOARD OF PUBLIC UTILITIES PUMP READINGS

DATE	Ph2 READING:	Phase 1/3 Pump:	GAL PUMPED -	S. STOCKTON =	C. C. L. F.	COMMENT
6/30/2023	78,075,705	62,541,937				
7/31/2023	78,693,538	62,777,877	853,773	67,200	786,573	July
8/31/2023	79,289,426	62,925,352	743,363	44,800	698,563	August
9/30/2023	80,600,189	63,073,339	1,458,750	5,600	1,453,150	September
	Total, 3rd Quarter to WWTF:		3,055,886	117,600	2,938,286	From C.C.L.F.
					531,402	From Phase 1/3
					2,524,484	From Phase 2

CHAUTAUQUA COUNTY LANDFILL PRIMARY LEACHATE REPORT

JAMESTOWN BOARD OF PUBLIC UTILITIES PUMP READINGS

DATE	READING:		GAL PUMPED -	S. STOCKTON =	C. C. L. F.	COMMENT
9/30/2023	80,600,189	63,073,339				
10/31/2023	81,154,954	63,163,537	644,963	72,800	572,163	October
11/30/2023	81,661,136	63,436,818	779,463	84,000	695,463	November
12/31/2023	83,970,718	64,220,711	3,093,475	123,200	2,970,275	December
	Total, 4th Quarter to WWTF:		4,517,901	280,000	4,237,901	From C.C.L.F.
					1,147,372	From Phase 1/3
					3,090,529	From Phase 2

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
e.)
RESULTS OF LEAK DETECTION CONTAINMENT PIPE INSPECTION

Double Walled Containment Pipe
Inspection Report
First Quarter
2023

- Phase II Pump House ports were inspected weekly January 1st to March 31st . These ports are designated as: 020, 021, 022, and 023. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Port 022 fluid ranged from 0.0 to 5 gallons. Field parameters did not indicate the presence of leachate.

- Phase II Monitoring Chambers Ports were inspected February 8th . These ports are designated as: 001 through 019. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Trace amounts of fluid was detected in ports 001, 005, 006, 007, 008, 009, 010, and 017

- Phase I / III and Vertical Expansion Area ports were inspected weekly January 1st to March 31st . These ports are designated as 024 through 031. Phase I / III monitoring port locations are shown on Figure 45e.2 of this section.

  Port 029 fluid ranged from 0.0 to 218 gallons. Field parameters did not indicate the presence of leachate.

  Field sheets containing detailed information are on file at the Chautauqua County Landfill.

Double Walled Containment Pipe
Inspection Report
Second Quarter
2023

- Phase II Pump House ports were inspected weekly January 1st to March 31st . These ports are designated as: 020, 021, 022, and 023. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Port 022 fluid ranged from 0.0 to 3 gallons. Field parameters did not indicate the presence of leachate.

- Phase II Monitoring Chambers Ports were inspected May 23rd . These ports are designated as: 001 through 019. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Trace amounts of fluid was detected in ports 001, 005, 006, 007, 008, 009, 010,013 and 017

- Phase I / III and Vertical Expansion Area ports were inspected weekly January 1st to March 31st . These ports are designated as 024 through 031. Phase I / III monitoring port locations are shown on Figure 45e.2 of this section.

  Port 029 fluid ranged from 0.0 to 111 gallons. Field parameters did not indicate the presence of leachate.

  Field sheets containing detailed information are on file at the Chautauqua County Landfill.

Double Walled Containment Pipe
Inspection Report
Third Quarter
2023

- Phase II Pump House ports were inspected weekly July 1st to September 30th. These ports are designated as: 020, 021, 022, and 023. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Port 022 fluid ranged from 0.0 to 5 gallons. Field parameters did not indicate the presence of leachate.

- Phase II Monitoring Chambers Ports were inspected September 13th . These ports are designated as: 001 through 019. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Trace amounts of fluid was detected in ports 001, 005, 006, 007, 008, 010 and 017

- Phase I / III and Vertical Expansion Area ports were inspected weekly July 1st to September 30th. These ports are designated as 024 through 031. Phase I / III monitoring port locations are shown on Figure 45e.2 of this section.

  Port 029 fluid ranged from 0.0 to 1 gallons. Field parameters did not indicate the presence of leachate.

  Field sheets containing detailed information are on file at the Chautauqua County Landfill.

Double Walled Containment Pipe
Inspection Report
Fourth Quarter
2023

- Phase II Pump House ports were inspected weekly October 1st to December 31st. These ports are designated as: 020, 021, 022, and 023. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Port 022 fluid ranged from 0.0 to 3 gallons. Field parameters did not indicate the presence of leachate.

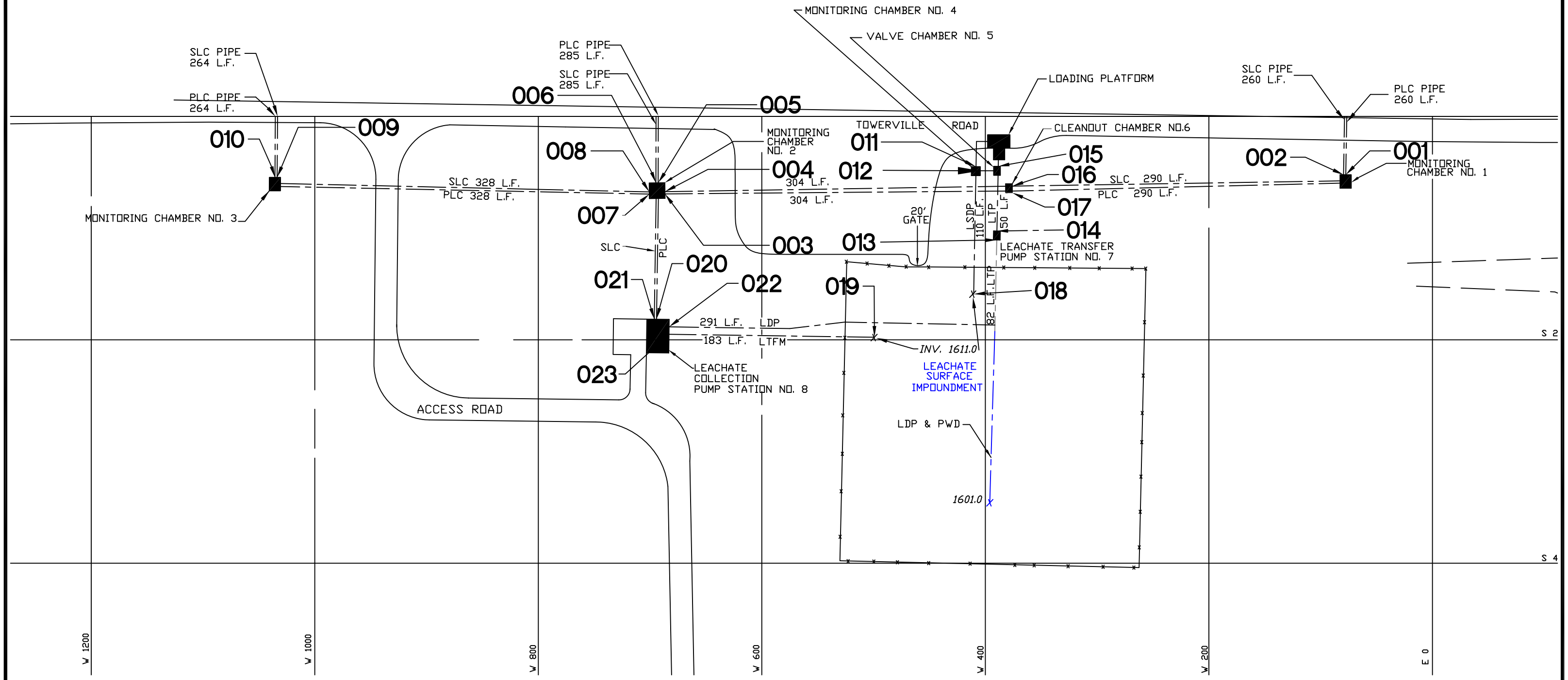
- Phase II Monitoring Chambers Ports were inspected November 14th . These ports are designated as: 001 through 019. Phase II monitoring port locations are shown on Figure 45e.1 of this section.

  Trace amounts of fluid was detected in ports 001,002, 005, 006, 007, 008, 010, 013 and 017

- Phase I / III and Vertical Expansion Area ports were inspected weekly October 1st to December 31st. These ports are designated as 024 through 031. Phase I / III monitoring port locations are shown on Figure 45e.2 of this section.

  Port 029 fluid ranged from 0.0 to 87 gallons. Field parameters did not indicate the presence of leachate.

  Field sheets containing detailed information are on file at the Chautauqua County Landfill.



No	DATE	DESCRIPTION	No	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: M.A.H.
DRAWN BY: T.B.H.
CHECKED BY: T.B.H.
PROJ. MNGR.: K.P.S.

PREPARED BY
Chautauqua County DPW/DSW
3889 Towerville Road
Jamestown, New York 14701

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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SOLID WASTE

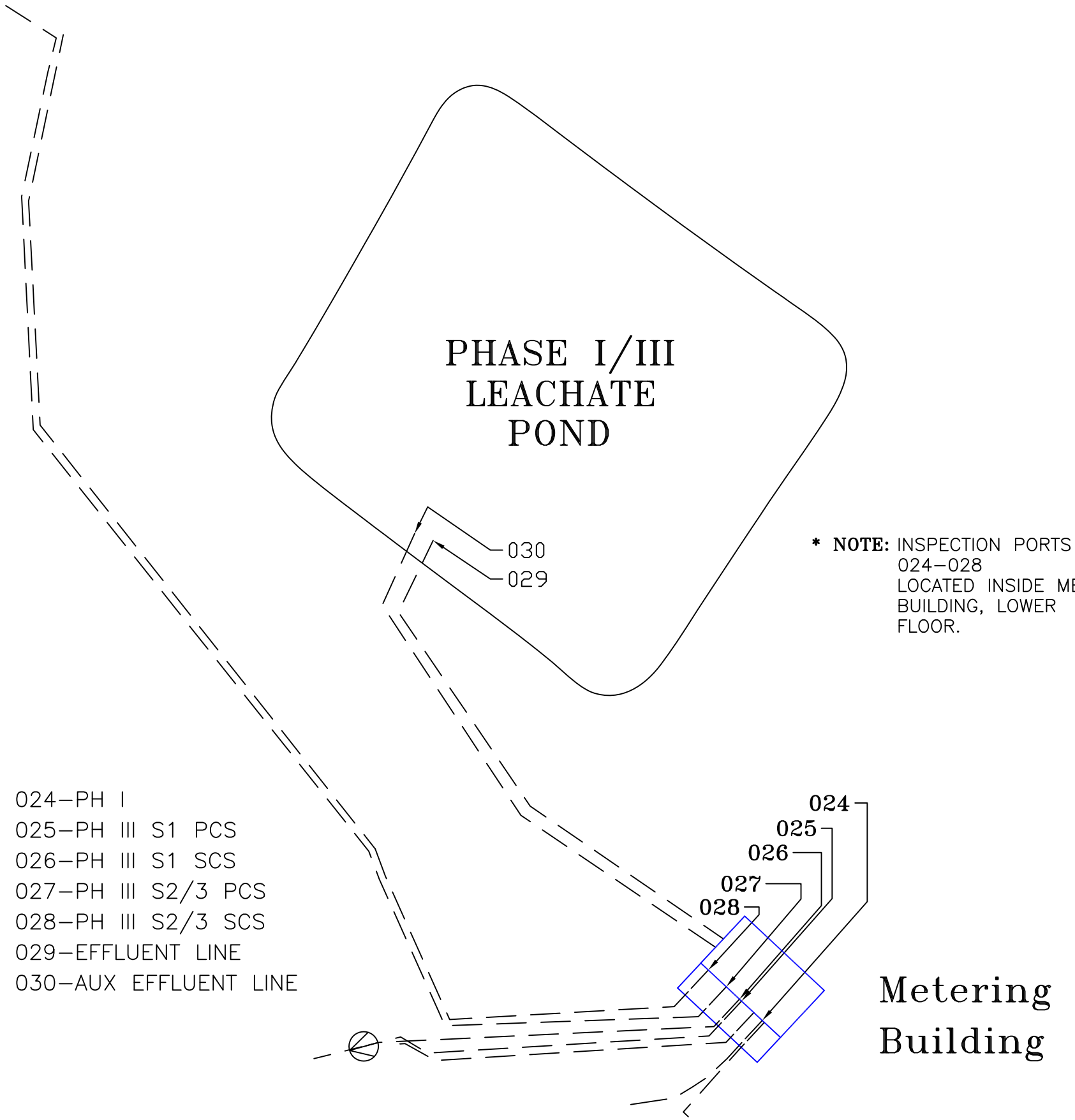
CHAUTAUQUA CO. LANDFILL

ELLERY NEW YORK

CHAUTAUQUA CO. LANDFILL
QUARTERLY SAMPLING
LOCATIONS

PHASE II LEACHATE CLEANOUTS
CONTAINMENT SAMPLING PORTS

SCALE: NA | DATE: 10/21/97 | Figure 45e.1



* **NOTE:** INSPECTION PORTS 024–028 LOCATED INSIDE METER BUILDING, LOWER FLOOR.

024–PH I
025–PH III S1 PCS
026–PH III S1 SCS
027–PH III S2/3 PCS
028–PH III S2/3 SCS
029–EFFLUENT LINE
030–AUX EFFLUENT LINE

No	DATE	DESCRIPTION	No	DATE	DESCRIPTION

REVISIONS

DESIGNED BY: M.A.H.
DRAWN BY: T.B.H.
CHECKED BY: T.B.H.
PROJ. MNGR.: K.P.S.

PREPARED BY
Chautauqua County DPW/DSW
3889 Towerville Road
Jamestown, New York 14701

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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC WORKS
DIVISION OF SOLID WASTE

CHAUTAUQUA CO. LANDFILL

ELLERY NEW YORK

CHAUTAUQUA CO. LANDFILL
QUARTERLY SAMPLING
LOCATIONS

PHASE III METER BUILDING
CONTAINMENT PIPE PORTS

SCALE: NA | DATE: 3/13/97 | Figure 45e.2

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
f.) and h.)
AMOUNT OF WASTE RECEIVED AND VEHICLE COUNT

CHAUTAUQUA COUNTY LANDFILL
TONNAGE SUMMARY FIRST QUARTER 2023

	Jan	Feb	Mar	TOTALS	
	PH IV	PH IV	PH IV	PH IV	FACILITY
TRAFFIC:(number of trucks)				0	0
IN COUNTY:					
ASBESTOS	1	1	5	7	7
ASH BOTTOM / FLY	0	0	0	0	0
C & D	1,492	2,048	1,758	5,298	5,298
INDUSTRIAL	1,083	1,118	1,087	3,288	3,288
MSW	7,450	6,327	6,855	20,632	20,632
OIL & GAS	0	0	0	0	0
BUM	0	0	0	0	0
SAND REFRACTORY	0	0	0	0	0
SLUDGE INDUSTRIAL	327	364	359	1,050	1,050
SLUDGE MUNICIPAL	1,454	1,255	1,408	4,116	4,116
SOIL	8	90	0	98	98
TOTAL IN COUNTY	**11,816**	**11,201**	**11,471**	**34,488**	**34,488**
OUT OF COUNTY:					
ASBESTOS					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	48	48	48
ERIE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0
ASH BOTTOM / FLY					
PENNSYLVANIA	0	0	0	0	0
C & D					
ALBANY COUNTY	0	0	0	0	0
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	284	175	569	1,028	1,028
ERIE COUNTY	81	13	16	110	110
MONROE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	0	0	0	0
ONTARIO COUNTY	0	0	0	0	0
OHIO	0	0	0	0	0
PENNSYLVANIA	262	469	439	1,170	1,170
INDUSTRIAL					
CATTARAUGUS COUNTY	6	0	0	6	6
ERIE COUNTY	0	0	0	0	0
PENNSYLVANIA	494	523	433	1,450	1,450
MSW					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	1,336	1,432	1,615	4,384	4,384
ERIE COUNTY	595	353	479.97	1,428	1,428
PENNSYLVANIA	989	721	939	2,648	2,648
OIL & GAS					
PENNSYLVANIA	0	0	0	0	0
SAND REFRACTORY					
PENNSYLVANIA	0	0	0	0	0
SLUDGE INDUSTRIAL					
CATTARAUGUS COUNTY	**0**	**0**	**0**	0	0
ERIE COUNTY	0	36	0	36	36
PENNSYLVANIA	13	0	8	21	21
SLUDGE MUNICIPAL					
CATTARAUGUS COUNTY	132	129	129	390	390
ERIE COUNTY	0	0	0	0	0
PENNSYLVANIA	192	229	162	582	582
OHIO	10	0	22	32	32
SOIL					
Allegany County	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
ONEIDA	0	0	0	0	0
PENNSYLVANIA	0	316	201	517	517
TOTAL OUT OF COUNTY	**4,394**	**4,396**	**5,061**	**13,851**	**13,851**
TOTAL RECEIVED	**16,209.48**	**15,597.19**	**16,532.50**	**48,339.17**	**48,339**

BREAKDOWN BY AREA		PERCENT
ALBANY COUNTY	**0**	0.00%
ALLEGANY COUNTY	0	0.00%
CATTARAUGUS COUNTY	5,855	12.11%
CHAUTUAQUA COUNTY	34,488	71.35%
ERIE COUNTY	1,574	3.26%
MONROE COUNTY	0	0.00%
NIAGARA COUNTY	0	0.00%
WYOMING COUNTY	0	0.00%
OHIO	32	0.07%
PENNSYLVANIA	6,389	13.22%
TOTAL	**48,339**	100.00%

CHAUTAUQUA COUNTY LANDFILL
TONNAGE SUMMARY SECOND QUARTER 2023

	Apr	May	Jun	TOTALS	
	PH IV	PH IV	PH IV	PH IV	FACILITY
TRAFFIC:(number of trucks)				0	0
IN COUNTY:					
ASBESTOS	114	7	8	129	129
ASH BOTTOM / FLY	0	0	0	0	0
C & D	2,040	2,391	2,448	6,880	6,880
INDUSTRIAL	952	1,063	980	2,996	2,996
MSW	6,780	7,922	8,157	22,859	22,859
OIL & GAS	0	0	0	0	0
BUM	0	0	0	0	0
SAND REFRACTORY	0	0	0	0	0
SLUDGE INDUSTRIAL	238	315	256	809	809
SLUDGE MUNICIPAL	1,149	1,099	1,254	3,502	3,502
SOIL	39	4	132	175	175
TOTAL IN COUNTY	**11,312**	**12,803**	**13,236**	**37,351**	**37,351**
OUT OF COUNTY:					
ASBESTOS					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	1	1	1
ERIE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0
ASH BOTTOM / FLY					
PENNSYLVANIA	0	5	0	5	5
C & D					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	387	316	406	1,109	1,109
ERIE COUNTY	31	47	104	181	181
MONROE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	4	2	7	7
WYOMING COUNTY	0	0	0	0	0
PENNSYLVANIA	376	450	181	1,008	1,008
INDUSTRIAL					
CATTARAUGUS COUNTY	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
PENNSYLVANIA	431	367	332	1,130	1,130
MSW					
ALBANY COUNTY	0	0	0	0	0
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	1,735	1,996	2,106	5,837	5,837
ERIE COUNTY	423	511	506	1,441	1,441
MONROE COUNTY	0	0	0	0	0
PENNSYLVANIA	828	1,785	1,843	4,456	4,456
OIL & GAS					
PENNSYLVANIA	0	0	0	0	0
SAND REFRACTORY					
PENNSYLVANIA	0	0	0	0	0
SLUDGE INDUSTRIAL					
ERIE COUNTY	0	46	0	46	46
MAINE	0	0	0	0	0
PENNSYLVANIA	14	0	12	26	26
ASHTABULA (OH)	0	0	0	0	0
SLUDGE MUNICIPAL					
CATTARAUGUS COUNTY	199	175	155	530	530
ASHTABULA (OH)	0	13	10	23	23
PENNSYLVANIA	288	301	265	854	854
SOIL					
Allegany County	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
PENNSYLVANIA	125	68	686	880	880
STEUBEN COUNTY	0	0	0	0	0
TIOGA COUNTY	0	0	9	9	9
TOTAL OUT OF COUNTY	**4,838**	**6,086**	**6,617**	**17,541**	**17,541**
TOTAL RECEIVED	**16,149.80**	**18,888.95**	**19,853.45**	**54,892.20**	**54,892**

BREAKDOWN BY AREA		PERCENT
ALLEGANY COUNTY	0	0.00%
CATTARAUGUS COUNTY	7,477	13.62%
CHAUTUAQUA COUNTY	37,351	68.04%
ERIE COUNTY	1,668	3.04%
MONROE COUNTY	0	0.00%
NIAGARA COUNTY	7	0.01%
WESTCHESTER COUNTY	0	0.00%
WYOMING COUNTY	0	0.00%
OHIO	23	0.04%
PENNSYLVANIA	8,358	15.23%
TIOGA COUNTY	9	0.02%
TOTAL	**54,892**	100.00%

CHAUTAUQUA COUNTY LANDFILL
TONNAGE SUMMARY THIRD QUARTER 2023

	Jul	Aug	Sep	TOTALS	
	PH I Exp.	PH I Exp.	PH I Exp.	PH IV	FACILITY
TRAFFIC:(number of trucks)				0	0
IN COUNTY:					
ASBESTOS	0	1	96	97	97
ASH BOTTOM / FLY	0	0	0	0	0
C & D	2,151	2,281	2,471	6,904	6,904
INDUSTRIAL	948	1,124	952	3,025	3,025
MSW	7,992	8,669	7,464	24,124	24,124
OIL & GAS	0	0	0	0	0
BUM	0	0	0	0	0
SAND REFRACTORY	0	0	0	0	0
SLUDGE INDUSTRIAL	252	307	325	885	885
SLUDGE MUNICIPAL	1,028	1,088	988	3,103	3,103
SOIL	216	0	18	233	233
TOTAL IN COUNTY	**12,587**	**13,470**	**12,314**	**38,371**	**38,371**
OUT OF COUNTY:					
ASBESTOS					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0
ASH BOTTOM / FLY					
PENNSYLVANIA	0	0	0	0	0
C & D					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	375	240	585	1,199	1,199
ERIE COUNTY	289	175	117	581	581
MONROE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	2	0	2	2
WYOMING COUNTY	0	0	0	0	0
PENNSYLVANIA	235	330	206	771	771
INDUSTRIAL					
CATTARAUGUS COUNTY	0	0	7	7	7
ERIE COUNTY	0	1	12	13	13
PENNSYLVANIA	287	358	335	980	980
MSW					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	1,890	2,003	1,842	5,735	5,735
ERIE COUNTY	488	475	448	1,411	1,411
ONONDAGA COUNTY	0	0	0	0	0
OSWEGO COUNTY	0	0	0	0	0
PENNSYLVANIA	1,682	1,152	1,122	3,955	3,955
OIL & GAS					
PENNSYLVANIA	0	0	0	0	0
SAND REFRACTORY					
PENNSYLVANIA	0	0	0	0	0
SLUDGE INDUSTRIAL					
ERIE COUNTY	102	0	28	130	130
PENNSYLVANIA	13	13	0	26	26
SLUDGE MUNICIPAL					
CATTARAUGUS COUNTY	113	139	118	370	370
OHIO	0	0	0	0	0
PENNSYLVANIA	313	146	312	771	771
SOIL					
Allegany County	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
PENNSYLVANIA	0	52	30	82	82
WYOMING COUNTY	0	0	0	0	0
TOTAL OUT OF COUNTY	**5,787**	**5,086**	**5,162**	**16,035**	**16,035**

BREAKDOWN BY AREA		PERCENT
ALLEGANY COUNTY	0	0.00%
CATTARAUGUS COUNTY	7,312	13.44%
CHAUTUAQUA COUNTY	38,371	70.53%
ERIE COUNTY	2,135	3.92%
MONROE COUNTY	0	0.00%
NIAGARA COUNTY	2	0.00%
OHIO	0.00	0.00%
WYOMING COUNTY	0.00	0.00%
PENNSYLVANIA	6,586	12.11%
TOTAL	**54,406**	100.00%

CHAUTAUQUA COUNTY LANDFILL
TONNAGE SUMMARY FOURTH QUARTER 2023

	Oct	Nov	Dec	TOTALS	
	PH I Exp.	PH I Exp.	PH I Exp.	PH I Exp.	FACILITY
TRAFFIC:(number of trucks)				0	0
IN COUNTY:					
ASBESTOS	49	6	17	71	71
ASH BOTTOM / FLY	0	0	0	0	0
C & D	2,708	2,592	2,509	7,809	7,809
INDUSTRIAL	993	795	868	2,655	2,655
MSW	8,097	7,700	7,324	23,121	23,121
OIL & GAS	0	0	0	0	0
BUM	0	0	1,289	1,289	1,289
SAND REFRACTORY	0	0	0	0	0
SLUDGE INDUSTRIAL	258	199	302	759	759
SLUDGE MUNICIPAL	1,086	765	1,189	3,041	3,041
SOIL	39	0	11	51	51
TOTAL IN COUNTY	**13,230**	**12,057**	**13,508**	**38,795**	**38,795**
OUT OF COUNTY:					
ASBESTOS					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
ERIE COUNTY	44	12	0	56	56
NIAGARA COUNTY	0	0	0	0	0
PENNSYLVANIA	0	0	0	0	0
ASH BOTTOM / FLY					
ERIE COUNTY	**0**	**0**	**0**	0	0
PENNSYLVANIA	0	0	5	5	5
C & D					
ALLEGANY COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	558	345	331	1,234	1,234
ERIE COUNTY	91	36	54	182	182
MONROE COUNTY	0	0	0	0	0
NIAGARA COUNTY	0	0	0	0	0
OHIO	0	0	0	0	0
WYOMING COUNTY	0	0	0	0	0
PENNSYLVANIA	221	89	349	659	659
INDUSTRIAL					
CATTARAUGUS COUNTY	4	0	4	8	8
ERIE COUNTY	0	0	0	0	0
PENNSYLVANIA	222	359	253	834	834
MSW					
ALLEGANY COUNTY	2	0	0	2	2
CATTARAUGUS COUNTY	1,637	1,383	1,356	4,376	4,376
ERIE COUNTY	484	341	320	1,145	1,145
OHIO	0	0	0	0	0
PENNSYLVANIA	1,045	959	1,775	3,779	3,779
OIL & GAS					
PENNSYLVANIA	0	0	0	0	0
SAND REFRACTORY					
PENNSYLVANIA	0	0	0	0	0
SLUDGE INDUSTRIAL					
CaTTARAUGUS COUNTY	**0**	**0**	**0**	0	0
ERIE COUNTY	0	0	0	0	0
MASSACHUSETTS	0	0	0	0	0
PENNSYLVANIA	15	0	0	15	15
SLUDGE MUNICIPAL					
CATTARAUGUS COUNTY	129	111	142	383	383
ERIE COUNTY	0	0	0	0	0
OHIO	0	8	0	8	8
PENNSYLVANIA	386	233	191	810	810
SOIL					
Allegany County	0	0	0	0	0
ERIE COUNTY	0	0	0	0	0
CATTARAUGUS COUNTY	0	0	0	0	0
PENNSYLVANIA	3	508	208	719	719
TOTAL OUT OF COUNTY	**4,842**	**4,383**	**4,988**	**14,213**	**14,213**
TOTAL RECEIVED	**18,072.34**	**16,439.67**	**18,495.47**	**53,007.48**	**53,007**

BREAKDOWN BY AREA		PERCENT
ALLEGANY COUNTY	2	0.00%
CATTARAUGUS COUNTY	6,000	11.32%
CHAUTUAQUA COUNTY	38,795	73.19%
ERIE COUNTY	1,382	2.61%
MASSACHUSETTS	0	2.61%
MONROE COUNTY	0	0.00%
NIAGARA COUNTY	0	0.00%
OHIO	8	0.01%
PENNSYLVANIA	6,821	12.87%
TOTAL	**53,007**	100.00%

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
g.)
ANALYTICAL RESULTS
UPSTATE LABORATORIES, INC.
BOUND REPORTS

Regarding Supplementary Condition 45g
See Quarterly Reports

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #45
i.)
LANDFILL GAS MONITORING REPORT

CHAUTAUQUA COUNTY LANDFILL DECOMPOSITION GAS MONITORING

FIRST QUARTER 2023

02/08/23

TIME OF READING	LOCATION	CH_4 % VOL	H_2S PPM	O_2 %	SAMPLE POINT
11:30	Administration Building	0.0%	0	20.6%	Outside
10:38	GMW 91-1 Condin Rd.	0.0%	0	20.7%	In PVC well casing
10:41	GMW 91-2 Condin Rd.	0.0%	0	20.5%	
10:58	GMW 91-3 Condin Rd.	0.0%	0	20.6%	
11:01	GMW 91-4 Inside Gate	0.0%	0	20.6%	
11:10	Maintenance Building	0.0%	0	20.7%	Floor drain
11:35	PHASE III Meter House Lower Level	0.0%	0	20.6%	Floor drain
11:15	PHASE II Monitoring Chamber 1 3 Walls	0.0%	0	20.8%	4' below entry
11:19	PHASE II Monitoring Chamber 2 North of Ph II Pump House	0.0%	0	20.9%	
11:24	PHASE II Monitoring Chamber 3 Phase II Stage 3	0.0%	0	20.9%	
11:28	PHASE II Monitoring Chamber 4 South of Loading Platform	0.0%	0	20.6%	

HYDROGEN SULFIDE MONITORING WAS PERFORMED WITH AN INDUSTRIAL SCIENTIFIC ITX GAS MONITOR. THE CH_4% AND THE O_2% WERE PERFORMED WITH A LANDTEC GEM 2000 METHANE DETECTOR, S/N 11675109, CALIBRATED 5/19/2021.

CHAUTAUQUA COUNTY LANDFILL DECOMPOSITION GAS MONITORING

SECOND QUARTER 2023

Date: 5/ 4 / 2023

TIME OF READING	LOCATION	CH_4 % VOL	H_2S PPM	O_2 %	SAMPLE POINT
11:20	Administration Building	0.0%	0	20.6%	Outside
10:31	GMW 91-1 Condin Rd.	0.0%	0	20.5%	In PVC well casing
10:34	GMW 91-2 Condin Rd.	0.0%	0	20.5%	
10:37	GMW 91-3 Condin Rd.	0.0%	0	20.6%	
10:43	GMW 91-4 Inside Gate	0.0%	0	20.7%	
10:51	Maintenance Building	0.0%	0	20.8%	Floor drain
10:55	PHASE III Meter House Lower Level	0.2%	0	20.1%	Floor drain Note: Vent Fan was ON
10:59	PHASE II Monitoring Chamber 1 3 Walls	0.0%	0	20.2%	4' below entry
11:04	PHASE II Monitoring Chamber 2 North of Ph II Pump House	0.0%	0	20.2%	
11:09	PHASE II Monitoring Chamber 3 Phase II Stage 3	0.0%	0	20.6%	
11:13	PHASE II Monitoring Chamber 4 South of Loading Platform	0.0%	0	20.2%	

HYDROGEN SULFIDE MONITORING WAS PERFORMED WITH AN INDUSTRIAL SCIENTIFIC ITX GAS MONITOR. THE CH_4% AND THE O_2% WERE PERFORMED WITH A ELKINS EARTHWORKS ENVISION S/N 2008202B, CALIBRATED 5/4/2023.

CHAUTAUQUA COUNTY LANDFILL DECOMPOSITION GAS MONITORING
THIRD QUARTER 2023
8 /21/ 23

TIME OF READING	LOCATION	CH_4 % VOL	H_2S PPM	O_2 %	SAMPLE POINT
10:00	Administration Building	0.0%	0	20.8%	Outside
10:15	GMW 91-1 Condin Rd.	0.0%	0	20.5%	In PVC well casing
10:25	GMW 91-2 Condin Rd.	0.0%	0	20.6%	
10:35	GMW 91-3 Condin Rd.	0.0%	0	20.5%	
10:45	GMW 91-4 Inside Gate	0.0%	0	20.7%	
11:00	Maintenance Building	0.0%	0	20.7%	Floor drain
11:15	PHASE III Meter House Lower Level	0.0%	0	20.8%	Floor drain Fan on
11:30	PHASE II Monitoring Chamber 1 3 Walls	0.0%	0	20.8%	4' below entry
11:40	PHASE II Monitoring Chamber 2 North of Ph II Pump House	0.0%	0	20.7%	
11:50	PHASE II Monitoring Chamber 3 Phase II Stage 3	0.0%	0	20.7%	
12:00	PHASE II Monitoring Chamber 4 South of Loading Platform	0.0%	0	20.7%	

HYDROGEN SULFIDE MONITORING WAS PERFORMED WITH AN INDUSTRIAL SCIENTIFIC ITX GAS MONITOR. THE CH_4% AND THE O_2% WERE PERFORMED WITH A ELKINS EARTHWORKS ENVISION S/N 2008202B, CALIBRATED 8/21/2023.

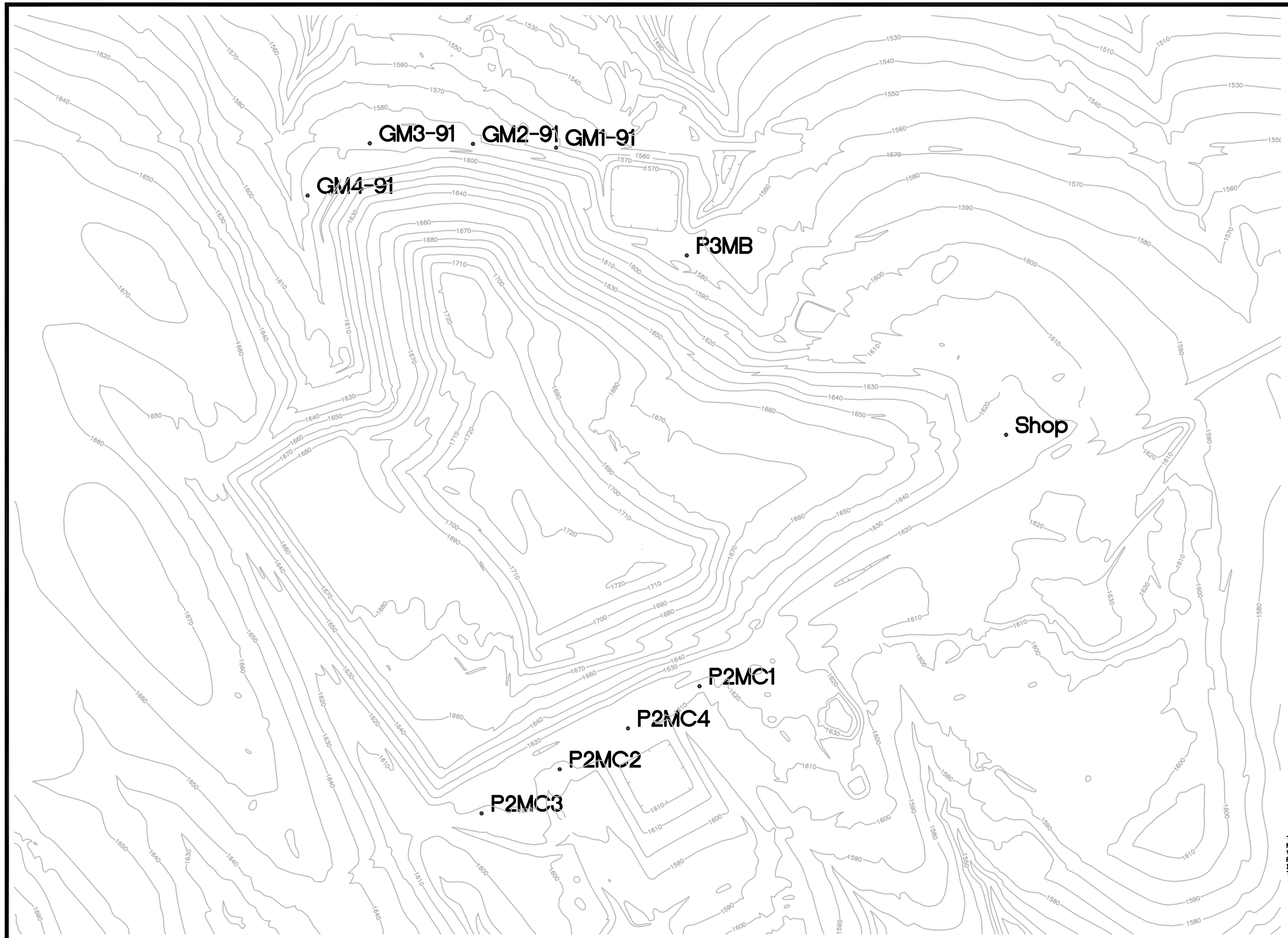
CHAUTAUQUA COUNTY LANDFILL DECOMPOSITION GAS MONITORING

FOURTH QUARTER 2023

Date: 11 /14 / 2023

TIME OF READING	LOCATION	CH_4 LEL%	H_2S PPM	O_2 %	SAMPLE POINT
2:00	Administration Building	0%	0	20.6%	Outside
12:25	GMW 91-1 Condin Rd.	0%	0	20.4%	In PVC well casing
12:40	GMW 91-2 Condin Rd.	0%	0	20.4%	
12:45	GMW 91-3 Condin Rd.	0%	0	20.4%	
12:50	GMW 91-4 Inside Gate	0%	0	20.5%	
1:25	Maintenance Building	0%	0	20.3%	Floor drain
1:30	PHASE III Meter House Lower Level	0%	0	20.4%	Floor drain
1:21	PHASE II Monitoring Chamber 1 3 Walls	0%	0	20.6%	4' below entry
1:18	PHASE II Monitoring Chamber 2 North of Ph II Pump House	0%	0	20.1%	
1:15	PHASE II Monitoring Chamber 3 Phase II Stage 3	0%	0	20.6%	
1:10	PHASE II Monitoring Chamber 4 South of Loading Platform	0%	0	20.4%	

HYDROGEN SULFIDE MONITORING WAS PERFORMED WITH AN INDUSTRIAL SCIENTIFIC ITX GAS MONITOR. THE CH_4% AND THE O_2% WERE PERFORMED WITH A ELKINS EARTHWORKS ENVISION S/N 2008202B, CALIBRATED 11/14/2023.



N

LEGEND

TB-6 1570.45 GROUNDWATER MONITORING WELL AND ASSOCIATED PIEZIOMETRIC ELEVATION

SURFACE CONTOUR LINES

FENCE LINE

PHASE BOUNDARY LIMITS

0 100 200 300 400

NOTE:
THE CONTOURS DEPICTED ON THIS MAP WERE COMPILED TO NATIONAL MAP ACCURACY STANDARDS BY KUCERA INTERNATIONAL INC., WILLOUGHBY, OHIO, USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHY TAKEN 05/15/08. CONTOURS WHICH ARE IN WOODED OR DENSE VEGETATION AREAS ARE APPROXIMATIONS ONLY AND SHOULD BE TREATED AS "DASHED CONTOURS".

No	DATE	DESCRIPTION	No	DATE	DESCRIPTION

REVISIONS

I:\Landfill\Private\Engineer\08 QTRLY\Report Docs\Q_08-Qtrly.dwg

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DRAWN BY: T.B.H.
CHECKED BY: T.B.H.
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CHAUTAUQUA COUNTY
DEPARTMENT OF PUBLIC FACILITIES
DIVISION OF SOLID WASTE
CHAUTAUQUA COUNTY LANDFILL
ELLERY NEW YORK

CHAUTAUQUA COUNTY LANDFILL
MONITORING WELL LOCATIONS

SOIL GAS LOCATIONS

SCALE: 1" = 400' | 5/19/2008 | FIGURE 45i

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #46

TOPOGRAPHIC SURVEY AND
SITE LIFE CALCULATION

Regarding Supplementary Condition 46
Submitted Under Separate Cover

SUPPLEMENTARY CONDITIONS
QUARTERLY/ANNUAL REPORTS #47

UPDATED COST ESTIMATES AND
INDEPENDENT AUDITOR CERTIFICATION
(ANNUAL REPORT)

Regarding Supplementary Condition 47
Submitted Under Separate Cover