

RADIOLOGICAL SURVEY & SAMPLING RESULTS

MORGAN DRIVE LOT 3
MT KISCO, NY

October 2017

Prepared By:

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TABLE OF CONTENTS

EXECUTIVE SUMMARY	3
WORK PLAN.....	4
WWTP COMPONENT WALKOVER.....	7
SITEWIDE WALKOVER.....	8
SAMPLE ANALYSIS	9
Aqueous Samples.....	9
Solid Samples.....	11
CONCLUSIONS.....	14

APPENDIX A – Survey Work Plan

APPENDIX B – Sitewide Walkover Survey

APPENDIX C – Soil Drying Bed #1 Survey

APPENDIX D – Soil Drying Bed #2 Survey

APPENDIX E – Sprinkling Filter Bed Survey

APPENDIX F – Soil Drying Bed #1 Samples

APPENDIX G – Soil Drying Bed #2 Samples

APPENDIX H – Hotspot Samples

APPENDIX I – Sample Geolocation

APPENDIX J – Laboratory Results

EXECUTIVE SUMMARY

This Report presents the results of the radiological walkover survey and sampling conducted by Great Lakes Environmental & Safety Consultants, Inc. (“Great Lakes”), on August 21 and 22, 2017, at Morgan Drive Lot 3, 2 Morgan Drive, Mount Kisco, New York 10549 (the “Site”). The purpose of the survey and sampling was to identify potential radioactivity hotspots associated with historical use of the site as a wastewater treatment plant (“WWTP”). The survey was completed pursuant to the approved plan and procedures outlined in the Work Plan dated June 21, 2017.

The site consists of one parcel that is approximately 5.7 acres in size. The property is generally flat and the majority of the property is an open field with brush and small trees, but a portion of the site is overgrown and densely wooded. Several structures from the former WWTP remain on the property.

The sitewide gamma walkover of accessible areas observed average activity levels not significantly greater than background levels. Significantly elevated activity levels were observed, however, in three hotspots across the site. Biased samples were taken from these three hotspots, the results of which confirmed significantly greater activity than background, specifically for the Radium-226 radionuclide.

Gamma walkovers of remaining structural components of the WWTP observed average activity levels not significantly greater than background levels. Samples were taken from the Soil Drying Bed #1, Soil Drying Bed #2, and Sprinkling Filter Bed #2, the results of which indicated some activity greater than background.

Great Lakes recommends a remedial action plan be developed that addresses the removal and disposal of soil in areas identified with elevated radioactivity. Construction and excavation activities should be monitored to ensure all spoils removed from the site are below acceptable levels.

WORK PLAN

Task 1.1 WWTP Component Walkover Surveys

Under this task, Great Lakes used field measurement instruments to conduct a gamma walkover survey to detect for the presence of gamma emitting radionuclides and their progeny at various locations on the site. Great Lakes utilized a calibrated Ludlum 2221 ratemeter equipped with Model 44-2 scintillation sodium iodide detectors under this task.

Gamma walkover surveys were performed in the following areas (area numbers correspond to Survey Work Plan, attached as **Appendix A**):

1. Sludge Drying Bed #1
5. Sludge Drying Bed #2
8. Sprinkling Bed

Gross gamma surveys were recorded in units of counts per minute (cpm) across the walkover areas. A two-dimensional walkover survey diagram is included in **Appendix B**, noting the average background activity at each of the locations and representative readings across the walkover area, presented as a range of cpm for each ~100 square feet (e.g., 7,000-8,000 cpm)

Background radiation levels were documented both in areas on-site and in areas that are not impacted by the site and marked on the walkover surveys accordingly. Background radiation is established in order to verify that the results are not influenced by imported materials or equipment that may contain elevated concentrations of radionuclides.

Task 1.2 Hauling Activity Area Walkover Survey

Based on its understanding of historical operations and cleanup activities, Great Lakes believes the unvegetated areas inferred to be ingress and egress for the hauling of dried sludge may potentially contain radioactive spoils left behind from operations. (Area #3 on the Survey Work Plan, attached as **Appendix A**).

The gamma survey of these areas was conducted in a similar method to that of Task 1.1 and all measurements recorded for incorporation into this Report.

Task 2 Field Sampling

Under this task, Great Lakes collected representative samples of environmental media from the site for laboratory analysis. Sampling locations were selected based on the initial visit and analysis of historical uses of each component of the WWTP. The following field samples were collected:

- Solid samples (surficial) – 11 soil samples were collected from distributed locations onsite (area numbers refer to the Survey Work Plan, attached as **Appendix A**):
 1. Sludge Drying Bed #1 – samples of filter media to be obtained at sampling frequency of one sample per 900 square foot area (4 samples)
 2. Pond #2 – sediment samples obtained from bottom of pond via technician wading into pond (2 samples)
 4. Pond #1 – sediment sample to be obtained from bottom of pond via technician wading into pond (1 sample)
 5. Sludge Drying Bed #2 – samples of filter media to be obtained at sampling frequency of one sample per 900 square foot area (4 samples)
 6. Primary Tank #2 – Inaccessible due to safety concerns
 7. Primary Tank #1 – Inaccessible due to safety concerns
- Water samples – 2 aqueous samples were collected from the following areas in which water has accumulated on-site:
 2. Pond #2 – composite aqueous sample obtained via technician wading into pond (1 sample)
 4. Pond #1 – composite aqueous sample obtained via technician wading into pond (1 sample)
 6. Primary Tank #1 & #2 – Inaccessible due to safety concerns

The quantity of samples at each location was determined based on Technical Guidance for Site Investigation and Remediation recommended sampling frequency of one sample per 900 square feet of area, unless otherwise noted.

Solid samples were collected using reusable sampling tools (e.g., stainless steel trowels/augers). Dedicated sampling equipment was for this project. Sampling tools were decontaminated with Alconox prior to first use on-site, between samples, between sampling locations, and following last use on-site.

Samples were placed in labeled sample containers. All sampling information was recorded in the field logbook. A chain-of-custody was completed which includes sample identification with the date, time, type, area, and GPS location of collection. The sampler secured the cooler with a custody seal for shipment to the laboratory.

GPS coordinates of all sample locations were logged using a Trimble Geo 7 handheld GPS sensor. Locations were plotted on an existing survey to identify relative locations.

Aqueous samples were collected using plastic bailers from each water sampling location and transferred to 1-liter plastic containers. Field preservation with nitric acid was not required, as the laboratory received the samples within one business day.

The samples selected for analysis were placed into laboratory-provided containers immediately following collection and labels were promptly affixed to the sample containers. The samples were transported via delivery service under chain-of-custody control to the off-site laboratory for analysis, and were analyzed for gross alpha/beta (USEPA Method 900.0 for aqueous samples, Method 9310 for solids), Ra-226 (USEPA Method 901.1 for solids, Method 903.1 for aqueous samples), Ra-228 (USEPA Method 901.1 for solids, Method 904.0 for aqueous samples). No minimum detection limit was specified to the laboratory and results will be reported in minimum detectable concentrations. Sampling methods and quantities are summarized in the table below:

Type	USEPA Method	Description	Quantity
Solid	9310	Gross Alpha & Gross Beta (GFPC)	14
Solid	901.1	Radium-226 & Radium-228 (GS)	
Water	900.0	Gross Alpha & Gross Beta GFPC)	2
Water	903.1	Radium-226 (GFPC)	
Water	904.0	Radium-228 (GFPC)	

GFPC - gas flow proportional counter

GS - gamma scan

Laboratory analysis was performed by Pace Analytical Services, LLC – Pittsburgh, PA (ELAP ID: 10888), with a turnaround time of 20 business days. Laboratory results are attached as **Appendix J**.

WWTP COMPONENT WALKOVER

On August 21, 2017, Great Lakes conducted a gamma walkover survey over each of the remaining structural components of the WWTP, including the two solid drying beds and the sprinkling filter bed.

For each of the components, Great Lakes created a grid of approximately 100 square foot areas and recorded a range of gross counts per minute (cpm) for each area (+/- 1,000 cpm).

Soil Drying Bed #1 (SD-1)

Soil Drying Bed #1 is located in the far western portion of the site. It is an approximately 36' x 80' (~2,880 square foot) rectangular structure with ~3 foot concrete walls, the floor of which is loamy soil.

The walkover survey of SD-1 (attached as **Appendix C**) observed a maximum activity of ~13,200 counts per minute and an average activity of 10,500 counts per minute across the 32 areas measured.

Soil Drying Bed #2 (SD-2)

Soil Drying Bed #1 is located in the center of the site. It is an approximately 36' x 96' (~3,500 square foot) rectangular structure with ~3 foot concrete walls, the floor of which is loamy soil.

The walkover of SD-2 (attached as **Appendix D**) observed a maximum activity of ~13,600 counts per minute and an average activity of ~10,500 counts per minute across the 32 areas measured.

Sprinkling Filter Bed

Sprinkling Filter Bed is located in the eastern portion of the site. It is an approximately 120' x 120' (~14,000 square foot) rectangular structure with ~3 foot concrete walls, the floor of which is a rocky filtering media that appears to extend several feet below the surface. A concrete wall divides the structure into two sections from southeast to northwest.

The walkover survey of SFB (attached as **Appendix E**) observed a maximum activity of ~15,700 counts per minute and an average activity of ~12,700 counts per minute across the 80 areas measured.

SITEWIDE WALKOVER

On August 21, 2017, Great Lakes personnel performed a gamma walkover in areas inferred to be ingress and egress for the hauling of dried sludge that may potentially contain radioactive spoils left behind from operations. A diagram showing the results of the survey, labeled in counts per minute (+/- 1,000) is attached as **Appendix B**.

Surface gamma radiological data was obtained using Ludlum Model 44-10 2" X 2" NaI gamma scintillation detectors. A grid was established across all accessible areas, with each grid encompassing approximately 100 square feet.

Surveyors traveled at a speed of approximately 1.6 feet per second with the detectors about 4 inches above the ground surface. Gamma count rates were recorded in real time. Static background counts were obtained on either side of the site (both ~9,000 cpm).

The average gamma count observed during the walkover was approximately 9,300 cpm.

The survey identified three locations of elevated gamma count rates that suggest possible concentrations of radioactivity that are elevated with respect to background levels ("hotspots"). These hotspots are labeled as HS-1, HS-2, and HS-3 on the walkover diagram. Biased soil samples were obtained from each of the three hotspots, from a depth of approximately six inches below the surface.

- HS-1 was taken from an area between the Primary Tank and Sprinkling Filter Bed. Average gamma activity in the area was ~9,500 cpm, and the hotspot was measured at ~137,000 cpm. A biased sample was taken at this location, the character of which was dry loamy soil.
- HS-2 was taken from an area on the northwestern edge of Pond #2. Average gamma activity in the area was ~11,500 cpm, and the hotspot was measured at ~134,000 cpm. A biased sample was taken at this location, the character of which was dry loamy soil.
- HS-3 was taken from an area along the northwestern boundary of the site between Pond #1 and Pond #2 (along suspected haul road). Average gamma activity in the area was ~8,800 cpm, and the hotspot was measured at ~180,000 cpm. A biased sample was taken at this location, the character of which was silty sediment.

Some areas were deemed inaccessible at the time of the survey (marked on the survey as inaccessible). Due to the overgrowth of vegetation across much of the site, it is recommended that a full site walkover be conducted, which may require additional equipment such as brush-clearing equipment, etc.

SAMPLE ANALYSIS

Aqueous Samples

On August 22, 2017, Great Lakes obtained composite aqueous samples of each of the two ponds on-site (Pond #1 & Pond #2) by wading into the center of the pond and using new plastic bailers. The water samples were then transferred to laboratory-approved containers.

On the sampling date, only a small amount of water remained in Pond #1 (a depth of only 2-3 inches across ~200 square feet). The samples drawn from this volume were turbid and likely had suspended solids from the sludge-like bed of the pond. Gross alpha counts from the Pond #1 sample (P1-W1) were detected at 317 pCi/L. This exceeds the threshold of 15 pCi/L established in the New York Department of Environmental Conservation's Division of Water Technical and Operational Guidance Series (1.1.1), *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*. The sample also exhibited elevated levels of the isotope Radium-226, the threshold for which is established at 3 pCi/L in the same publication.

Water levels in Pond #2 were also low, but substantially higher than Pond #1 (a depth of approximately 6-8 inches across ~1,500 square feet). The aqueous sample drawn from Pond 2 (P2-W1) did not exhibit elevated radioactivity levels.

The laboratory confirmed that they would have rejected water samples that were too turbid for analysis. Any suspended and/or dissolved solids present in the aqueous samples would have been filtered out when analyzing for Ra-226, per EPA Method 903.1:

“Note: If there is solid matter in the sample, do not filter before starting analysis. Follow procedure steps through 8.4, then filter solution into a clean centrifuge tube.”
(EPA Method 903.1, Section 8.1)

The analysis of aqueous samples for gross alpha and gross beta, however, may have been affected by the presence of solids, as EPA Method 900.0 does not contemplate filtering:

“Since, in this method for gross alpha and gross beta measurement, the radioactivity of the sample is not separated from the solids of the sample, the solids concentration is very much a limiting factor in the sensitivity of the method for any given water sample.”
(EPA Method 900.0, Section 1.4)

The water in both Pond #1 and Pond #2 is inferred to be present only from accumulation of rain water, and likely has no direct affiliation with historical use of the property and therefore not contaminated per se. Any elevated readings are likely due to the suspended solids from pond sediment.

Geolocation of all samples are attached in **Appendix F**.

Full laboratory results are attached as **Appendix G**.

Aqueous Samples

Sample	Parameter	Radioactivity (pCi/L)	Uncertainty ¹	Threshold ²	Exceed?
Pond #1 (P1-W1)	Gross Alpha ³	317	+/- 61.0	15	YES
	Gross Beta ⁴	114	+/- 22.1	1000	
	Radium-226 ⁵	11.3	+/- 2.21	3	YES
	Radium-228 ⁶	0.409	+/- 0.502	5	
Pond #2 (P2-W1)	Gross Alpha	6.39	+/- 2.78	15	
	Gross Beta	2.92	+/- 1.23	1000	
	Radium-226	1.16	+/- 0.556	3	
	Radium-228	0.630	+/- 0.378	5	

¹ For aqueous samples: Safe Drinking Water Act standard of 1.96 sigma count uncertainty.

² For aqueous samples: Division of Water Technical and Operational Guidance Series (1.1.1), *Ambient Water Quality Standards and Guidance Values and Groundwater Effluent Limitations*

³ EPA Method 900.0

⁴ EPA Method 900.0

⁵ EPA Method 903.1

⁶ EPA Method 904.0

Solid Samples

On August 22, 2017, Great Lakes obtained surficial soil samples according to the sampling plan outlined in the Work Plan, as well as from each of the three hotspots identified during the site walkover. A hand trowel and field shovel were used to obtain soil samples from approximately the first six inches below the surface.

The soil cleanup objectives published in 40 CFR 192 Part B establish a threshold of 5 pCi/g average residual (above background) concentration. Background Radium-226 levels estimated at ~2 pCi/g based on United States Geological Survey, therefore a threshold of 7 pCi/g is used as a reporting level in the table below.

Sediment samples were obtained from each of the ponds, one from Pond #1 (P1-S1) and two from Pond #2 (P2-S1 and P2-S2).

Soil samples were obtained from each of the soil drying beds, four from Soil Drying Bed #1 (SD1-1, SD1-2, SD1-3, and SD1-4) and four from Soil Drying Bed #2 (SD2-1, SD2-2, SD2-3, SD2-4).

Soil samples were obtained from each of the three hotspots identified during the gamma walkover (HS-1, HS-2, and HS-3).

Geolocation of all samples are attached in **Appendix F**.

Full laboratory results are attached as **Appendix G**.

Solid Samples

Sample	Parameter	Radioactivity (pCi/g)	Uncertainty ⁷	Threshold ⁸	Exceed?
P1-S1	Gross Alpha ⁹	40.9	+/- 11.7		
	Gross Beta ¹⁰	16.7	+/- 5.13		
	Radium-226 ¹¹	5.244	+/- 0.901	7	
	Radium-228 ¹²	1.124	+/- 0.837	7	
P2-S1	Gross Alpha	272	+/- 53.7		
	Gross Beta	45.6	+/- 10.7		
	Radium-226	21.046	+/- 2.971	7	YES
	Radium-228	2.109	+/- 0.707	7	
P2-S2	Gross Alpha	441	+/- 83.4		
	Gross Beta	33.7	+/- 8.99		
	Radium-226	18.709	+/- 2.585	7	YES
	Radium-228	0.297	+/- 0.407	7	
SD1-1	Gross Alpha	64.4	+/- 16.2		
	Gross Beta	12.1	+/- 5.05		
	Radium-226	7.768	+/- 1.213	7	YES
	Radium-228	0.835	+/- 0.765	7	
SD1-2	Gross Alpha	52.0	+/- 13.5		
	Gross Beta	15.1	+/- 4.50		
	Radium-226	4.728	+/- 0.698	7	
	Radium-228	0.994	+/- 0.310	7	
SD1-3	Gross Alpha	70.0	+/- 16.6		
	Gross Beta	11.0	+/- 4.12		
	Radium-226	8.696	+/- 1.243	7	YES
	Radium-228	0.275	+/- 0.461	7	
SD1-4	Gross Alpha	80.1	+/- 18.9		
	Gross Beta	14.3	+/- 4.76		
	Radium-226	4.618	+/- 0.716	7	
	Radium-228	0.807	+/- 0.359	7	
SD2-1	Gross Alpha	61.8	+/- 15.1		
	Gross Beta	11.8	+/- 4.28		
	Radium-226	3.756	+/- 0.670	7	
	Radium-228	0.693	+/- 0.521	7	
SD2-2	Gross Alpha	165	+/- 34.0		
	Gross Beta	19.3	+/- 6.04		
	Radium-226	14.426	+/- 2.112	7	YES
	Radium-228	0.850	+/- 0.775	7	
SD2-3	Gross Alpha	50.3	+/- 13.3		

⁷ For solid samples: 95% confidence interval. For gamma spec: 95.4% confidence interval

⁸ For solid samples: 40 CFR 192 Subpart B ("5 pCi/g over the first 15cm of soil below the surface")

⁹ EPA Method 9310

¹⁰ EPA Method 9310

¹¹ EPA Method 901.1

¹² EPA Method 901.1

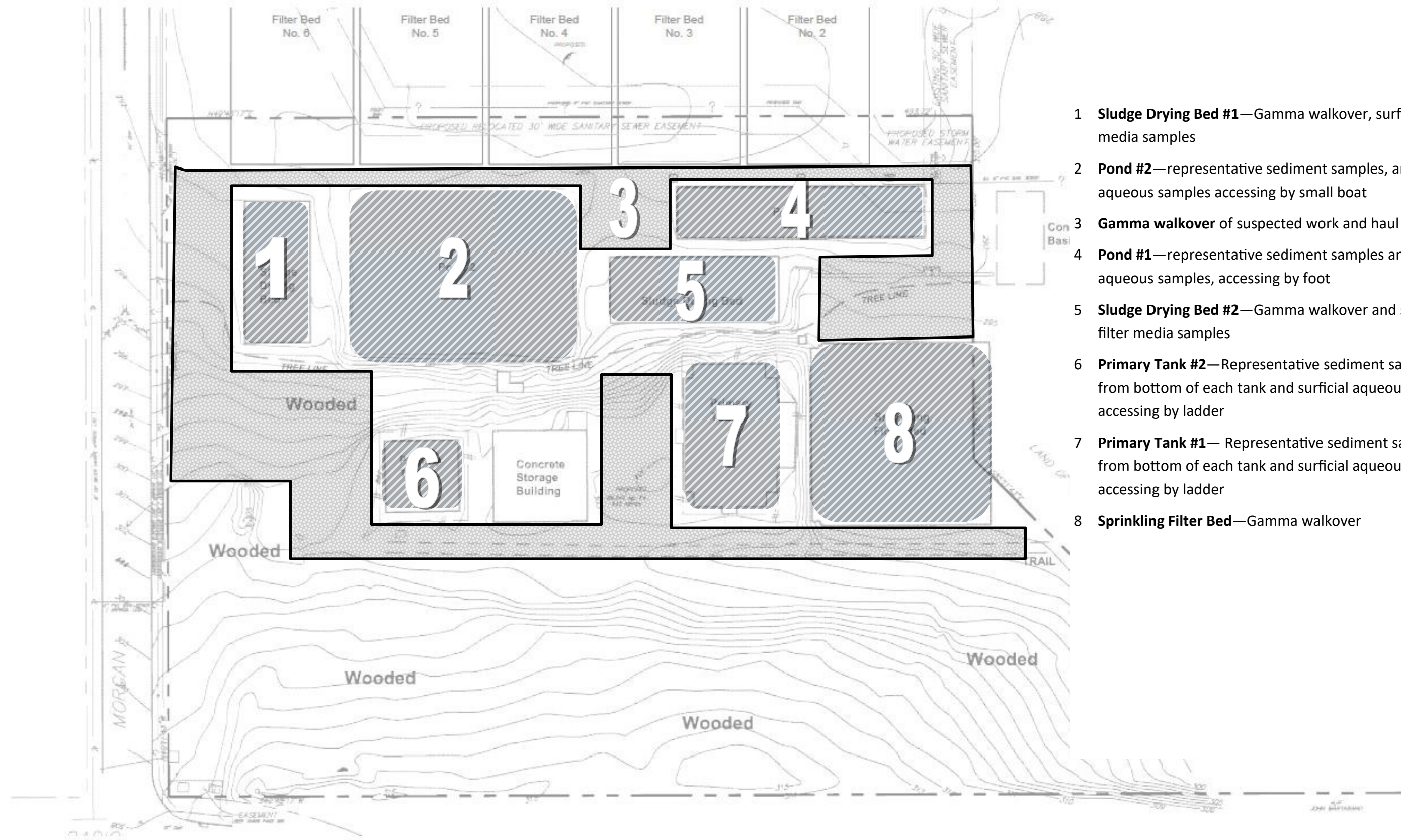
Sample	Parameter	Radioactivity (pCi/g)	Uncertainty ⁷	Threshold ⁸	Exceed?
	Gross Beta	9.62	+/- 3.85		
	Radium-226	6.748	+/- 1.033	7	
	Radium-228	0.619	+/- 0.488	7	
SD2-4	Gross Alpha	94.2	+/- 21.3		
	Gross Beta	14.8	+/- 4.93		
	Radium-226	13.242	+/- 1.817	7	YES
	Radium-228	0.578	+/- 0.484	7	
HS-1	Gross Alpha	1,563	+/- 284		
	Gross Beta	81.2	+/- 17.8		
	Radium-226	65.038	+/- 8.669	7	YES
	Radium-228	2.279	+/- 0.947	7	
HS-2	Gross Alpha	561	+/- 105		
	Gross Beta	61.4	+/- 14.1		
	Radium-226	25.526	+/- 3.584	7	YES
	Radium-228	1.132	+/- 0.825	7	
HS-3	Gross Alpha	1,370	+/- 250		
	Gross Beta	78.5	+/- 17.6		
	Radium-226	53.292	+/- 7.225	7	YES
	Radium-228	1.519	+/- 1.107	7	

CONCLUSIONS

Based on the findings of the radiological survey, radionuclide contaminated waste material appears to be present in some concentration in select areas of the Site. Great Lakes recommends a remedial action plan be developed that includes the following:

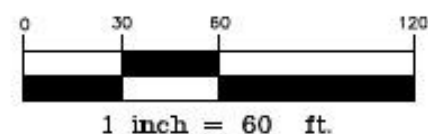
- Selective soil removal in areas identified with elevated radioactivity.
- Radiation surveys of excavation surface, excavated material, and stockpiled material; and
- Transportation of radioactive materials to an off-site appropriately licensed facility for disposal (NYSDEC has regulations that require disturbed radioactive material above background to be disposed of properly outside of NYS borders)

The hotspots identified during the gamma walkover appear to be localized and may potentially be able to be removed on an individual basis, but further investigation is necessary to determine the extent of the contamination associated with these hotspots. Additionally, due to the inaccessibility of much of the Site, there exists the potential for additional, undiscovered hotspots across the Site.



- 1 **Sludge Drying Bed #1**—Gamma walkover, surficial filter media samples
- 2 **Pond #2**—representative sediment samples, and surficial aqueous samples accessing by small boat
- 3 **Gamma walkover** of suspected work and haul areas
- 4 **Pond #1**—representative sediment samples and surficial aqueous samples, accessing by foot
- 5 **Sludge Drying Bed #2**—Gamma walkover and surficial filter media samples
- 6 **Primary Tank #2**—Representative sediment samples from bottom of each tank and surficial aqueous samples, accessing by ladder
- 7 **Primary Tank #1**— Representative sediment samples from bottom of each tank and surficial aqueous samples, accessing by ladder
- 8 **Sprinkling Filter Bed**—Gamma walkover

LEGEND:
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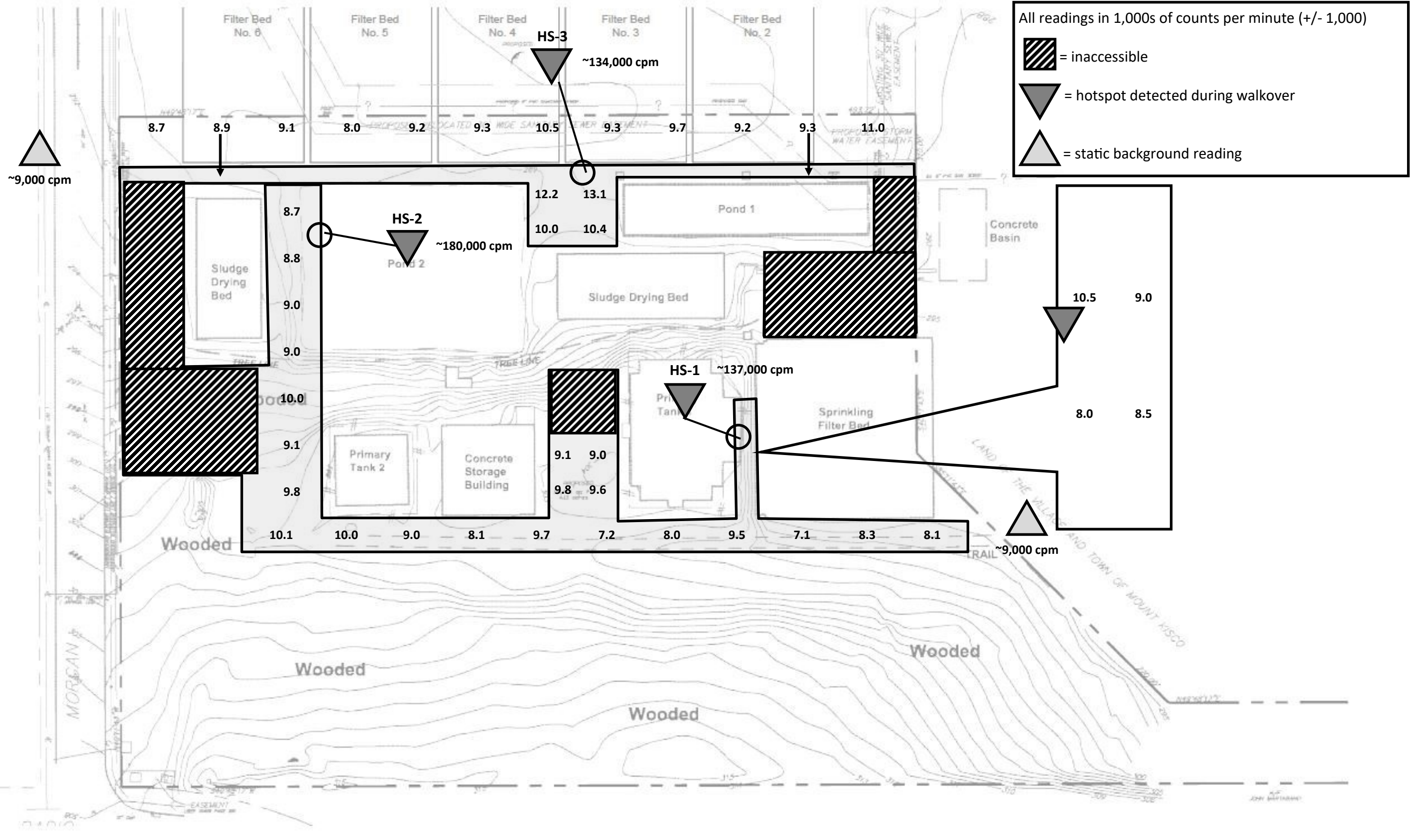
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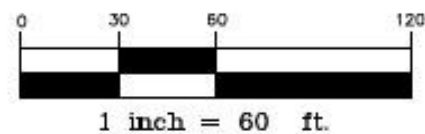
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EXISTING WWTP STRUCTURES
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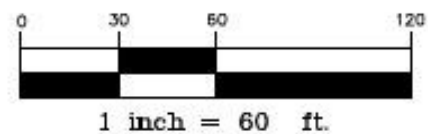
EXISTING WWTP STRUCTURES
RADIO CITY VENTURES, LLC
 MORGAN DRIVE

VILLAGE OF MOUNT KISCO WESTCHESTER CO., N.Y.



12.4	13.2	11.2	11.3
11.3	10.6	12	9.7
10.9	11.6	12.5	10.7
11.5	11.1	13	11
10.9	10.4	10.9	9.1
9.3	10.7	10.4	7.8
9.8	9.6	9.9	8.2
8.3	9.7	9.8	9.7

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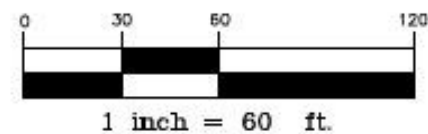
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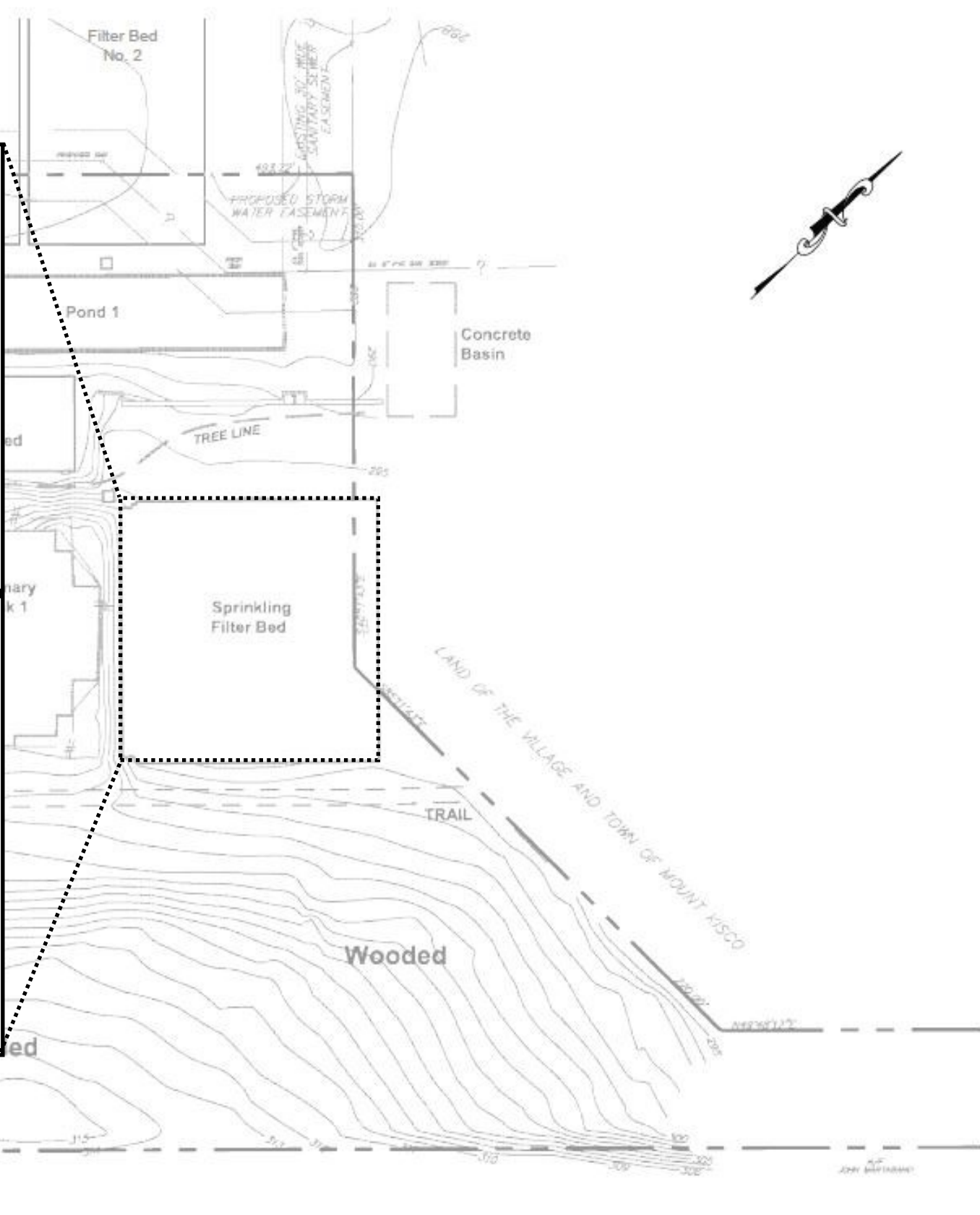
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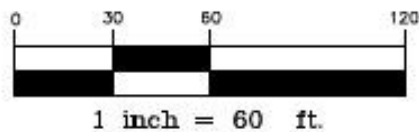
WESTCHESTER CO., N.Y.

14.8	13.4	12.0	12.7	11.7	10.6	12.6	13.4
13.2	11.9	11.5	12.3	11.8	11.8	10.9	10.8
14.7	14.0	11.6	12.5	13.3	12.0	11.7	11.2
13.6	14.0	15.7	13.1	13.8	13.0	11.4	13.2
12.8	12.4	13.4	12.8	10.3	11.9	13.1	13.9
12.8	12.9	11.9	12.6	10.7	12.1	12.4	15.7
12.7	12.3	12.6	13.1	13.6	12.2	13.0	12.4
14.1	12.3	13.4	13.4	11.7	12.7	12.5	15.0
12.0	13.3	12.5	13.5	12.9	12.1	13.0	12.0
11.5	12.0	14.0	13.4	13.7	12.0	13.4	14.3



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EXISTING WWTP STRUCTURES
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VILLAGE OF MOUNT KISCO WESTCHESTER CO., N.Y.

APPENDIX E



SD1-3	8/22/17 0957
70.0	11.0
8.696	0.275

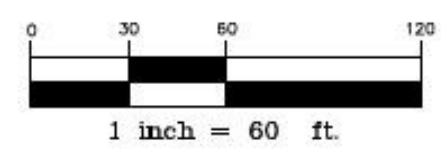
SD1-4	8/22/17 1000
50.3	9362
6.748	0.619

SD1-2	8/22/17 0955
52.0	15.1
4.728	0.994

SD1-1	8/22/17 0953
64.4	12.1
7.768	0.835

LEGEND	
Sample No.	Date / Time
Gross Alpha	Gross Beta
Ra-226	Ra-228

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EXISTING WWTP STRUCTURES
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VILLAGE OF MOUNT KISCO WESTCHESTER CO., N.Y.

SD2-1	8/22/17 1248
61.8	11.8
3.756	0.693

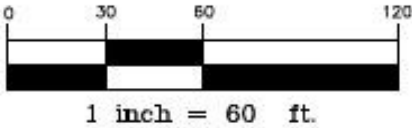
LEGEND	
Sample No.	Date / Time
Gross Alpha	Gross Beta
Ra-226	Ra-228

SD2-2	8/22/17 1249
165	19.3
14.426	0.850

SD2-4	8/22/17 1251
94.2	14.8
13.242	0.578

SD2-3	8/22/17 1250
50.3	9.62
6.748	0.619

LEGEND:
 - - - - - PROPERTY BOUNDARY



DRAWING REFERENCES:
 1. BASE DRAWING FROM DRAWING ENTITLED "SITE PLAN" BY TIM MILLER ASSOCIATES, INC., DATED 8/27/13.



Great Lakes Environmental &
 Safety Consultants, Inc.
 50 Ridge Rd,
 Buffalo, NY 14218

EXISTING WWTP STRUCTURES
RADIO CITY VENTURES, LLC
 MORGAN DRIVE

VILLAGE OF MOUNT KISCO WESTCHESTER CO., N.Y.

LEGEND	
Sample No.	Date / Time
Gross Alpha	Gross Beta
Ra-226	Ra-228

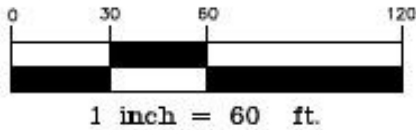
HS-2	8/22/17 1007
561	61.4
25.526	1.132

HS-3	8/22/17 1012
1,370	78.5
53.292	1.519

HS-1	8/22/17 0930
1,563	81.2
65.038	2.279

LEGEND:
 - - - - - PROPERTY BOUNDARY

DRAWING REFERENCES:
 1. BASE DRAWING FROM DRAWING ENTITLED "SITE PLAN" BY TIM MILLER ASSOCIATES, INC., DATED 8/27/13.



Great Lakes Environmental &
 Safety Consultants, Inc.
 50 Ridge Rd,
 Buffalo, NY 14218

EXISTING WWTP STRUCTURES
RADIO CITY VENTURES, LLC
 MORGAN DRIVE

VILLAGE OF MOUNT KISCO WESTCHESTER CO., N.Y.

SAMPLE GEOLOCATION

GIS data was collected for each sample were recorded with a Trimble Geo XT handheld

HS-1 41°11'35.81307"N
73°44'07.72843"W

HS-2 41°11'36.50505"N
73°44'10.42287"W

HS-3 41°11'34.92970"N
73°44'11.45933"W

SD1-1 41°11'34.24054"N
73°44'11.53886"W

SD1-2 41°11'34.14361"N
73°44'11.70997"W

SD1-3 41°11'34.46318"N
73°44'11.95603"W

SD1-4 41°11'34.72539"N
73°44'11.74862"W

SD2-1 41°11'36.94317"N
73°44'09.71508"W

SD2-2 41°11'36.01334"N
73°44'09.57585"W

SD2-3 41°11'36.30238"N
73°44'09.21707"W

SD2-4 41°11'36.41946"N
73°44'09.11656"W

P1-S1 41°11'37.40485"N
73°44'08.75183"W

P2-S1 41°11'35.46901"N
73°44'10.61453"W

P2-S2 41°11'35.04244"N
73°44'11.37837"W

October 23, 2017

Mark Mol
Great Lakes Environmental
50 Ridge Road
Buffalo, NY 14218

RE: Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Dear Mark Mol:

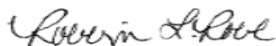
Enclosed are the analytical results for sample(s) received by the laboratory on August 24, 2017. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Revision 1 - This report replaces the Sept. 22, 2017 report. This report has been reissued on Oct. 23, 2017 to include the client location code. Please replace the original report with the revised report enclosed.

Revision 2 - This report replaces the Oct. 23, 2017 report. This report has been reissued on Oct. 23, 2017 to correct the solid matrix from 900.0 to 9310 per the client's request. Please replace the original report with the revised report enclosed.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Robbin Robl
robbin.robl@pacelabs.com
(724)850-5613
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

L-A-B DOD-ELAP Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification

Connecticut Certification #: PH-0694

Delaware Certification

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: 90133

Louisiana DHH/TNI Certification #: LA140008

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: PA00091

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification

Missouri Certification #: 235

Montana Certification #: Cert 0082

Nebraska Certification #: NE-05-29-14

Nevada Certification #: PA014572015-1

New Hampshire/TNI Certification #: 2976

New Jersey/TNI Certification #: PA 051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Oregon/TNI Certification #: PA200002

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: TN2867

Texas/TNI Certification #: T104704188-14-8

Utah/TNI Certification #: PA014572015-5

USDA Soil Permit #: P330-14-00213

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 460198

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Certification

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
30228089001	P1-W1	Water	08/22/17 13:47	08/24/17 09:55
30228089002	P2-W1	Water	08/22/17 13:25	08/24/17 09:55
30228089003	HS-1	Solid	08/22/17 12:00	08/24/17 09:55
30228089004	HS-2	Solid	08/22/17 12:15	08/24/17 09:55
30228089005	HS-3	Solid	08/22/17 12:20	08/24/17 09:55
30228089006	SD1-1-	Solid	08/22/17 12:07	08/24/17 09:55
30228089007	SD1-2	Solid	08/22/17 12:09	08/24/17 09:55
30228089008	SD1-3	Solid	08/22/17 12:11	08/24/17 09:55
30228089009	SD1-4	Solid	08/22/17 12:13	08/24/17 09:55
30228089010	SD2-1	Solid	08/22/17 12:45	08/24/17 09:55
30228089011	SD2-2	Solid	08/22/17 12:47	08/24/17 09:55
30228089012	SD2-3	Solid	08/22/17 12:50	08/24/17 09:55
30228089013	SD2-4	Solid	08/22/17 12:54	08/24/17 09:55
30228089014	P1-S1	Solid	08/22/17 13:59	08/24/17 09:55
30228089015	P2-S1	Solid	08/22/17 13:15	08/24/17 09:55
30228089016	P2-S2	Solid	08/22/17 13:22	08/24/17 09:55

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
30228089001	P1-W1	EPA 900.0	NEG	2	PASI-PA
		EPA 903.1	WRR	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
30228089002	P2-W1	EPA 900.0	NEG	2	PASI-PA
		EPA 903.1	WRR	1	PASI-PA
		EPA 904.0	JLW	1	PASI-PA
30228089003	HS-1	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089004	HS-2	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089005	HS-3	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089006	SD1-1-	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089007	SD1-2	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089008	SD1-3	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089009	SD1-4	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089010	SD2-1	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089011	SD2-2	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089012	SD2-3	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089013	SD2-4	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089014	P1-S1	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089015	P2-S1	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA
30228089016	P2-S2	EPA 901.1	MAH	2	PASI-PA
		EPA 9310	NEG	2	PASI-PA

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Method: EPA 900.0

Description: 900.0 Gross Alpha/Beta

Client: Great Lakes Environmental

Date: October 23, 2017

General Information:

2 samples were analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Method: EPA 901.1

Description: 901.1 Gamma Spec INGROWTH

Client: Great Lakes Environmental

Date: October 23, 2017

General Information:

14 samples were analyzed for EPA 901.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Method: EPA 903.1

Description: 903.1 Radium 226

Client: Great Lakes Environmental

Date: October 23, 2017

General Information:

2 samples were analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Method: EPA 904.0

Description: 904.0 Radium 228

Client: Great Lakes Environmental

Date: October 23, 2017

General Information:

2 samples were analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Method: EPA 9310

Description: 9310 Gross Alpha/Beta

Client: Great Lakes Environmental

Date: October 23, 2017

General Information:

14 samples were analyzed for EPA 9310. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Sample: P1-W1 **Lab ID: 30228089001** Collected: 08/22/17 13:47 Received: 08/24/17 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 3 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	317 ± 61.0 (15.7) C:NA T:NA	pCi/L	09/06/17 18:29	12587-46-1	
Gross Beta	EPA 900.0	114 ± 22.1 (7.60) C:NA T:NA	pCi/L	09/06/17 18:29	12587-47-2	
Radium-226	EPA 903.1	11.3 ± 2.21 (0.756) C:NA T:77%	pCi/L	09/05/17 21:08	13982-63-3	
Radium-228	EPA 904.0	0.409 ± 0.502 (1.06) C:75% T:60%	pCi/L	09/05/17 15:17	15262-20-1	

Sample: P2-W1 **Lab ID: 30228089002** Collected: 08/22/17 13:25 Received: 08/24/17 09:55 Matrix: Water
PWS: Site ID: Sample Type:

Comments: • Upon receipt at the laboratory, 3 mls of nitric acid were added to the samples to meet the sample preservation requirement of pH <2 for radiological analyses.

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	6.39 ± 2.78 (2.97) C:NA T:NA	pCi/L	09/07/17 08:11	12587-46-1	
Gross Beta	EPA 900.0	2.92 ± 1.23 (1.94) C:NA T:NA	pCi/L	09/07/17 08:11	12587-47-2	
Radium-226	EPA 903.1	1.16 ± 0.556 (0.511) C:NA T:93%	pCi/L	09/05/17 21:08	13982-63-3	
Radium-228	EPA 904.0	0.630 ± 0.378 (0.686) C:76% T:78%	pCi/L	09/05/17 15:17	15262-20-1	

Sample: HS-1 **Lab ID: 30228089003** Collected: 08/22/17 12:00 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	65.038 ± 8.669 (0.657) C:NA T:NA	pCi/g	09/21/17 11:43	13982-63-3	Ra
Radium-228	EPA 901.1	2.279 ± 0.947 (0.839) C:NA T:NA	pCi/g	09/21/17 11:43	15262-20-1	
Gross Alpha	EPA 9310	1,563 ± 284 (8.75) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	81.2 ± 17.8 (4.71) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: HS-2 **Lab ID: 30228089004** Collected: 08/22/17 12:15 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	25.526 ± 3.584 (0.582) C:NA T:NA	pCi/g	09/21/17 11:44	13982-63-3	Ra
Radium-228	EPA 901.1	1.132 ± 0.825 (1.295) C:NA T:NA	pCi/g	09/21/17 11:44	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Sample: HS-2 **Lab ID: 30228089004** Collected: 08/22/17 12:15 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 9310	561 ± 105 (8.80) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	61.4 ± 14.1 (6.11) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: HS-3 **Lab ID: 30228089005** Collected: 08/22/17 12:20 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	53.292 ± 7.225 (1.215) C:NA T:NA	pCi/g	09/21/17 12:00	13982-63-3	Ra
Radium-228	EPA 901.1	1.519 ± 1.107 (1.381) C:NA T:NA	pCi/g	09/21/17 12:00	15262-20-1	
Gross Alpha	EPA 9310	1,370 ± 250 (8.88) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	78.5 ± 17.6 (4.98) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: SD1-1- **Lab ID: 30228089006** Collected: 08/22/17 12:07 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	7.768 ± 1.213 (0.331) C:NA T:NA	pCi/g	09/21/17 12:01	13982-63-3	Ra
Radium-228	EPA 901.1	0.835 ± 0.765 (1.095) C:NA T:NA	pCi/g	09/21/17 12:01	15262-20-1	
Gross Alpha	EPA 9310	64.4 ± 16.2 (9.28) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	12.1 ± 5.05 (7.11) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: SD1-2 **Lab ID: 30228089007** Collected: 08/22/17 12:09 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	4.728 ± 0.698 (0.231) C:NA T:NA	pCi/g	09/21/17 12:17	13982-63-3	Ra
Radium-228	EPA 901.1	0.994 ± 0.310 (0.225) C:NA T:NA	pCi/g	09/21/17 12:17	15262-20-1	
Gross Alpha	EPA 9310	52.0 ± 13.5 (8.23) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	15.1 ± 4.50 (4.59) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Sample: SD1-3 **Lab ID: 30228089008** Collected: 08/22/17 12:11 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	8.696 ± 1.243 (0.204) C:NA T:NA	pCi/g	09/21/17 12:18	13982-63-3	Ra
Radium-228	EPA 901.1	0.275 ± 0.461 (0.829) C:NA T:NA	pCi/g	09/21/17 12:18	15262-20-1	
Gross Alpha	EPA 9310	70.0 ± 16.6 (7.73) C:NA T:NA	pCi/g	08/31/17 09:17	12587-46-1	
Gross Beta	EPA 9310	11.0 ± 4.12 (4.81) C:NA T:NA	pCi/g	08/31/17 09:17	12587-47-2	

Sample: SD1-4 **Lab ID: 30228089009** Collected: 08/22/17 12:13 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	4.618 ± 0.716 (0.223) C:NA T:NA	pCi/g	09/21/17 12:33	13982-63-3	Ra
Radium-228	EPA 901.1	0.807 ± 0.359 (0.331) C:NA T:NA	pCi/g	09/21/17 12:33	15262-20-1	
Gross Alpha	EPA 9310	80.1 ± 18.9 (11.0) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	14.3 ± 4.76 (5.20) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: SD2-1 **Lab ID: 30228089010** Collected: 08/22/17 12:45 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	3.756 ± 0.670 (0.393) C:NA T:NA	pCi/g	09/21/17 12:34	13982-63-3	Ra
Radium-228	EPA 901.1	0.693 ± 0.521 (0.696) C:NA T:NA	pCi/g	09/21/17 12:34	15262-20-1	
Gross Alpha	EPA 9310	61.8 ± 15.1 (7.83) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	
Gross Beta	EPA 9310	11.8 ± 4.28 (5.25) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: SD2-2 **Lab ID: 30228089011** Collected: 08/22/17 12:47 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	14.426 ± 2.112 (0.463) C:NA T:NA	pCi/g	09/21/17 12:50	13982-63-3	Ra
Radium-228	EPA 901.1	0.850 ± 0.775 (0.954) C:NA T:NA	pCi/g	09/21/17 12:50	15262-20-1	
Gross Alpha	EPA 9310	165 ± 34.0 (7.01) C:NA T:NA	pCi/g	08/31/17 07:55	12587-46-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

Sample: SD2-2 **Lab ID: 30228089011** Collected: 08/22/17 12:47 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Beta	EPA 9310	19.3 ± 6.04 (5.44) C:NA T:NA	pCi/g	08/31/17 07:55	12587-47-2	

Sample: SD2-3 **Lab ID: 30228089012** Collected: 08/22/17 12:50 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	6.748 ± 1.033 (0.278) C:NA T:NA	pCi/g	09/21/17 12:51	13982-63-3	Ra
Radium-228	EPA 901.1	0.619 ± 0.488 (0.496) C:NA T:NA	pCi/g	09/21/17 12:51	15262-20-1	
Gross Alpha	EPA 9310	50.3 ± 13.3 (8.62) C:NA T:NA	pCi/g	08/31/17 07:56	12587-46-1	
Gross Beta	EPA 9310	9.62 ± 3.85 (5.02) C:NA T:NA	pCi/g	08/31/17 07:56	12587-47-2	

Sample: SD2-4 **Lab ID: 30228089013** Collected: 08/22/17 12:54 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	13.242 ± 1.817 (0.287) C:NA T:NA	pCi/g	09/21/17 13:07	13982-63-3	Ra
Radium-228	EPA 901.1	0.578 ± 0.484 (0.459) C:NA T:NA	pCi/g	09/21/17 13:07	15262-20-1	
Gross Alpha	EPA 9310	94.2 ± 21.3 (8.46) C:NA T:NA	pCi/g	08/31/17 07:56	12587-46-1	
Gross Beta	EPA 9310	14.8 ± 4.93 (5.17) C:NA T:NA	pCi/g	08/31/17 07:56	12587-47-2	

Sample: P1-S1 **Lab ID: 30228089014** Collected: 08/22/17 13:59 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	5.244 ± 0.901 (0.495) C:NA T:NA	pCi/g	09/21/17 13:25	13982-63-3	Ra
Radium-228	EPA 901.1	1.124 ± 0.837 (0.914) C:NA T:NA	pCi/g	09/21/17 13:25	15262-20-1	
Gross Alpha	EPA 9310	40.9 ± 11.7 (9.33) C:NA T:NA	pCi/g	08/31/17 07:56	12587-46-1	
Gross Beta	EPA 9310	16.7 ± 5.13 (5.83) C:NA T:NA	pCi/g	08/31/17 07:56	12587-47-2	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

Sample: P2-S1 **Lab ID: 30228089015** Collected: 08/22/17 13:15 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	21.046 ± 2.971 (0.649) C:NA T:NA	pCi/g	09/21/17 13:24	13982-63-3	Ra
Radium-228	EPA 901.1	2.109 ± 0.707 (0.557) C:NA T:NA	pCi/g	09/21/17 13:24	15262-20-1	
Gross Alpha	EPA 9310	272 ± 53.7 (11.1) C:NA T:NA	pCi/g	08/31/17 07:56	12587-46-1	
Gross Beta	EPA 9310	45.6 ± 10.7 (5.82) C:NA T:NA	pCi/g	08/31/17 07:56	12587-47-2	

Sample: P2-S2 **Lab ID: 30228089016** Collected: 08/22/17 13:22 Received: 08/24/17 09:55 Matrix: Solid
PWS: Site ID: Sample Type:

Results reported on a "dry-weight" basis

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 901.1	18.709 ± 2.585 (0.402) C:NA T:NA	pCi/g	09/21/17 13:08	13982-63-3	Ra
Radium-228	EPA 901.1	0.297 ± 0.407 (1.043) C:NA T:NA	pCi/g	09/21/17 13:08	15262-20-1	
Gross Alpha	EPA 9310	441 ± 83.4 (8.11) C:NA T:NA	pCi/g	08/31/17 07:56	12587-46-1	
Gross Beta	EPA 9310	33.7 ± 8.99 (5.40) C:NA T:NA	pCi/g	08/31/17 07:56	12587-47-2	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

QC Batch:	276475	Analysis Method:	EPA 9310
QC Batch Method:	EPA 9310	Analysis Description:	9310 Gross Alpha/Beta
Associated Lab Samples:	30228089003, 30228089004, 30228089005, 30228089006, 30228089007, 30228089008, 30228089009, 30228089010, 30228089011, 30228089012, 30228089013, 30228089014, 30228089015, 30228089016		

METHOD BLANK:	1359004	Matrix:	Solid
Associated Lab Samples:	30228089003, 30228089004, 30228089005, 30228089006, 30228089007, 30228089008, 30228089009, 30228089010, 30228089011, 30228089012, 30228089013, 30228089014, 30228089015, 30228089016		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.011 ± 0.0996 (0.242) C:NA T:NA	pCi/g	08/31/17 07:54	
Gross Beta	0.094 ± 0.111 (0.234) C:NA T:NA	pCi/g	08/31/17 07:54	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

QC Batch:	270066	Analysis Method:	EPA 900.0
QC Batch Method:	EPA 900.0	Analysis Description:	900.0 Gross Alpha/Beta
Associated Lab Samples:	30228089001, 30228089002		

METHOD BLANK:	1328869	Matrix:	Water
Associated Lab Samples:	30228089001, 30228089002		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Gross Alpha	0.075 ± 0.450 (1.11) C:NA T:NA	pCi/L	09/06/17 08:59	
Gross Beta	0.110 ± 0.589 (1.44) C:NA T:NA	pCi/L	09/06/17 08:59	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

QC Batch:	269708	Analysis Method:	EPA 904.0
QC Batch Method:	EPA 904.0	Analysis Description:	904.0 Radium 228
Associated Lab Samples:	30228089001, 30228089002		

METHOD BLANK:	1327579	Matrix:	Water
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Associated Lab Samples: 30228089001, 30228089002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.555 ± 0.339 (0.607) C:80% T:73%	pCi/L	09/05/17 15:16	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

QC Batch:	270262	Analysis Method:	EPA 901.1
QC Batch Method:	EPA 901.1	Analysis Description:	901.1 Gamma Spec Ingrowth
Associated Lab Samples:	30228089003, 30228089004, 30228089005, 30228089006, 30228089007, 30228089008, 30228089009, 30228089010, 30228089011, 30228089012, 30228089013, 30228089014, 30228089015, 30228089016		

METHOD BLANK:	1329879	Matrix:	Solid
Associated Lab Samples:	30228089003, 30228089004, 30228089005, 30228089006, 30228089007, 30228089008, 30228089009, 30228089010, 30228089011, 30228089012, 30228089013, 30228089014, 30228089015, 30228089016		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.000 ± 0.080 (0.237) C:NA T:NA	pCi/g	09/21/17 10:19	Ra
Radium-228	0.058 ± 0.102 (0.172) C:NA T:NA	pCi/g	09/21/17 10:19	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Mt. Kisco Radiological

Pace Project No.: 30228089

QC Batch:	269696	Analysis Method:	EPA 903.1
QC Batch Method:	EPA 903.1	Analysis Description:	903.1 Radium-226
Associated Lab Samples:	30228089001, 30228089002		

METHOD BLANK:	1327558	Matrix:	Water
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Associated Lab Samples: 30228089001, 30228089002

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.122 ± 0.279 (0.165) C:NA T:89%	pCi/L	09/05/17 20:34	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Mt. Kisco Radiological
Pace Project No.: 30228089

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval).

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

Ra The reported Ra-226 results were determined by hermetically sealing the dried, processed sample in an appropriate-sized can. Each sample was stored for a minimum of 21 days to ensure that equilibrium between Ra-226 and daughters Bi-214 and Pb-214 was achieved. Reported Ra-226 results were inferred from gamma peaks attributable to Bi-214 and Pb-214.

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	Great Lakes Environmental	Report To:	Mark Mol mmol@greatlakesenvironmental.com	Attention:	Mark Mol
Address:	50 Ridge Road Buffalo, NY 14218	Copy To:		Company Name:	Great Lakes Environmental
Email To:	mmol@greatlakesenvironmental.com	Purchase Order No.:		Address:	50 Ridge Road, Buffalo, NY 14218
Phone:	7169499451	Project Name:	Mt. Kisco Radiological	Pace Quote Reference:	
Requested Due Date/TAT:		Project Number:		Pace Project Manager:	
				Pace Profile #:	

Page: 1 of 2

REGULATORY AGENCY		
NPDES	GROUND WATER	DRINKING WATER
UST	RCRA	OTHER
Site Location		STATE: NY

ITEM #	Section D Required Client Information		Valid Matrix Codes		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED			SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test Y/N	Requested Analysis Filtered (Y/N)												Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	MATRIX	CODE	DRINKING WATER	DW			COMPOSITE START	DATE	TIME			COMPOSITE ENDIGRAB	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol		Other	Y/N																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
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	Mark Mol	8/23/17			8/24/17	07:55	N/A
--	----------	---------	--	--	---------	-------	-----

WO#: 30228089			
SAMPLER NAME AND SIGNATURE			
PRINT Name of SAMPLER: Mark Mol	DATE Signed (MM/DD/YY):		
SIGNATURE of SAMPLER:			
Temp in °C	Received on	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)


CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: Great Lakes Environmental		Report To: Mark Mol mmol@greatlakesenvironmental.com		Attention: Mark Mol	
Address: 50 Ridge Road Buffalo, NY 14218		Copy To:		Company Name: Great Lakes Environmental	
Email To: mmol@greatlakesenvironmental.com		Purchase Order No.:		Address: 50 Ridge Road, Buffalo, NY 14218	
Phone: 7169499451 Fax:		Project Name: Mt. Kisco Radiological		Pace Quote Reference: Pace Project Manager: Pace Profile #:	
Requested Due Date/TAT:		Project Number:		Regulatory Agency: NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>	
				Site Location: NY STATE: NY	

Page: **2** of **2**

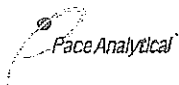
ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WASTE WATER WW WATER PRODUCT P SOL/SOLID SL OIL OL WIPE WIP AIR AR OTHER OT TISSUE TS	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test ↑ Analysis Test ↑	Gross Alpha & Beta Rad	Radium 226/228	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB					DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl					
1	SD22-4				8/22	12:54		1										013	
2	P1-S1				8/22	13:59		1										014	
3	P2-S1				8/22	13:15		1										015	
4	P2-S2				8/22	13:22		1										016	
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS				RELINQUISHED BY / AFFILIATION				ACCEPTED BY / AFFILIATION				SAMPLE CONDITIONS			
				Mark Mol				 8/24/17 0955 MA				Received on _____ Custody Sealed Cooler (Y/N) _____ Samples Intact (Y/N) _____			

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Mark Mol	DATE Signed (MM/DD/YYYY):
SIGNATURE of SAMPLER:	

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Great Lakes Env. Project # 30228089

Courier: ☒ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other _____

Tracking #: 810674790123

Label	<u>Z.H.</u>
LIMS Login	<u>AMV</u>

Custody Seal on Cooler/Box Present: ☒ yes ☐ no Seals intact: ☒ yes ☐ no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 8°C

Date and initials of person examining contents: ZH 8/24/17

Comments:	Yes	No	N/A	
Chain of Custody Present:	/			1.
Chain of Custody Filled Out:	/			2.
Chain of Custody Relinquished:	/			3.
Sampler Name & Signature on COC:		/		4.
Sample Labels match COC:		/		5. <u>no date / time on soil samples</u>
-Includes date/time/ID				
Matrix: <u>WT + SL</u>				
Samples Arrived within Hold Time:	/			6.
Short Hold Time Analysis (<72hr remaining):		/		7.
Rush Turn Around Time Requested:		/		8.
Sufficient Volume:	/			9.
Correct Containers Used:	/			10. <u>not used for soils</u>
-Pace Containers Used:	/			
Containers Intact:	/			11.
Orthophosphate field filtered			/	12.
Hex Cr Aqueous Compliance/NPDES sample field filtered			/	13.
Organic Samples checked for dechlorination:			/	14.
Filtered volume received for Dissolved tests			/	15.
All containers have been checked for preservation.	/			16. <u>Added 3 ml of H₂O₂ to water samples</u>
All containers needing preservation are found to be in compliance with EPA recommendation.		/		
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Initial when completed <u>ZH</u> Date/time of preservation <u>8/24/17 16:00</u>
				Lot # of added preservative <u>DL171058</u>
Headspace in VOA Vials (>6mm):			/	17.
Trip Blank Present:			/	18.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when completed: <u>ZH</u> Date: <u>8/24/17</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

☐ A check in this box indicates that additional information has been stored in ereports.

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)
 *PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.