

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Loscy
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.3B.R10.1
 Sample ID: 386515013
 Matrix: Soil
 Collect Date: 19-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 27.8%

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		27.8						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.127	+/-0.384	0.701	0.332	+/-0.389		pCi/g		RXF2	12/24/15	0731	1528027	2
Antimony-125	U	-0.00916	+/-0.132	0.244	0.113	+/-0.132		pCi/g						
Bismuth-212		1.25	+/-1.11	1.37	0.627	+/-1.11		pCi/g						
Bismuth-214		0.975	+/-0.224	0.191	0.0883	+/-0.238		pCi/g						
Cesium-137		0.962	+/-0.151	0.0887	0.0402	+/-0.170	0.100	pCi/g						
Cobalt-60	U	-0.00818	+/-0.0572	0.0906	0.039	+/-0.0574		pCi/g						
Europium-154	U	-0.0605	+/-0.167	0.297	0.131	+/-0.169		pCi/g						
Lead-212		1.42	+/-0.168	0.146	0.0693	+/-0.205		pCi/g						
Lead-214		1.12	+/-0.245	0.199	0.0932	+/-0.261		pCi/g						
Potassium-40		19.4	+/-1.93	0.793	0.333	+/-2.54		pCi/g						
Protactinium-231	U	0.00	+/-0.812	1.34	0.633	+/-0.827		pCi/g						
Radium-226		0.975	+/-0.224	0.191	0.0883	+/-0.238		pCi/g						
Radium-228		1.16	+/-0.333	0.337	0.151	+/-0.368		pCi/g						
Thallium-208		0.316	+/-0.103	0.0895	0.041	+/-0.106		pCi/g						
Tin-126	U	0.00	+/-0.142	0.183	0.0877	+/-0.144		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		16.3	+/-4.28	3.81	1.55	+/-5.31	4.00	pCi/g		KXB2	12/17/15	0737	1531241	3
Beta		25.6	+/-3.32	2.64	1.19	+/-4.93	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5 2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Company : MFW Corporation
Address : 15 Hazelwood Drive
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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R10.1
Sample ID: 386515013

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.10.2
 Sample ID: 392031009
 Matrix: Soil
 Collect Date: 19-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 25%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	-0.164	+/-0.304	0.539	0.252	+/-0.314		pCi/g		MXR1	03/07/16	0700	1547790	1
Antimony-125	U	0.0523	+/-0.127	0.238	0.111	+/-0.129		pCi/g						
Bismuth-212	UI	0.00	+/-1.04	1.61	0.751	+/-1.13		pCi/g						
Bismuth-214		0.993	+/-0.180	0.149	0.0677	+/-0.198		pCi/g						
Cesium-137		1.55	+/-0.167	0.0965	0.0444	+/-0.209	0.100	pCi/g						
Cobalt-60	U	0.0149	+/-0.0418	0.087	0.0376	+/-0.0424		pCi/g						
Europium-154	U	0.0186	+/-0.136	0.262	0.115	+/-0.136		pCi/g						
Lead-212		1.03	+/-0.138	0.128	0.0602	+/-0.159		pCi/g						
Lead-214		1.04	+/-0.229	0.356	0.173	+/-0.243		pCi/g						
Potassium-40		15.2	+/-1.79	0.724	0.305	+/-2.26		pCi/g						
Protactinium-231	UI	0.00	+/-0.887	1.12	0.527	+/-0.897		pCi/g						
Radium-226		0.993	+/-0.180	0.149	0.0677	+/-0.198		pCi/g						
Radium-228		1.16	+/-0.304	0.298	0.133	+/-0.342		pCi/g						
Thallium-208		0.372	+/-0.0777	0.0903	0.0417	+/-0.0835		pCi/g						
Tin-126	UI	0.00	+/-0.165	0.158	0.0749	+/-0.166		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A:B, solid "Dry Weight Corrected"

Alpha		10.3	+/-3.37	3.95	1.70	+/-3.92	4.00	pCi/g		JXB7	03/03/16	1124	1547849	2
Beta		23.6	+/-2.80	2.51	1.16	+/-4.34	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300.4 5.2.3/Ga-01-R
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.10.2
Sample ID: 392031009

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R11.1
 Sample ID: 386515014
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 28.9%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		28.9						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.062	+/-0.332	0.602	0.283	+/-0.334		pCi/g		RXF2	12/24/15	0732	1528027	2
Antimony-125	U	-0.0975	+/-0.139	0.233	0.108	+/-0.146		pCi/g						
Bismuth-212	UI	0.00	+/-0.675	1.40	0.649	+/-0.780		pCi/g						
Bismuth-214		0.908	+/-0.188	0.179	0.0826	+/-0.203		pCi/g						
Cesium-137		3.38	+/-0.208	0.104	0.0481	+/-0.342	0.100	pCi/g						
Cobalt-60	U	-0.0204	+/-0.0435	0.0778	0.033	+/-0.0445		pCi/g						
Europium-154	U	0.037	+/-0.149	0.261	0.114	+/-0.150		pCi/g						
Lead-212		1.01	+/-0.148	0.136	0.0645	+/-0.167		pCi/g						
Lead-214		1.06	+/-0.241	0.183	0.0857	+/-0.255		pCi/g						
Potassium-40		15.7	+/-1.74	0.775	0.328	+/-2.25		pCi/g						
Protactinium-231	UI	0.00	+/-1.22	1.15	0.538	+/-1.25		pCi/g						
Radium-226		0.908	+/-0.188	0.179	0.0826	+/-0.203		pCi/g						
Radium-228		1.01	+/-0.371	0.330	0.148	+/-0.396		pCi/g						
Thallium-208		0.289	+/-0.0848	0.0887	0.0408	+/-0.0882		pCi/g						
Tin-126	UI	0.00	+/-0.127	0.171	0.0814	+/-0.128		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		15.2	+/-4.16	3.85	1.57	+/-5.13	4.00	pCi/g		KXB2	12/17/15	0737	1531241	3
Beta		29.9	+/-3.87	3.95	1.84	+/-5.84	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846.9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R11.1
Sample ID: 386515014

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Report Date: February 13, 2016

Client Sample ID: 4.3B.R11.1
 Sample ID: 390935001
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 29.6%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	0.120	+/-0.299	0.493	0.233	+/-0.304		pCi/g		MXR1	02/12/16	0751	1543886	1
Antimony-125	UI	0.00	+/-0.114	0.207	0.0976	+/-0.134		pCi/g						
Bismuth-212	UI	0.00	+/-0.632	1.10	0.514	+/-0.856		pCi/g						
Bismuth-214		0.744	+/-0.159	0.141	0.0661	+/-0.171		pCi/g						
Cesium-137		2.41	+/-0.148	0.0667	0.0308	+/-0.245	0.100	pCi/g						
Cobalt-60	U	-0.000736	+/-0.0438	0.0701	0.0313	+/-0.0438		pCi/g						
Europium-154	UI	0.00	+/-0.100	0.233	0.106	+/-0.116		pCi/g						
Lead-212		0.992	+/-0.117	0.113	0.0538	+/-0.142		pCi/g						
Lead-214		0.746	+/-0.191	0.152	0.0719	+/-0.200		pCi/g						
Potassium-40		15.2	+/-1.34	0.463	0.194	+/-1.88		pCi/g						
Protactinium-231	UI	0.00	+/-0.683	0.871	0.410	+/-0.708		pCi/g						
Radium-226		0.744	+/-0.159	0.141	0.0661	+/-0.171		pCi/g						
Radium-228		0.829	+/-0.316	0.237	0.108	+/-0.343		pCi/g						
Thallium-208		0.304	+/-0.0824	0.0651	0.0302	+/-0.0862		pCi/g						
Tin-126	UI	0.00	+/-0.121	0.156	0.0748	+/-0.124		pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	KYW2	02/10/16	1449	1543636

The following Analytical Methods were performed

Method	Description
I	DOE HASL 300, 4 5.2 3/Ga-01-R

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Report Date: February 13, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R11.1
Sample ID: 390935001

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.11.2
 Sample ID: 392031010
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 22.2%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mid.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	-0.0379	+/-0.321	0.603	0.284	+/-0.322		pCi/g		MXR1	03/07/16	0701	1547790	1
Antimony-125	U	-0.0182	+/-0.129	0.235	0.108	+/-0.129		pCi/g						
Bismuth-212	UI	0.00	+/-0.778	1.40	0.646	+/-0.995		pCi/g						
Bismuth-214		0.853	+/-0.176	0.134	0.0599	+/-0.192		pCi/g						
Cesium-137		0.973	+/-0.134	0.0863	0.0392	+/-0.160	0.100	pCi/g						
Cobalt-60	U	0.00478	+/-0.0447	0.0898	0.0385	+/-0.0448		pCi/g						
Europium-154	U	0.0645	+/-0.134	0.281	0.123	+/-0.138		pCi/g						
Lead-212		1.15	+/-0.155	0.129	0.0606	+/-0.184		pCi/g						
Lead-214		1.14	+/-0.183	0.169	0.0784	+/-0.209		pCi/g						
Potassium-40		14.7	+/-1.79	0.664	0.270	+/-2.19		pCi/g						
Protactinium-231	U	0.137	+/-0.602	1.12	0.523	+/-0.606		pCi/g						
Radium-226		0.853	+/-0.176	0.134	0.0599	+/-0.192		pCi/g						
Radium-228		1.11	+/-0.342	0.293	0.129	+/-0.381		pCi/g						
Thallium-208		0.271	+/-0.107	0.0847	0.0388	+/-0.110		pCi/g						
Tin-126	U	0.0656	+/-0.167	0.197	0.0944	+/-0.168		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A.B. solid "Dry Weight Corrected"

Alpha		7.06	+/-2.70	3.32	1.42	+/-3.04	4.00	pCi/g		JXB7	03/03/16	1136	1547849	2
Beta		23.8	+/-3.05	3.40	1.61	+/-4.59	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5.2.3/Ga-01-R
2	EPA 900.0/SW846.9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.11.2
Sample ID: 392031010

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Company : MJW Corporation
 Address : 15 Hazelwood Drive
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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R12.1
 Sample ID: 386515015
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 27%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lo	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Gravimetric Solids

ASTM D 2216 % Moisture "As Received"

Moisture		27.0						percent		LYT1	12/02/15	1224	1527662	1
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Solid "Dry Weight Corrected"

Actinium-227	U	-0.0439	+/-0.254	0.483	0.227	+/-0.255		pCi/g		RXF2	12/24/15	0732	1528027	2
Antimony-125	U	-0.0239	+/-0.0903	0.167	0.0766	+/-0.091		pCi/g						
Bismuth-212	UI	0.00	+/-0.755	1.19	0.553	+/-0.877		pCi/g						
Bismuth-214		0.632	+/-0.158	0.148	0.0683	+/-0.167		pCi/g						
Cesium-137		0.998	+/-0.126	0.0724	0.0331	+/-0.152	0.100	pCi/g						
Cobalt-60	U	0.0118	+/-0.0376	0.0761	0.0332	+/-0.038		pCi/g						
Europium-154	U	-0.0482	+/-0.0946	0.168	0.0705	+/-0.0972		pCi/g						
Lead-212		1.12	+/-0.123	0.101	0.0474	+/-0.163		pCi/g						
Lead-214		0.776	+/-0.200	0.146	0.0683	+/-0.211		pCi/g						
Potassium-40		14.1	+/-1.40	0.483	0.193	+/-1.86		pCi/g						
Protactinium-231	U	-0.0615	+/-0.486	0.919	0.431	+/-0.487		pCi/g						
Radium-226		0.632	+/-0.158	0.148	0.0683	+/-0.167		pCi/g						
Radium-228		0.811	+/-0.333	0.232	0.103	+/-0.355		pCi/g						
Thallium-208		0.297	+/-0.0684	0.0623	0.0283	+/-0.0731		pCi/g						
Tin-126	UI	0.00	+/-0.125	0.138	0.0659	+/-0.127		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		15.8	+/-3.94	3.60	1.49	+/-5.05	4.00	pCi/g		KXB2	12/17/15	0743	1531241	3
Beta		23.3	+/-3.41	3.98	1.88	+/-4.80	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5 2.3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
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Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.3B.R12.1
Sample ID: 386515015

Report Date: December 28, 2015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Project: MJWC00115
 Client ID: MJWC001

Client Sample ID: 4.3.B.R.12.2
 Sample ID: 392031011
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 21.8%

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	UI	0.00	+/-0.259	0.511	0.243	+/-0.304		pCi/g		MXR1	03/07/16	0701	1547790	1
Antimony-125	U	0.0316	+/-0.108	0.179	0.0838	+/-0.109		pCi/g						
Bismuth-212	U	0.508	+/-0.564	1.09	0.512	+/-0.611		pCi/g						
Bismuth-214		0.725	+/-0.160	0.126	0.0587	+/-0.172		pCi/g						
Cesium-137		0.368	+/-0.0915	0.0723	0.0338	+/-0.0969	0.100	pCi/g						
Cobalt-60	U	0.0177	+/-0.034	0.0698	0.0312	+/-0.0349		pCi/g						
Europium-154	U	0.00368	+/-0.126	0.231	0.105	+/-0.126		pCi/g						
Lead-212		1.10	+/-0.121	0.102	0.0487	+/-0.148		pCi/g						
Lead-214		1.11	+/-0.169	0.290	0.141	+/-0.190		pCi/g						
Potassium-40		16.4	+/-1.30	0.399	0.164	+/-1.91		pCi/g						
Protactinium-231	UI	0.00	+/-0.450	0.837	0.395	+/-0.461		pCi/g						
Radium-226		0.725	+/-0.160	0.126	0.0587	+/-0.172		pCi/g						
Radium-228		1.25	+/-0.271	0.238	0.109	+/-0.301		pCi/g						
Thallium-208		0.265	+/-0.0585	0.059	0.0273	+/-0.0628		pCi/g						
Tin-126	UI	0.00	+/-0.131	0.157	0.0754	+/-0.132		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		11.4	+/-3.28	3.55	1.52	+/-3.96	4.00	pCi/g		JXB7	03/03/16	1136	1547849	2
Beta		24.5	+/-3.06	3.52	1.67	+/-4.60	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4 § 2.3/Ga-01-R
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.12.2
Sample ID: 392031011

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R12.5
 Sample ID: 386515022
 Matrix: Water
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gammasec, Gamma, Liquid (Standard List) "As Received"

Actinium-227	U	-33	+/-33.1	53.5	24.9	+/-36.6		pCi/L		MJH1	12/18/15	0648	1529228	1
Antimony-125	U	3.26	+/-11.5	21.8	10.1	+/-11.6		pCi/L						
Bismuth-212	UI	0.00	+/-118	101	44.9	+/-121		pCi/L						
Bismuth-214	U	0.432	+/-13.3	20.9	9.72	+/-13.3		pCi/L						
Cesium-137	U	-0.761	+/-4.44	8.04	3.62	+/-4.45	10.0	pCi/L						
Cobalt-60	U	4.26	+/-4.34	9.83	4.30	+/-4.76		pCi/L						
Europium-154	U	-5.22	+/-14.9	23.8	10.2	+/-15.1		pCi/L						
Lead-212	U	2.74	+/-11.0	15.7	7.43	+/-11.1		pCi/L						
Lead-214	U	-3.12	+/-11.5	19.1	8.95	+/-11.6		pCi/L						
Potassium-40	UI	0.00	+/-65.5	69.0	28.3	+/-65.6		pCi/L						
Protactinium-231	U	-57.3	+/-66.9	103	47.8	+/-72.9		pCi/L						
Radium-228	U	14.4	+/-24.1	37.7	17.1	+/-25.1		pCi/L						
Thallium-208	U	-0.177	+/-6.10	9.66	4.46	+/-6.10		pCi/L						
Tin-126	U	-7.37	+/-10.7	14.4	6.84	+/-11.2		pCi/L						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, liquid "As Received"

Alpha	U	-0.521	+/-1.80	4.08	1.63	+/-1.80	5.00	pCi/L		JXB7	12/21/15	1330	1531188	2
Beta	U	1.59	+/-2.55	4.40	1.95	+/-2.56	5.00	pCi/L						

The following Analytical Methods were performed

Method	Description
1	EPA 901.1
2	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R13.1
 Sample ID: 386515016
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 26.5%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		26.5						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.0152	+/-0.267	0.508	0.239	+/-0.267		pCi/g		RXF2	12/24/15	0733	1528027	2
Antimony-125	U	-0.0111	+/-0.106	0.195	0.0906	+/-0.106		pCi/g						
Bismuth-212	UI	0.00	+/-0.931	1.24	0.577	+/-0.981		pCi/g						
Bismuth-214		0.696	+/-0.161	0.150	0.0693	+/-0.171		pCi/g						
Cesium-137		1.67	+/-0.150	0.0725	0.033	+/-0.200	0.100	pCi/g						
Cobalt-60	U	-0.0179	+/-0.0341	0.0591	0.0246	+/-0.035		pCi/g						
Europium-154	U	-0.0701	+/-0.137	0.195	0.084	+/-0.140		pCi/g						
Lead-212		1.04	+/-0.121	0.106	0.0498	+/-0.149		pCi/g						
Lead-214		0.963	+/-0.197	0.314	0.152	+/-0.211		pCi/g						
Potassium-40		13.4	+/-1.39	0.585	0.243	+/-1.85		pCi/g						
Protactinium-231	UI	0.00	+/-0.751	0.940	0.441	+/-0.792		pCi/g						
Radium-226		0.696	+/-0.161	0.150	0.0693	+/-0.171		pCi/g						
Radium-228		0.638	+/-0.211	0.251	0.112	+/-0.229		pCi/g						
Thallium-208		0.310	+/-0.0758	0.0723	0.0332	+/-0.080		pCi/g						
Tin-126	U	0.0517	+/-0.154	0.152	0.0729	+/-0.155		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		13.0	+/-3.59	3.79	1.62	+/-4.43	4.00	pCi/g		KXB2	12/17/15	0743	1531241	3
Beta		23.8	+/-3.37	3.87	1.83	+/-4.79	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GI.-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4 5 2.3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R13.1
Sample ID: 386515016

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3.B.R.13.2
 Sample ID: 392031012
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 22.8%

Report Date: March 8, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	0.339	+/-0.291	0.504	0.234	+/-0.333		pCi/g		MXR1	03/07/16	0702	1547790	1
Antimony-125	U	0.0456	+/-0.123	0.234	0.108	+/-0.125		pCi/g						
Bismuth-212	UI	0.00	+/-0.711	1.53	0.711	+/-0.921		pCi/g						
Bismuth-214		0.871	+/-0.163	0.142	0.064	+/-0.181		pCi/g						
Cesium-137		1.04	+/-0.122	0.0852	0.0386	+/-0.154	0.100	pCi/g						
Cobalt-60	UI	0.00	+/-0.0602	0.106	0.0464	+/-0.0647		pCi/g						
Europium-154	U	-0.0446	+/-0.175	0.328	0.146	+/-0.177		pCi/g						
Lead-212		1.06	+/-0.136	0.112	0.0525	+/-0.166		pCi/g						
Lead-214		0.944	+/-0.197	0.159	0.0738	+/-0.214		pCi/g						
Potassium-40		14.6	+/-1.67	0.858	0.364	+/-2.08		pCi/g						
Protactinium-231	UI	0.00	+/-0.599	1.23	0.582	+/-0.742		pCi/g						
Radium-226		0.871	+/-0.163	0.142	0.064	+/-0.181		pCi/g						
Radium-228		0.964	+/-0.333	0.300	0.133	+/-0.366		pCi/g						
Thallium-208		0.320	+/-0.0772	0.0793	0.0361	+/-0.0824		pCi/g						
Tin-126	UI	0.00	+/-0.130	0.172	0.0817	+/-0.132		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		12.2	+/-3.39	3.32	1.38	+/-4.12	4.00	pCi/g		JXB7	03/03/16	1136	1547849	2
Beta		21.5	+/-3.10	3.73	1.77	+/-4.37	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5.2 3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
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Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.13.2
Sample ID: 392031012

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R13.5
 Sample ID: 386515024
 Matrix: Water
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gammascpec, Gamma, Liquid (Standard List) "As Received"

Actinium-227	U	25.0	+/-31.5	59.8	28.2	+/-33.6		pCi/L		MJH1	12/18/15	0711	1529228	1
Antimony-125	U	4.81	+/-11.3	20.9	9.64	+/-11.5		pCi/L						
Bismuth-212	U	42.7	+/-95.4	116	52.5	+/-97.4		pCi/L						
Bismuth-214	U	-5.71	+/-12.1	18.5	8.61	+/-12.4		pCi/L						
Cesium-137	U	1.29	+/-3.96	7.64	3.45	+/-4.00	10.0	pCi/L						
Cobalt-60	U	-3.45	+/-4.35	7.43	3.12	+/-4.63		pCi/L						
Europium-154	U	4.18	+/-12.8	23.7	10.2	+/-12.9		pCi/L						
Lead-212	U	-7.39	+/-8.51	14.6	6.93	+/-9.16		pCi/L						
Lead-214	UI	0.00	+/-15.7	18.5	8.71	+/-16.6		pCi/L						
Potassium-40	U	-58.3	+/-65.9	109	48.5	+/-71.1		pCi/L						
Protactinium-231	U	-32.7	+/-55.7	95.4	44.4	+/-58.1		pCi/L						
Radium-228	U	13.1	+/-16.2	33.7	15.2	+/-17.3		pCi/L						
Thallium-208	UI	0.00	+/-5.58	8.36	3.83	+/-5.60		pCi/L						
Tin-126	U	-1.53	+/-9.74	15.5	7.26	+/-9.77		pCi/L						

Rad Gas Flow Proportional Counting

GFPC, Gross A B, liquid "As Received"

Alpha	U	1.22	+/-1.89	3.32	1.37	+/-1.90	5.00	pCi/L		JXB7	12/21/15	1329	1531188	2
Beta		5.42	+/-3.15	4.91	2.28	+/-3.29	5.00	pCi/L						

The following Analytical Methods were performed

Method	Description
1	EPA 901.1
2	EPA 900.0/SW846 9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R14.1
 Sample ID: 386515017
 Matrix: Soil
 Collect Date: 23-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 23.6%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		23.6						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>GammaSpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.146	+/-0.297	0.581	0.272	+/-0.305		pCi/g		RXF2	12/24/15	0733	1528027	2
Antimony-125	U	0.0646	+/-0.123	0.234	0.109	+/-0.126		pCi/g						
Bismuth-212	UI	0.00	+/-0.690	1.45	0.669	+/-0.907		pCi/g						
Bismuth-214		0.719	+/-0.195	0.148	0.0669	+/-0.205		pCi/g						
Cesium-137		1.17	+/-0.138	0.0857	0.0388	+/-0.174	0.100	pCi/g						
Cobalt-60	U	-0.0103	+/-0.0425	0.0823	0.0345	+/-0.0428		pCi/g						
Europium-154	U	0.0128	+/-0.176	0.342	0.153	+/-0.176		pCi/g						
Lead-212		1.28	+/-0.145	0.122	0.0571	+/-0.186		pCi/g						
Lead-214		0.885	+/-0.194	0.161	0.0742	+/-0.209		pCi/g						
Potassium-40		15.5	+/-1.72	0.772	0.320	+/-2.18		pCi/g						
Protactinium-231	U	0.226	+/-0.739	1.24	0.583	+/-0.748		pCi/g						
Radium-226		0.719	+/-0.195	0.148	0.0669	+/-0.205		pCi/g						
Radium-228		1.23	+/-0.287	0.333	0.149	+/-0.348		pCi/g						
Thallium-208		0.301	+/-0.0849	0.0771	0.0349	+/-0.0891		pCi/g						
Tin-126	UI	0.00	+/-0.155	0.194	0.0926	+/-0.157		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		20.0	+/-4.88	3.90	1.56	+/-6.24	4.00	pCi/g		KXB2	12/17/15	0749	1531241	3
Beta		27.4	+/-3.49	2.97	1.35	+/-5.22	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2 3/Ga-01-R
3	EPA 900 0/SW846 9310:SM 7110B Modified

Surrogate/Tracer Recovery	Fest	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R14.1
Sample ID: 386515017

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

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Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.14.2
 Sample ID: 392031013
 Matrix: Soil
 Collect Date: 23-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 20.6%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	0.0896	+/-0.256	0.477	0.224	+/-0.259		pCi/g		MXR1	03/07/16	0743	1547790	1
Antimony-125	U	0.156	+/-0.104	0.164	0.0748	+/-0.127		pCi/g						
Bismuth-212	UI	0.00	+/-0.926	1.37	0.637	+/-1.21		pCi/g						
Bismuth-214		0.904	+/-0.157	0.134	0.0611	+/-0.174		pCi/g						
Cesium-137		0.247	+/-0.0807	0.070	0.0317	+/-0.0831	0.100	pCi/g						
Cobalt-60	U	0.00722	+/-0.0361	0.0744	0.032	+/-0.0363		pCi/g						
Europium-154	U	0.0234	+/-0.105	0.216	0.0937	+/-0.106		pCi/g						
Lead-212		1.07	+/-0.121	0.107	0.0505	+/-0.151		pCi/g						
Lead-214		0.900	+/-0.160	0.155	0.0725	+/-0.177		pCi/g						
Potassium-40		14.3	+/-1.47	0.658	0.278	+/-1.92		pCi/g						
Protactinium-231	UI	0.00	+/-0.664	0.761	0.351	+/-0.694		pCi/g						
Radium-226		0.904	+/-0.157	0.134	0.0611	+/-0.174		pCi/g						
Radium-228	UI	0.00	+/-0.328	0.546	0.259	+/-0.562		pCi/g						
Thallium-208		0.223	+/-0.0957	0.0749	0.0344	+/-0.0974		pCi/g						
Tin-126	UI	0.00	+/-0.110	0.134	0.064	+/-0.112		pCi/g						

Rad Gas Flow Proportional Counting

GFPC. Gross A/B. solid "Dry Weight Corrected"

Alpha		12.7	+/-3.23	3.68	1.63	+/-4.11	4.00	pCi/g		JXB7	03/03/16	1137	1547849	2
Beta		21.1	+/-2.29	2.49	1.19	+/-3.69	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXCI	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4 5.2.3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.14.2
Sample ID: 392031013

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.14.5
 Sample ID: 386429003
 Matrix: Water
 Collect Date: 23-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RI	Units	DF	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gammasec. Gamma, Liquid (Standard List) "As Received"

Actinium-227	U	-17.4	+/-25.9	45.4	21.5	+/-27.2		pCi/L		MJH1	12/18/15	0709	1529228	1
Antimony-125	U	-0.498	+/-8.62	15.5	7.22	+/-8.62		pCi/L						
Bismuth-212	U	-10.2	+/-57.5	86.5	39.7	+/-57.7		pCi/L						
Bismuth-214	U	1.18	+/-17.6	12.0	5.56	+/-17.6		pCi/L						
Cesium-137	U	0.920	+/-3.61	6.60	3.04	+/-3.63	10.0	pCi/L						
Cobalt-60	U	1.74	+/-4.82	8.32	3.77	+/-4.88		pCi/L						
Europium-154	U	-2.33	+/-9.46	17.2	7.53	+/-9.52		pCi/L						
Lead-212	U	-3.63	+/-7.67	12.2	5.84	+/-7.85		pCi/L						
Lead-214	U	-5.51	+/-9.40	14.6	6.91	+/-9.73		pCi/L						
Potassium-40	U	7.13	+/-49.0	68.7	30.5	+/-49.0		pCi/L						
Protactinium-231	U	-10.5	+/-47.4	84.8	40.1	+/-47.7		pCi/L						
Radium-228	U	-1.8	+/-16.4	28.3	13.1	+/-16.4		pCi/L						
Thallium-208	UI	0.00	+/-9.88	5.70	2.61	+/-9.91		pCi/L						
Tin-126	UI	0.00	+/-8.58	13.7	6.57	+/-8.61		pCi/L						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, liquid "As Received"

Alpha	U	-0.985	+/-1.58	3.61	1.51	+/-1.58	5.00	pCi/L		KXB2	12/08/15	1216	1526940	2
Beta	U	-2.83	+/-2.35	4.68	2.17	+/-2.35	5.00	pCi/L						

The following Analytical Methods were performed

Method	Description
1	EPA 901.1
2	EPA 900.0/SW846.9310

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R15.1
 Sample ID: 386515018
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 26.9%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		26.9						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma. Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.119	+/-0.348	0.593	0.279	+/-0.352		pCi/g		RXF2	12/24/15	0759	1528027	2
Antimony-125	U	0.0236	+/-0.117	0.221	0.102	+/-0.117		pCi/g						
Bismuth-212	UI	0.00	+/-0.930	1.36	0.619	+/-1.02		pCi/g						
Bismuth-214		0.909	+/-0.202	0.149	0.067	+/-0.216		pCi/g						
Cesium-137		1.45	+/-0.155	0.0818	0.0366	+/-0.195	0.100	pCi/g						
Cobalt-60	U	0.0113	+/-0.0479	0.0917	0.0393	+/-0.0482		pCi/g						
Europium-154	UI	0.0518	+/-0.129	0.275	0.120	+/-0.132		pCi/g						
Lead-212		1.01	+/-0.133	0.127	0.0599	+/-0.155		pCi/g						
Lead-214		1.07	+/-0.210	0.356	0.172	+/-0.225		pCi/g						
Potassium-40		13.4	+/-1.66	0.897	0.383	+/-2.14		pCi/g						
Protactinium-231	UI	0.00	+/-0.661	1.29	0.607	+/-0.821		pCi/g						
Radium-226		0.909	+/-0.202	0.149	0.067	+/-0.216		pCi/g						
Radium-228		0.912	+/-0.401	0.313	0.138	+/-0.416		pCi/g						
Thallium-208		0.337	+/-0.0872	0.0778	0.035	+/-0.0916		pCi/g						
Tin-126	UI	0.00	+/-0.159	0.177	0.0842	+/-0.160		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		18.0	+/-4.01	3.82	1.65	+/-5.33	4.00	pCi/g		KXB2	12/17/15	0808	1531241	3
Beta		26.1	+/-2.88	3.01	1.43	+/-4.64	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846.9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R15.1
Sample ID: 386515018

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
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 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3.B.R.15.2
 Sample ID: 392031014
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 19.1%

Report Date: March 8, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	0.103	+/-0.286	0.568	0.266	+/-0.290		pCi/g		MXR1	03/07/16	0744	1547790	1
Antimony-125	UI	0.00	+/-0.117	0.246	0.114	+/-0.136		pCi/g						
Bismuth-212		0.943	+/-0.707	0.774	0.334	+/-0.714		pCi/g						
Bismuth-214		0.770	+/-0.155	0.127	0.0569	+/-0.169		pCi/g						
Cesium-137		0.665	+/-0.113	0.0697	0.031	+/-0.128	0.100	pCi/g						
Cobalt-60	U	-0.00686	+/-0.039	0.0768	0.0322	+/-0.0391		pCi/g						
Europium-154	U	-0.0509	+/-0.152	0.283	0.125	+/-0.154		pCi/g						
Lead-212		0.967	+/-0.133	0.121	0.0566	+/-0.158		pCi/g						
Lead-214		1.05	+/-0.188	0.342	0.165	+/-0.210		pCi/g						
Potassium-40		12.4	+/-1.50	0.937	0.408	+/-1.83		pCi/g						
Protactinium-231	UI	0.00	+/-0.852	1.00	0.466	+/-0.867		pCi/g						
Radium-226		0.770	+/-0.155	0.127	0.0569	+/-0.169		pCi/g						
Radium-228		1.10	+/-0.313	0.256	0.111	+/-0.349		pCi/g						
Thallium-208		0.237	+/-0.0677	0.0689	0.0309	+/-0.0709		pCi/g						
Tin-126	UI	0.00	+/-0.166	0.184	0.0878	+/-0.167		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha	11.6	+/-3.23	3.93	1.76	+/-3.93	4.00	pCi/g	JXB7	03/03/16	1137	1547849	2
Beta	19.1	+/-2.47	2.92	1.39	+/-3.61	10.0	pCi/g					

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4 5 2.3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery Test

Batch ID Recovery% Acceptable Limits

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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
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Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.15.2
Sample ID: 392031014

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer	Recovery	Test											Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R16.1
 Sample ID: 386515019
 Matrix: Soil
 Collect Date: 19-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 27.6%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		27.6						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.121	+/-0.285	0.498	0.234	+/-0.291		pCi/g		RXF2	12/24/15	0800	1528027	2
Antimony-125	U	-0.0455	+/-0.108	0.191	0.088	+/-0.110		pCi/g						
Bismuth-212	UI	0.00	+/-0.750	1.42	0.661	+/-0.973		pCi/g						
Bismuth-214		0.889	+/-0.197	0.132	0.0599	+/-0.210		pCi/g						
Cesium-137		0.903	+/-0.121	0.0871	0.040	+/-0.141	0.100	pCi/g						
Cobalt-60	U	0.0203	+/-0.0412	0.0866	0.0378	+/-0.0422		pCi/g						
Europium-154	U	-0.0696	+/-0.112	0.197	0.0835	+/-0.117		pCi/g						
Lead-212		1.24	+/-0.127	0.108	0.0508	+/-0.210		pCi/g						
Lead-214		1.16	+/-0.178	0.349	0.169	+/-0.210		pCi/g						
Potassium-40		16.4	+/-1.68	0.690	0.290	+/-2.23		pCi/g						
Protactinium-231	UI	0.00	+/-0.615	1.13	0.534	+/-0.729		pCi/g						
Radium-226		0.889	+/-0.197	0.132	0.0599	+/-0.210		pCi/g						
Radium-228		1.13	+/-0.267	0.247	0.108	+/-0.319		pCi/g						
Thallium-208		0.431	+/-0.0756	0.0745	0.0341	+/-0.084		pCi/g						
Tin-126	UI	0.00	+/-0.0798	0.0825	0.039	+/-0.0834		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		17.9	+/-4.07	3.76	1.60	+/-5.36	4.00	pCi/g		KXB2	12/17/15	0808	1531241	3
Beta		25.1	+/-2.96	3.39	1.62	+/-4.57	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R16.1
Sample ID: 386515019

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.16.2
 Sample ID: 392031015
 Matrix: Soil
 Collect Date: 19-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 21.7%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DI	Analyst	Date	Time	Batch	Mtd.
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Rad Gamma Spec Analysis

Gamma with Ingrowth "Dry Weight Corrected"

Actinium-227	U	0.0999	+/-0.303	0.582	0.274	+/-0.306		pCi/g		MXRI	03/07/16	0744	1547790	1
Antimony-125	U	0.0155	+/-0.116	0.216	0.0997	+/-0.116		pCi/g						
Bismuth-212	UI	0.00	+/-0.698	1.33	0.616	+/-0.879		pCi/g						
Bismuth-214		0.765	+/-0.151	0.155	0.0712	+/-0.164		pCi/g						
Cesium-137		1.76	+/-0.155	0.0733	0.033	+/-0.213	0.100	pCi/g						
Cobalt-60	U	-0.00745	+/-0.0344	0.0666	0.0274	+/-0.0346		pCi/g						
Europium-154	U	0.0103	+/-0.127	0.249	0.109	+/-0.127		pCi/g						
Lead-212		0.887	+/-0.150	0.152	0.0725	+/-0.167		pCi/g						
Lead-214		0.826	+/-0.178	0.188	0.0885	+/-0.191		pCi/g						
Potassium-40		13.8	+/-1.48	0.719	0.302	+/-1.92		pCi/g						
Protactinium-231	UI	0.00	+/-0.810	0.956	0.445	+/-0.853		pCi/g						
Radium-226		0.765	+/-0.151	0.155	0.0712	+/-0.164		pCi/g						
Radium-228		1.06	+/-0.290	0.208	0.0882	+/-0.331		pCi/g						
Thallium-208		0.430	+/-0.0878	0.0735	0.0334	+/-0.0951		pCi/g						
Tin-126	UI	0.00	+/-0.149	0.176	0.0844	+/-0.150		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		14.6	+/-3.28	2.97	1.26	+/-4.35	4.00	pCi/g		JXB7	03/03/16	1137	1547849	2
Beta		22.7	+/-2.75	3.21	1.53	+/-4.19	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/25/16	1518	1547782

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4 5 2 3/Ga-01-R
2	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 8, 2016

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.16.2
Sample ID: 392031015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R17.1
 Sample ID: 386515020
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 29.3%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		29.3						percent		LYT1	12/02/15	1224	1527662	1
Rad Gamma Spec Analysis														
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.0804	+/-0.325	0.621	0.291	+/-0.327		pCi/g		RXF2	12/24/15	0800	1528027	2
Antimony-125	U	-0.109	+/-0.136	0.242	0.110	+/-0.145		pCi/g						
Bismuth-212	UI	0.00	+/-0.987	1.55	0.699	+/-1.09		pCi/g						
Bismuth-214		0.915	+/-0.228	0.214	0.0977	+/-0.241		pCi/g						
Cesium-137		1.99	+/-0.191	0.105	0.0467	+/-0.250	0.100	pCi/g						
Cobalt-60	U	0.0276	+/-0.0625	0.133	0.0573	+/-0.0638		pCi/g						
Europium-154	U	-0.0722	+/-0.237	0.415	0.183	+/-0.239		pCi/g						
Lead-212		0.891	+/-0.157	0.133	0.0628	+/-0.186		pCi/g						
Lead-214		1.29	+/-0.222	0.409	0.197	+/-0.249		pCi/g						
Potassium-40		15.4	+/-2.06	1.17	0.490	+/-2.48		pCi/g						
Protactinium-231	UI	0.00	+/-0.913	1.19	0.557	+/-0.923		pCi/g						
Radium-226		0.915	+/-0.228	0.214	0.0977	+/-0.241		pCi/g						
Radium-228		0.931	+/-0.332	0.456	0.203	+/-0.352		pCi/g						
Thallium-208		0.327	+/-0.0917	0.112	0.0511	+/-0.0958		pCi/g						
Tin-126	UI	0.00	+/-0.0938	0.103	0.0487	+/-0.0965		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		22.8	+/-4.42	3.76	1.61	+/-6.30	4.00	pCi/g		KXB2	12/17/15	0808	1531241	3
Beta		25.3	+/-2.92	3.17	1.50	+/-4.59	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	LYT1	12/02/15	1224	1527662

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228
Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.3B.R17.1
Sample ID: 386515020

Report Date: December 28, 2015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R17.2
 Sample ID: 386515021
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 23.8%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		23.8						percent		LYT1	12/02/15	1223	1527664	1
Rad Gamma Spec Analysis														
<i>Gammascpec. Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.208	+/-0.429	0.669	0.316	+/-0.440		pCi/g		RXF2	12/24/15	0604	1528387	2
Antimony-125	UI	0.00	+/-0.156	0.307	0.144	+/-0.171		pCi/g						
Bismuth-212		1.15	+/-1.03	0.969	0.425	+/-1.04		pCi/g						
Bismuth-214		0.694	+/-0.236	0.176	0.0803	+/-0.244		pCi/g						
Cesium-137		3.61	+/-0.232	0.103	0.0472	+/-0.376	0.100	pCi/g						
Cobalt-60	U	-0.0167	+/-0.0587	0.107	0.0465	+/-0.0592		pCi/g						
Europium-154	U	-0.00652	+/-0.188	0.304	0.134	+/-0.188		pCi/g						
Lead-212		1.09	+/-0.148	0.144	0.068	+/-0.173		pCi/g						
Lead-214		0.962	+/-0.242	0.170	0.0788	+/-0.256		pCi/g						
Potassium-40		15.7	+/-1.93	0.813	0.338	+/-2.36		pCi/g						
Protactinium-231	U	0.0299	+/-0.816	1.36	0.641	+/-0.816		pCi/g						
Radium-226		0.694	+/-0.236	0.176	0.0803	+/-0.244		pCi/g						
Radium-228		1.22	+/-0.300	0.283	0.123	+/-0.342		pCi/g						
Thallium-208		0.354	+/-0.0765	0.0932	0.0427	+/-0.0826		pCi/g						
Tm-126	UI	0.00	+/-0.161	0.191	0.0915	+/-0.163		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC. Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		18.3	+/-4.62	3.88	1.56	+/-5.84	4.00	pCi/g		JXB7	12/17/15	1527	1531243	3
Beta		29.1	+/-3.43	2.86	1.31	+/-5.35	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GI.-RAD-A-021	LYT1	12/02/15	1223	1527664

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R17.2
Sample ID: 386515021

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.18.1
 Sample ID: 386429004
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 25.2%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.2						percent		CXC1	12/01/15	1152	1527019	1
Rad Gamma Spec Analysis														
<i>Gammasp. Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.258	+/-0.380	0.707	0.333	+/-0.399		pCi/g		RXF2	12/24/15	0624	1528025	2
Antimony-125	U	-0.00896	+/-0.137	0.245	0.113	+/-0.137		pCi/g						
Bismuth-212	UI	0.00	+/-0.807	1.69	0.781	+/-1.09		pCi/g						
Bismuth-214		0.776	+/-0.271	0.199	0.0913	+/-0.278		pCi/g						
Cesium-137		0.375	+/-0.123	0.112	0.0513	+/-0.127	0.100	pCi/g						
Cobalt-60	U	-5.25E-05	+/-0.0521	0.101	0.043	+/-0.0521		pCi/g						
Europium-154	U	-0.00412	+/-0.193	0.324	0.142	+/-0.193		pCi/g						
Lead-212		1.31	+/-0.154	0.143	0.0671	+/-0.188		pCi/g						
Lead-214		0.962	+/-0.208	0.180	0.0831	+/-0.222		pCi/g						
Potassium-40		15.7	+/-1.78	0.936	0.394	+/-2.22		pCi/g						
Protactinium-231	UI	0.00	+/-0.853	1.47	0.691	+/-0.980		pCi/g						
Radium-226		0.776	+/-0.271	0.199	0.0913	+/-0.278		pCi/g						
Radium-228		0.635	+/-0.389	0.338	0.149	+/-0.399		pCi/g						
Thallium-208		0.301	+/-0.0987	0.0977	0.0446	+/-0.102		pCi/g						
Tm-126	U	0.0617	+/-0.151	0.184	0.0875	+/-0.152		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A.B. solid "Dry Weight Corrected"</i>														
Alpha		14.8	+/-3.52	3.96	1.77	+/-4.52	4.00	pCi/g		JXB7	12/17/15	0846	1531239	3
Beta		20.5	+/-2.25	2.26	1.07	+/-3.88	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2 3/Ga-01-R
3	EPA 900 0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228
Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.3B.R.18.1
Sample ID: 386429004

Report Date: December 28, 2015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Technical Services
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3.B.R.18.2
 Sample ID: 392057014
 Matrix: Soil
 Collect Date: 18-NOV-15
 Receive Date: 25-FEB-16
 Collector: Client
 Moisture: 20.1%

Report Date: March 9, 2016

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gamma with Ingrowth "Dry Weight Corrected"</i>														
Actinium-227	U	-0.117	+/-0.263	0.492	0.230	+/-0.269		pCi/g		MXR1	03/07/16	1206	1547922	1
Antimony-125	U	-0.0651	+/-0.114	0.212	0.0966	+/-0.117		pCi/g						
Bismuth-212	U	0.452	+/-0.635	1.29	0.582	+/-0.668		pCi/g						
Bismuth-214		0.806	+/-0.212	0.144	0.0644	+/-0.223		pCi/g						
Cesium-137		0.967	+/-0.141	0.0996	0.0452	+/-0.161	0.100	pCi/g						
Cobalt-60	U	-0.0158	+/-0.0581	0.112	0.0483	+/-0.0585		pCi/g						
Europium-154	U	-0.00356	+/-0.156	0.308	0.133	+/-0.156		pCi/g						
Lead-212		0.926	+/-0.118	0.105	0.049	+/-0.156		pCi/g						
Lead-214		0.753	+/-0.207	0.164	0.0759	+/-0.217		pCi/g						
Potassium-40		13.5	+/-1.83	0.656	0.251	+/-2.20		pCi/g						
Protactinium-231	U	0.368	+/-0.533	1.04	0.488	+/-0.565		pCi/g						
Radium-226		0.806	+/-0.212	0.144	0.0644	+/-0.223		pCi/g						
Radium-228		0.831	+/-0.316	0.312	0.136	+/-0.333		pCi/g						
Thallium-208		0.305	+/-0.0768	0.0705	0.0312	+/-0.081		pCi/g						
Tin-126	UI	0.00	+/-0.0881	0.0873	0.0415	+/-0.0906		pCi/g						

Rad Gas Flow Proportional Counting

GFPC, Gross A/B, solid "Dry Weight Corrected"

Alpha		21.4	+/-4.91	4.00	1.63	+/-6.38	4.00	pCi/g		BXF1	03/05/16	1618	1549866	2
Beta		24.5	+/-3.55	3.79	1.77	+/-4.96	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	02/26/16	1436	1547873

The following Analytical Methods were performed

Method	Description
1	DOE HASL 300, 4.5.2.3/(Ga-01)-R
2	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

GEL LABORATORIES LLC

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Certificate of Analysis

Company : MJW Technical Services
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: March 9, 2016

Contact: Ms. Laurie Loscy
Project: Soil Radioisotopes

Client Sample ID: 4.3.B.R.18.2
Sample ID: 392057014

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lo	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4,3B.R.19.1
 Sample ID: 386429005
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 28.5%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		28.5						percent		CXCI	12/01/15	1152	1527019	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.109	+/-0.319	0.598	0.279	+/-0.323		pCi/g		RXF2	12/24/15	0625	1528025	2
Antimony-125	U	0.0778	+/-0.127	0.242	0.112	+/-0.132		pCi/g						
Bismuth-212	UI	0.00	+/-1.00	1.75	0.813	+/-1.26		pCi/g						
Bismuth-214		1.03	+/-0.201	0.176	0.0804	+/-0.218		pCi/g						
Cesium-137		0.203	+/-0.0817	0.106	0.0485	+/-0.0834	0.100	pCi/g						
Cobalt-60	U	0.0276	+/-0.0511	0.107	0.0467	+/-0.0526		pCi/g						
Europium-154	U	-0.00295	+/-0.188	0.306	0.135	+/-0.188		pCi/g						
Lead-212		1.28	+/-0.144	0.126	0.059	+/-0.175		pCi/g						
Lead-214		1.17	+/-0.211	0.181	0.084	+/-0.230		pCi/g						
Potassium-40		17.0	+/-1.76	0.661	0.264	+/-2.35		pCi/g						
Protactinium-231	UI	0.00	+/-0.716	0.923	0.422	+/-0.728		pCi/g						
Radium-226		1.03	+/-0.201	0.176	0.0804	+/-0.218		pCi/g						
Radium-228		1.13	+/-0.412	0.341	0.152	+/-0.440		pCi/g						
Thallium-208		0.265	+/-0.081	0.0751	0.0336	+/-0.0839		pCi/g						
Tin-126	UI	0.00	+/-0.164	0.179	0.085	+/-0.166		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		19.0	+/-5.06	3.88	1.48	+/-6.28	4.00	pCi/g		JXB7	12/17/15	0846	1531239	3
Beta		24.2	+/-3.60	2.74	1.20	+/-5.10	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXCI	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4 5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits

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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.19.1
Sample ID: 386429005

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.1
 Sample ID: 386429006
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 25%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.0						percent		CXC1	12/01/15	1152	1527019	1
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.0143	+/-0.317	0.595	0.280	+/-0.317		pCi/g		RXF2	12/24/15	0625	1528025	2
Antimony-125	U	-0.0447	+/-0.111	0.199	0.0914	+/-0.113		pCi/g						
Bismuth-212	UI	0.00	+/-0.885	1.21	0.554	+/-0.969		pCi/g						
Bismuth-214		0.809	+/-0.185	0.153	0.0699	+/-0.198		pCi/g						
Cesium-137		1.23	+/-0.128	0.0845	0.0385	+/-0.166	0.100	pCi/g						
Cobalt-60	U	0.0362	+/-0.0406	0.0904	0.0395	+/-0.0439		pCi/g						
Europium-154	U	-0.0384	+/-0.142	0.241	0.105	+/-0.143		pCi/g						
Lead-212		0.877	+/-0.125	0.129	0.0608	+/-0.151		pCi/g						
Lead-214		0.891	+/-0.201	0.165	0.0769	+/-0.216		pCi/g						
Potassium-40		14.6	+/-1.53	0.733	0.309	+/-1.98		pCi/g						
Protactinium-231	UI	0.00	+/-0.588	1.15	0.539	+/-0.663		pCi/g						
Radium-226		0.809	+/-0.185	0.153	0.0699	+/-0.198		pCi/g						
Radium-228		0.910	+/-0.283	0.224	0.096	+/-0.316		pCi/g						
Thallium-208		0.259	+/-0.0797	0.0725	0.0329	+/-0.0827		pCi/g						
Tin-126	U	-0.0276	+/-0.133	0.167	0.0801	+/-0.134		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A, B, solid "Dry Weight Corrected"</i>														
Alpha		7.76	+/-3.34	3.92	1.58	+/-3.66	4.00	pCi/g		JXB7	12/17/15	0846	1531239	3
Beta		13.1	+/-2.38	2.24	1.01	+/-3.14	10.0	pCi/g						

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE HASL 300, 4.5.2.3/Ga-01-R
3	EPA 900.0/SW846 9310/SM 7110B Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
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Certificate of Analysis

Company : MJW Corporation
Address : 15 Hazelwood Drive
Suite 112
Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.1
Sample ID: 386429006

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.	
Surrogate/Tracer Recovery	Test												Batch ID	Recovery%	Acceptable Limits

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.2
 Sample ID: 386429007
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 20.3%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		20.3						percent		CXC1	12/01/15	1152	1527019	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238		0.00	+/-0.0318	0.0473	0.00	+/-0.0319	1.00	pCi/g		JXR1	12/21/15	0933	1527520	2
Plutonium-239/240	U	0.00819	+/-0.0455	0.0873	0.020	+/-0.0456	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	-0.00604	+/-0.0564	0.131	0.0429	+/-0.0565	1.00	pci/g		JXR1	12/21/15	0932	1527510	3
Uranium-233/234		0.742	+/-0.214	0.0939	0.0239	+/-0.247	1.00	pci/g						
Uranium-235/236		0.101	+/-0.0864	0.0854	0.0196	+/-0.088	1.00	pci/g						
Uranium-238		0.703	+/-0.207	0.0737	0.0138	+/-0.238	1.00	pci/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	0.021	+/-0.219	0.458	0.117	+/-0.220	1.00	pCi/g		JXR1	12/18/15	0923	1527516	4
<i>Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		0.823	+/-0.502	0.532	0.174	+/-0.521	1.00	pCi/g		JXR1	12/19/15	1025	1527505	5
Thorium-229	U	0.0335	+/-0.216	0.442	0.132	+/-0.217	1.00	pCi/g						
Thorium-230		0.943	+/-0.501	0.419	0.120	+/-0.522	1.00	pCi/g						
Thorium-232		1.19	+/-0.535	0.179	0.00	+/-0.567	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241	U	0.0215	+/-0.0657	0.122	0.0373	+/-0.0657	1.00	pCi/g		JXR1	12/22/15	1039	1527513	6
Curium-242	U	-0.00424	+/-0.0371	0.0859	0.016	+/-0.0372	1.00	pCi/g						
Curium-243/244	U	0.0137	+/-0.0949	0.189	0.0711	+/-0.0949	1.00	pCi/g						
Curium-245/246		0.0503	+/-0.0723	0.0868	0.0161	+/-0.0726	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241		6.82	+/-6.73	11.3	5.44	+/-6.88	15.0	pCi/g		JXR1	12/24/15	0857	1527521	7
Rad Gamma Spec Analysis														
<i>Gamma I129, Solid "Dry Weight Corrected"</i>														
Iodine-129	UI	0.00	+/-0.170	0.336	0.151	+/-0.173	1.00	pCi/g		MJH1	12/21/15	1815	1528513	8
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.0151	+/-0.248	0.475	0.222	+/-0.248		pCi/g		RXF2	12/24/15	0625	1528025	9
Antimony-125	U	0.0165	+/-0.0955	0.182	0.0836	+/-0.0958		pCi/g						
Bismuth-212		1.15	+/-0.987	0.877	0.391	+/-0.993		pCi/g						
Bismuth-214		0.750	+/-0.160	0.117	0.0525	+/-0.171		pCi/g						
Cesium-137		0.631	+/-0.0979	0.0633	0.0282	+/-0.110	0.100	pCi/g						
Cobalt-60	U	0.011	+/-0.0446	0.0872	0.0384	+/-0.0449		pCi/g						
Europium-154	U	-0.0328	+/-0.126	0.228	0.0997	+/-0.127		pCi/g						
Lead-212		0.903	+/-0.114	0.109	0.0515	+/-0.136		pCi/g						
Lead-214		0.916	+/-0.205	0.312	0.151	+/-0.218		pCi/g						

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Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3B.R.20.2
 Sample ID: 386429007

Report Date: December 28, 2015

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gammasp. Gamma. Solid "Dry Weight Corrected"</i>														
Potassium-40		14.3	+/-1.50	0.565	0.230	+/-1.98		pCi/g						
Protactinium-231	U	0.376	+/-0.790	0.857	0.398	+/-0.794		pCi/g						
Radium-226		0.750	+/-0.160	0.117	0.0525	+/-0.171		pCi/g						
Radium-228		1.24	+/-0.320	0.269	0.120	+/-0.363		pCi/g						
Thallium-208		0.276	+/-0.0696	0.0667	0.0302	+/-0.0732		pCi/g						
Tin-126	UI	0.00	+/-0.134	0.126	0.0598	+/-0.135		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A/B, solid "Dry Weight Corrected"</i>														
Alpha		11.5	+/-3.23	3.91	1.75	+/-3.94	4.00	pCi/g		JXB7	12/17/15	0844	1531239	10
Beta		19.0	+/-2.35	2.08	0.953	+/-3.55	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	0.123	+/-0.555	1.03	0.451	+/-0.555	2.00	pCi/g		KSD1	12/22/15	0927	1531246	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist. Solid "Dry Weight Corrected"</i>														
Tritium		2.97	+/-2.50	4.15	2.00	+/-2.50	6.00	pCi/g		TXJ1	12/18/15	1814	1529500	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14		1.19	+/-0.993	1.66	0.814	+/-0.997	2.00	pCi/g		TXJ1	12/18/15	2237	1529501	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	-2.2	+/-1.53	3.17	1.46	+/-1.53	5.00	pCi/g		MYM	12/24/15	0811	1529498	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EMU, HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4.5.2.3/Ga-01-R
10	EPA 900.0/SW846 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev 1 Modified
12	EPA 906.0 Modified
13	EPA EERF C-01 Modified

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Contact: Ms. Laurie Losey
Project: Soil Radioisotopes
Client Sample ID: 4.3B.R.20.2
Sample ID: 386429007

Report Date: December 28, 2015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date Time	Batch	Mtd.
14	DOE EML HASL-300, Tc-02-RC Modified												
Surrogate/Tracer Recovery	Test				Batch ID	Recovery%	Acceptable Limits						
Plutonium-242 Tracer	ASP Plutonium Isotopic, Solid "Dry Weight Corrected"				1527520	80	(15%-125%)						
Uranium-232 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"				1527510	75.2	(15%-125%)						
Uranium-235/236 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"				1527510	95.5	(15%-125%)						
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"				1527516	91.4	(15%-125%)						
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"				1527505	80.8	(15%-125%)						
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"				1527513	80.7	(15%-125%)						
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"				1527521	80	(15%-125%)						
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"				1531246	80.3	(25%-125%)						
Technetium-99m Tracer	Liquid Scint Tc99, Solid "Dry Weight Corrected"				1529498	95.9	(15%-125%)						

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Company : MJW Corporation
 Address : 15 Hazelwood Drive
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 Buffalo, New York 14228

Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.5
 Sample ID: 386429008
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 25.8%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		25.8						percent		CXC1	12/01/15	1152	1527019	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238	U	-0.0371	+/-0.0574	0.166	0.0566	+/-0.0575	1.00	pCi/g		JXR1	12/21/15	0933	1527520	2
Plutonium-239/240	U	-0.0538	+/-0.0597	0.182	0.0647	+/-0.0597	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232		0.0544	+/-0.0783	0.0945	0.0177	+/-0.079	1.00	pci/g		JXR1	12/21/15	0932	1527510	3
Uranium-233/234		0.519	+/-0.210	0.101	0.0188	+/-0.231	1.00	pci/g						
Uranium-235/236		0.021	+/-0.0591	0.0631	0.00	+/-0.0592	1.00	pci/g						
Uranium-238		0.855	+/-0.267	0.101	0.0188	+/-0.311	1.00	pci/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	-0.0831	+/-0.225	0.601	0.193	+/-0.226	1.00	pCi/g		JXR1	12/18/15	0923	1527516	4
<i>Alphaspec Th229 - 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		0.780	+/-0.486	0.551	0.189	+/-0.502	1.00	pCi/g		JXR1	12/19/15	1025	1527505	5
Thorium-229		0.159	+/-0.282	0.470	0.151	+/-0.283	1.00	pCi/g						
Thorium-230		0.521	+/-0.387	0.433	0.133	+/-0.395	1.00	pCi/g						
Thorium-232		0.964	+/-0.479	0.341	0.0867	+/-0.500	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241		0.0484	+/-0.0954	0.154	0.0418	+/-0.0958	1.00	pCi/g		JXR1	12/22/15	1039	1527513	6
Curium-242	U	0.0204	+/-0.0758	0.127	0.0236	+/-0.076	1.00	pCi/g						
Curium-243/244		0.0657	+/-0.105	0.162	0.0462	+/-0.106	1.00	pCi/g						
Curium-245/246	U	-0.0127	+/-0.057	0.148	0.0338	+/-0.0572	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241		7.28	+/-7.91	13.3	6.42	+/-8.07	15.0	pCi/g		JXR1	12/24/15	0943	1527521	7
Rad Gamma Spec Analysis														
<i>Gamma 1129, Solid "Dry Weight Corrected"</i>														
Iodine-129	UI	0.00	+/-0.437	0.404	0.179	+/-0.439	1.00	pCi/g		MJH1	12/21/15	1815	1528513	8
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	0.038	+/-0.322	0.606	0.283	+/-0.323		pCi/g		RXF2	12/24/15	0626	1528025	9
Antimony-125	U	-0.0174	+/-0.129	0.230	0.105	+/-0.129		pCi/g						
Bismuth-212		2.25	+/-1.10	1.16	0.518	+/-1.13		pCi/g						
Bismuth-214		0.949	+/-0.172	0.156	0.070	+/-0.192		pCi/g						
Cesium-137		1.09	+/-0.142	0.0908	0.0409	+/-0.172	0.100	pCi/g						
Cobalt-60	U	0.00446	+/-0.0491	0.0999	0.0426	+/-0.0491		pCi/g						
Europium-154	U	0.0945	+/-0.173	0.360	0.160	+/-0.178		pCi/g						
Lead-212		1.11	+/-0.142	0.131	0.0614	+/-0.175		pCi/g						
Lead-214		0.907	+/-0.171	0.176	0.0813	+/-0.189		pCi/g						

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Certificate of Analysis

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 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3B.R.20.5
 Sample ID: 386429008

Report Date: December 28, 2015

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>Gammascpec, Gamma, Solid "Dry Weight Corrected"</i>														
Potassium-40		14.1	+/-1.73	0.947	0.400	+/-2.11		pCi/g						
Protactinium-231	U	0.225	+/-0.654	1.16	0.540	+/-0.664		pCi/g						
Radium-226		0.949	+/-0.172	0.156	0.070	+/-0.192		pCi/g						
Radium-228		1.22	+/-0.305	0.285	0.123	+/-0.362		pCi/g						
Thallium-208		0.312	+/-0.0911	0.0777	0.0348	+/-0.0952		pCi/g						
Tin-126	UI	0.00	+/-0.193	0.136	0.0633	+/-0.194		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A B, solid "Dry Weight Corrected"</i>														
Alpha		13.8	+/-3.78	3.99	1.71	+/-4.63	4.00	pCi/g		JXB7	12/17/15	0846	1531239	10
Beta		19.3	+/-2.91	3.04	1.41	+/-4.03	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	0.307	+/-0.875	1.61	0.688	+/-0.877	2.00	pCi/g		KSD1	12/18/15	1646	1531246	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist. Solid "Dry Weight Corrected"</i>														
Tritium		2.84	+/-2.65	4.42	2.13	+/-2.65	6.00	pCi/g		TXJ1	12/18/15	1948	1529500	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	0.793	+/-1.05	1.76	0.866	+/-1.05	2.00	pCi/g		TXJ1	12/18/15	2339	1529501	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	-1.26	+/-2.24	4.26	1.97	+/-2.24	5.00	pCi/g		MYM	12/24/15	0829	1529498	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, I-01 Modified
9	DOE HASL 300, 4 5 2 3/Ga-01-R
10	EPA 900.0/SW846 9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev 1 Modified
12	EPA 906.0 Modified
13	EPA EERF C-01 Modified

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Project: Soil Radioisotopes
Client Sample ID: 4.3B.R.20.5
Sample ID: 386429008

Report Date: December 28, 2015

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Le	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
14	DOE EML HASL-300, Tc-02-RC Modified													
Surrogate/Tracer	Recovery	Test						Batch ID	Recovery%	Acceptable Limits				
Plutonium-242 Tracer		ASP Plutonium Isotopic, Solid "Dry Weight Corrected"						1527520	69.1	(15%-125%)				
Uranium-232 Tracer		ASP Uranium Isotopic, Solid "Dry Weight Corrected"						1527510	70.1	(15%-125%)				
Uranium-235/236 Tracer		ASP Uranium Isotopic, Solid "Dry Weight Corrected"						1527510	73.2	(15%-125%)				
Americium-243 Tracer		Alphaspec Np237, Solid "Dry Weight Corrected"						1527516	97.4	(15%-125%)				
Actinium-227 Tracer		Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"						1527505	108	(15%-125%)				
Americium-243 Tracer		Am241, Cm Solid "Dry Weight Corrected"						1527513	54.8	(15%-125%)				
Plutonium-242 Tracer		Liquid Scint Pu241, Solid "Dry Weight Corrected"						1527521	69.1	(15%-125%)				
Strontium Carrier		GFPC, Sr90, solid "Dry Weight Corrected"						1531246	74.9	(25%-125%)				
Technetium-99m Tracer		Liquid Scint Tc99, Solid "Dry Weight Corrected"						1529498	93.1	(15%-125%)				

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.6
 Sample ID: 386429009
 Matrix: Soil
 Collect Date: 20-NOV-15
 Receive Date: 30-NOV-15
 Collector: Client
 Moisture: 20.1%

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lo	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Gravimetric Solids														
<i>ASTM D 2216 % Moisture "As Received"</i>														
Moisture		20.1						percent		CXC1	12/01/15	1152	1527019	1
Rad Alpha Spec Analysis														
<i>ASP Plutonium Isotopic, Solid "Dry Weight Corrected"</i>														
Plutonium-238	U	0.00413	+/-0.0432	0.0902	0.0229	+/-0.0432	1.00	pCi/g		JXR1	12/21/15	0933	1527520	2
Plutonium-239/240		0.0336	+/-0.0595	0.0901	0.0229	+/-0.0596	1.00	pCi/g						
<i>ASP Uranium Isotopic, Solid "Dry Weight Corrected"</i>														
Uranium-232	U	-0.0117	+/-0.0352	0.099	0.0252	+/-0.0353	1.00	pci/g		JXR1	12/21/15	0932	1527510	3
Uranium-233/234		0.758	+/-0.214	0.0921	0.0234	+/-0.249	1.00	pci/g						
Uranium-235/236		0.0381	+/-0.0606	0.0838	0.0192	+/-0.0609	1.00	pci/g						
Uranium-238		0.750	+/-0.211	0.0723	0.0135	+/-0.246	1.00	pci/g						
<i>Alphaspec Np237, Solid "Dry Weight Corrected"</i>														
Neptunium-237	U	-0.25	+/-0.387	1.12	0.382	+/-0.387	1.00	pCi/g		JXR1	12/18/15	0923	1527516	4
<i>Alphaspec Th229 - 228,230,232 Solid "Dry Weight Corrected"</i>														
Thorium-228		1.96	+/-0.757	0.549	0.173	+/-0.819	1.00	pCi/g		JXR1	12/19/15	1025	1527505	5
Thorium-229	U	-0.0132	+/-0.199	0.465	0.133	+/-0.199	1.00	pCi/g						
Thorium-230		0.849	+/-0.527	0.554	0.178	+/-0.544	1.00	pCi/g						
Thorium-232		0.775	+/-0.468	0.316	0.0591	+/-0.483	1.00	pCi/g						
<i>Am241, Cm Solid "Dry Weight Corrected"</i>														
Americium-241	U	0.0176	+/-0.079	0.155	0.0442	+/-0.0791	1.00	pCi/g		JXR1	12/21/15	1250	1527513	6
Curium-242	U	-0.00596	+/-0.0514	0.119	0.0223	+/-0.0516	1.00	pCi/g						
Curium-243/244		0.0549	+/-0.0872	0.121	0.0276	+/-0.0876	1.00	pCi/g						
Curium-245/246		0.00	+/-0.0508	0.0757	0.00	+/-0.051	1.00	pCi/g						
<i>Liquid Scint Pu241, Solid "Dry Weight Corrected"</i>														
Plutonium-241		7.83	+/-7.21	12.0	5.82	+/-7.40	15.0	pCi/g		JXR1	12/24/15	1030	1527521	7
Rad Gamma Spec Analysis														
<i>Gamma 1129, Solid "Dry Weight Corrected"</i>														
Iodine-129	U	0.0718	+/-0.188	0.376	0.165	+/-0.191	1.00	pCi/g		MJH1	12/21/15	1815	1528513	8
<i>Gammaspac, Gamma, Solid "Dry Weight Corrected"</i>														
Actinium-227	U	-0.091	+/-0.286	0.525	0.245	+/-0.289		pCi/g		RXF2	12/24/15	0637	1528025	9
Antimony-125	U	0.0253	+/-0.122	0.230	0.106	+/-0.122		pCi/g						
Bismuth-212	UI	0.00	+/-0.711	1.41	0.647	+/-0.833		pCi/g						
Bismuth-214		0.690	+/-0.146	0.142	0.0638	+/-0.157		pCi/g						
Cesium-137		0.821	+/-0.113	0.0754	0.0334	+/-0.132	0.100	pCi/g						
Cobalt-60	U	0.0321	+/-0.0411	0.0946	0.0408	+/-0.0437		pCi/g						
Europium-154	UI	0.00	+/-0.130	0.303	0.134	+/-0.148		pCi/g						
Lead-212		0.964	+/-0.138	0.124	0.0585	+/-0.158		pCi/g						
Lead-214		0.915	+/-0.244	0.158	0.073	+/-0.254		pCi/g						

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : MJW Corporation
 Address : 15 Hazelwood Drive
 Suite 112
 Buffalo, New York 14228
 Contact: Ms. Laurie Losey
 Project: Soil Radioisotopes
 Client Sample ID: 4.3B.R.20.6
 Sample ID: 386429009

Report Date: December 28, 2015

Project: MJWC00115
 Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
Rad Gamma Spec Analysis														
<i>GammaSpec, Gamma, Solid "Dry Weight Corrected"</i>														
Potassium-40		12.3	+/-1.58	0.705	0.287	+/-2.01		pCi/g						
Protactinium-231	U1	0.00	+/-0.936	0.952	0.440	+/-0.942		pCi/g						
Radium-226		0.690	+/-0.146	0.142	0.0638	+/-0.157		pCi/g						
Radium-228		1.27	+/-0.276	0.199	0.0813	+/-0.316		pCi/g						
Thallium-208		0.244	+/-0.0941	0.0645	0.0284	+/-0.0962		pCi/g						
Tin-126	U	0.0495	+/-0.213	0.214	0.103	+/-0.214		pCi/g						
Rad Gas Flow Proportional Counting														
<i>GFPC, Gross A-B, solid "Dry Weight Corrected"</i>														
Alpha		13.1	+/-3.95	3.95	1.63	+/-4.72	4.00	pCi/g		JXB7	12/17/15	0847	1531239	10
Beta		22.9	+/-3.22	3.00	1.37	+/-4.56	10.0	pCi/g						
<i>GFPC, Sr90, solid "Dry Weight Corrected"</i>														
Strontium-90	U	-0.731	+/-0.892	1.85	0.829	+/-0.892	2.00	pCi/g		KSD1	12/18/15	1648	1531246	11
Rad Liquid Scintillation Analysis														
<i>LSC, Tritium Dist, Solid "Dry Weight Corrected"</i>														
Tritium	U	1.76	+/-2.35	3.96	1.91	+/-2.35	6.00	pCi/g		TXJ1	12/18/15	2121	1529500	12
<i>Liquid Scint C14, Solid "Dry Weight Corrected"</i>														
Carbon-14	U	0.069	+/-0.992	1.69	0.831	+/-0.992	2.00	pCi/g		TXJ1	12/19/15	0042	1529501	13
<i>Liquid Scint Tc99, Solid "Dry Weight Corrected"</i>														
Technetium-99	U	-1.16	+/-1.44	2.83	1.30	+/-1.44	5.00	pCi/g		MYM	12/24/15	0846	1529498	14

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
Dry Soil Prep	Dry Soil Prep GL-RAD-A-021	CXC1	12/01/15	1152	1527019

The following Analytical Methods were performed

Method	Description
1	ASTM D 2216 (Modified)
2	DOE EML HASL-300, Pu-11-RC Modified
3	DOE EML HASL-300, U-02-RC Modified
4	ASTM C 1476-00 Modified
5	DOE EML HASL-300, Th-01-RC Modified
6	DOE EML HASL-300, Am-05-RC Modified
7	DOE EML HASL-300, Pu-11-RC Modified
8	DOE EML HASL-300, J-01 Modified
9	DOE HASL 300, 4.5.2.3/Ga-01-R
10	EPA 900.0/SW846.9310/SM 7110B Modified
11	EPA 905.0 Modified/DOE RP501 Rev. 1 Modified
12	EPA 906.0 Modified
13	EPA EERF C-01 Modified

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Report Date: December 28, 2015

Contact: Ms. Laurie Losey
Project: Soil Radioisotopes

Client Sample ID: 4.3B.R.20.6
Sample ID: 386429009

Project: MJWC00115
Client ID: MJWC001

Parameter	Qualifier	Result	Uncertainty	MDC	Lc	TPU	RL	Units	DF	Analyst	Date	Time	Batch	Mtd.
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14 DOE EML HASL-300, Te-02-RC Modified

Surrogate/Tracer Recovery	Test	Batch ID	Recovery%	Acceptable Limits
Plutonium-242 Tracer	ASP Plutonium Isotopic, Solid "Dry Weight Corrected"	1527520	77	(15%-125%)
Uranium-232 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1527510	74.3	(15%-125%)
Uranium-235/236 Tracer	ASP Uranium Isotopic, Solid "Dry Weight Corrected"	1527510	89	(15%-125%)
Americium-243 Tracer	Alphaspec Np237, Solid "Dry Weight Corrected"	1527516	58.8	(15%-125%)
Actinium-227 Tracer	Alphaspec Th229 + 228,230,232 Solid "Dry Weight Corrected"	1527505	90.3	(15%-125%)
Americium-243 Tracer	Am241, Cm Solid "Dry Weight Corrected"	1527513	66	(15%-125%)
Plutonium-242 Tracer	Liquid Scint Pu241, Solid "Dry Weight Corrected"	1527521	77	(15%-125%)
Strontium Carrier	GFPC, Sr90, solid "Dry Weight Corrected"	1531246	77.1	(25%-125%)
Technetium-99m Tracer	Liquid Scint Te99, Solid "Dry Weight Corrected"	1529498	95.5	(15%-125%)

Notes:

TPU and Counting Uncertainty are calculated at the 95% confidence level (1.96-sigma).