



November 9, 2018

Lab ID : SP 1813440-001

Customer ID : 2-19889

McCampbell Analytical, Inc.

1534 Willow Pass Road

Pittsburgh, CA 94565

Sampled On : October 4, 2018-10:00

Sampled By : Not Available

Received On : October 9, 2018-09:44

Matrix : Water

Description : C-1

Project : 1810247-001C&D

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Total Alpha Radium (226)	0.264 ± 0.172	0.391	pCi/L	3	903.0	10/22/18-19:00 2P1812596	903.0	11/02/18-17:06 2A1816161
Ra 228	0.075 ± 0.672	0.384	pCi/L	2	Ra - 05	10/29/18-18:30 2P1812374	Ra - 05	11/04/18-11:40 2A1816245

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



November 9, 2018

Lab ID : SP 1813440-002

Customer ID : 2-19889

McCampbell Analytical, Inc.

1534 Willow Pass Road

Pittsburgh, CA 94565

Sampled On : October 4, 2018-10:00

Sampled By : Not Available

Received On : October 9, 2018-09:44

Matrix : Water

Description : P-1

Project : 1810247-002C&D

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Total Alpha Radium (226)	0.659 ± 0.251	0.391	pCi/L	3	903.0	10/22/18-19:00 2P1812596	903.0	11/02/18-17:06 2A1816161
Ra 228	0.017 ± 0.671	0.400	pCi/L	2	Ra - 05	10/29/18-18:30 2P1812374	Ra - 05	11/04/18-12:20 2A1816246

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



November 9, 2018

Lab ID : SP 1813440-003

Customer ID : 2-19889

McCampbell Analytical, Inc.

1534 Willow Pass Road

Pittsburgh, CA 94565

Sampled On : October 4, 2018-10:00

Sampled By : Not Available

Received On : October 9, 2018-09:44

Matrix : Water

Description : P-2

Project : 1810247-003C&D

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Total Alpha Radium (226)	0.044 ± 0.105	0.391	pCi/L	3	903.0	10/22/18-19:00 2P1812596	903.0	11/02/18-17:06 2A1816161
Ra 228	0.000 ± 0.674	0.506	pCi/L	2	Ra - 05	10/29/18-18:30 2P1812374	Ra - 05	11/04/18-12:20 2A1816244

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.

MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).

AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following

If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L

Uranium is less than or equal to 20 pCi/L

Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.



November 9, 2018

Lab ID : SP 1813440-004
Customer ID : 2-19889

McC Campbell Analytical, Inc.

1534 Willow Pass Road
Pittsburgh, CA 94565

Sampled On : October 4, 2018-11:55
Sampled By : Not Available
Received On : October 9, 2018-09:44
Matrix : Water

Description : P-3
Project : 1810247-004C&D

Sample Result - Radio

Constituent	Result ± Error	MDA	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Radio Chemistry								
Total Alpha Radium (226)	0.066 ± 0.114	0.391	pCi/L	3	903.0	10/22/18-19:00 2P1812596	903.0	11/02/18-17:06 2A1816161
Ra 228	0.075 ± 0.734	0.383	pCi/L	2	Ra - 05	10/29/18-18:30 2P1812374	Ra - 05	11/04/18-12:00 2A1816245

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MDA = Minimum Detectable Activity (Calculated at the 95% confidence level) = Data utilized by DHS to determine matrix interference.
MCL / AL = Maximum Contamination Level / Action Level. Alpha's Action Level of 5 pCi/L is based on the Assigned Value (AV).
AV = Assigned Value(Gross Alpha Result + (0.84 x Error)). CCR Section 64442: Drinking Water Compliance Note: Do the following
If Gross Alpha's (AV) exceeds 5 pCi/L run Uranium. If Gross Alpha's (AV) minus Uranium exceeds 5 pCi/L run Radium 226.

Drinking Water Compliance:

Gross Alpha (AV) minus Uranium is less than or equal to 15 pCi/L
Uranium is less than or equal to 20 pCi/L
Radium 226 + Radium 228 is less than or equal to 5 pCi/L

Note: Samples are held for 3-6 months prior to disposal.