

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

METALS CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q2259

MATRIX: Water

METHOD: 6020B,7470A

	NA	NO	YES
1. Calibration Summary met criteria.			✓
2. ICP Interference Check Sample Results Summary Submitted.			✓
3. Serial Dilution Summary (if applicable) Submitted.			✓
4. Laboratory Control Sample Summary (if applicable) Submitted.			✓
5. Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
6. Matrix Spike/Matrix Spike Duplicate Recoveries Met Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Matrix Spike (OU4-PCS-TC-37-060525MS) analysis met criteria for all samples except for Barium, Lead, Silver, and Thallium due to Chemical Interference during Digestion Process. The Matrix Spike Duplicate (OU4-PCS-TC-37-060525MSD) analysis met criteria for all samples except for Mercury due to sample matrix interference. The Matrix Spike Duplicate (OU4-PCS-TC-37-060525MSD) analysis met criteria for all samples except for Barium, Lead, Silver and Thallium due to Chemical Interference during Digestion Process.			
7. Sample Duplicate Analysis Met QC Criteria		✓	
If not met, list those compounds and their recoveries which fall outside the acceptable range.			
The Duplicate (OU4-PCS-TC-37-060525DUP) analysis met criteria for all samples except for Copper due to matrix interference.			
8. Digestion Holding Time Met			✓
If not met, list number of days exceeded for each sample:			
9. Analysis Holding Time Met			✓
If not met, list those compounds and their recoveries which fall outside the acceptable range.			

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METALS CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

ADDITIONAL COMMENTS:

The Post Digest Spike (OU4-PCS-TC-37-060525A) analysis met criteria for all samples except for Barium, Lead, Mercury and Thallium due to unknown chemical interference of matrix with the addition of spike amount after digestion and before analysis; matrix has suppression effect during addition of spike.

Q2019 All samples analyzed with dilution because of SPLP fluid which has concentrated mix of acids can cause problem to the detector if analyzed straight.

Collision cell is being used to remove potential interferences. The analytes Na, Mg, Al, K, V, Cr, Mn, Fe, Co, Ni, Cu, Zn, As are being analyzed with collision cell and analytes Be, B, Ca, Ti, Se, Sr, Zr, Mo, Ag, Cd, Sn, Sb, Ba, Tl, Pb, U are being analyzed with Non-Collision Cell. Helium gas is used for the Collision Cell analysis.

QA REVIEW

Date