



Paragon Analytics, Inc.

Radiochemistry Case Narrative

Tritium

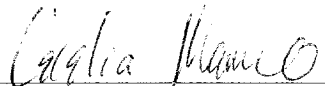
Cabrera Services-NY

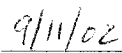
AMES \ 03-3005.00

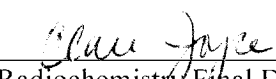
PAI WO 0208165

1. This report consists of 6 water samples received by Paragon on 8/28/02.
2. These samples were prepared according to Paragon Analytics, Inc. procedures SOP700R7.
3. The samples were analyzed for the presence of tritium according to Paragon Analytics, Inc. procedure SOP704R5. The analyses were completed on 9/9/02.
4. The analysis results for these samples are reported in units of pCi/L. The samples were not filtered prior to analysis.
5. The magnitude of the negative activity for samples RW4W01-GB (PAI ID 0208165-11), and RW6W01-GB (PAI 0208165-19) are greater than the 2 sigma TPU. The analyst's review of the data does not indicate a problem with the instrument data or the subsequent reporting systems. The data quality is not believed to be affected and the results are submitted without qualification. Under typical conditions, where background level sample data is normally distributed and analyzed by paired observations, this event is likely to occur at least 2.5% of the time.
6. No further anomalous situations were noted during the preparation and analysis of these samples. All remaining quality control criteria were met.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, Paragon Analytics, Inc. certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.


Cecelia Manner
Radiochemistry Instrument Technician


Date


Glenn Joyce
Radiochemistry Final Data Review


Date

Sample Results Summary

Client Name: CABRERA SERVICES-NY

Client Project Name: AMES

Client Project Number: 03-3005.00

Laboratory Name: Paragon Analytics, Inc.

PAI Work Order: 0208165

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Reported on: Tuesday, September 10, 2002

07:44:11

Lab Sample ID	Client Sample ID	Test	Nuclide	Result +/- 2 s TPU	MDC	Units	Matrix	Prep Batch	Date Analyzed	Flags
0208165-1	RW1W01-GB	TRITIUM	H-3	-160 +/- 220	380	pCi/L	Water	LS01359	9/8/02	U
0208165-5	RW2W01-GB	TRITIUM	H-3	-140 +/- 220	380	pCi/L	Water	LS01359	9/8/02	U
0208165-7	RW3W01-GB	TRITIUM	H-3	-70 +/- 230	380	pCi/L	Water	LS01359	9/8/02	U
0208165-11	RW4W01-GB	TRITIUM	H-3	-250 +/- 220	380	pCi/L	Water	LS01359	9/8/02	U
0208165-15	RW5W01-GB	TRITIUM	H-3	-30 +/- 230	380	pCi/L	Water	LS01359	9/9/02	U
0208165-19	RW6W01-GB	TRITIUM	H-3	-230 +/- 220	380	pCi/L	Water	LS01359	9/9/02	U

Comments:

Data Package ID: H3L0208165-1

Qualifiers/Flags:

U - Result is less than the sample specific MDC.
LT - Result is less than Requested MDC, greater than sample specific MDC.
Y1 - Chemical Yield is in control at 100-110%. Quantitative Yield is assumed.
Y2 - Chemical Yield outside default limits.

Abbreviations:

TPU - Total Propagated Uncertainty (see PAI SOP 743)
MDC - Minimum Detectable Concentration (see PAI SOP 709)