

RECEIVED OCTOBER 24, 2007 .

0077048

W05241

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RECEIVED
MAY 05 2008

EDMC

Analytical Data Package Prepared For

Fluor Hanford

Radiochemical Analysis By

TAL Richland TARL

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Data Package Contains _____ Pages

Report Nbr: 37073

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05241	S07-006	B1NK47	J7I280268-1	J7WMW1AA	9J7WMW10	7272175

Comments:

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

Fluor Hanford, Inc.
1200 Jadwin Ave.
Richland, WA 99352

October 22, 2007

Attention: Steve Trent

SAF Number	:	S07-006
Date SDG Closed	:	September 28, 2007
Number of Samples	:	One (1)
Sample Type	:	Water
SDG Number	:	W05241
Data Deliverable	:	15/15 Day

CASE NARRATIVE

I. Introduction

On September 28, 2007 one sample was received at TestAmerica Richland (TARL) for radiochemical analysis. Upon receipt, the sample was assigned to lot J7I280268 and assigned the following laboratory ID number to correspond with the Fluor Hanford (FH) specific ID:

<u>FH ID#</u>	<u>TARL ID#</u>	<u>MATRIX</u>	<u>DATE OF RECEIPT</u>
B1NK47	J7WMW	WATER	9/28/07

II. Sample Receipt

The sample was received in good condition.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Liquid Scintillation Counting
Tritium by method RICH-RC-5007

October 22, 2007

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section.

QC and sample results are reported in the same units.

V. Comments

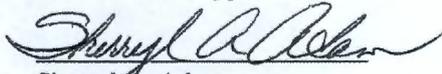
Liquid Scintillation Counting

Tritium by method RICH-RC-5007:

The LCS, batch blank, samples and sample duplicate (BINK47) results are within contractual requirements.

I certify that this Certificate of Analysis is in compliance with the SOW, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the Laboratory Manager, or a designee as verified by the following signature.

Reviewed and approved:



Sherryl A. Adam
Project Manager

Drinking Water Method Cross References

DRINKING WATER ASTM METHOD CROSS REFERENCES		
Referenced Method	Isotope(s)	STL Richland's SOP number
EPA 901.1	Cs-134, I-131	RICH-RC-5017
EPA 900.0	Alpha & Beta	RICH-RC-5014
EPA 00-02	Gross Alpha (Coprecipitation)	RICH-RC-5021
EPA 903.0	Total Alpha Radium (Ra-226)	RICH-RC-5027
EPA 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr-89/90	RICH-RC-5006
ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007

Uncertainty Estimation

Test America Richland has adopted the internationally accepted approach to estimating uncertainties described in "NIST Technical Note 1297, 1994 Edition". The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, $R = \text{constants} * f(x,y,z, \dots)$. The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/\sqrt{n}), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or STL Richland.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
Total Uncert (#s) <i>u_c - Combined Uncertainty.</i>	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, <i>u_c the combined uncertainty.</i> The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or STL Richland "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. $Lc = (1.645 * \text{Sqrt}(2 * (\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin})) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC MDA	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. $MDC = (4.65 * \text{Sqrt}((\text{BkgndCnt} / \text{BkgndCntMin}) / \text{SCntMin}) + 2.71 / \text{SCntMin}) * (\text{ConvFct} / (\text{Eff} * \text{Yld} * \text{Abn} * \text{Vol}) * \text{IngrFct})$. For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the Work Order Number.
RER	The equation Replicate Error Ratio = $(S-D) / [\text{sqrt}(\text{TPUs}^2 + \text{TPUd}^2)]$ as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by STL Richland upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

10/22/2007 11:08:35 AM

TAL Richland Report

Lab Code: TARL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 37073 File Name: h:\Reportdb\edd\FeadIVRad\W05241.Edd, h:\Reportdb\edd\FeadIVRad\37073.Edd

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr	QC Type:	Moisture/Solids%*	Distilled Volume	Sample On Date:	Collection Date:				
9J7WMW10	B1NK47		MW6-SBB-A1	S07-006	W05241					09/28/2007 12:08				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7272175	H-3	10028-17-8	7.36E+00	pCi/L	5.3E+00	8.4E+00	U	7.53E+00	100.0	TRITIUM_ELECT_L	1.5001E-01	L	10/16/2007 16:13	I

Monday, October 22, 2007

TAL Richland Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\Rad\W05241.Edd, h:\Reportdb\edd\Fead\Rad\37073.Edd

Lab Sample Id: J70QG1DN

Sdg/Rept Nbr: W05241

37073

Collection Date: 09/28/2007 12:08

Client Id: INTRA-LAB BL

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type:

Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AD	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ Yield	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7272175	H-3 10028-17-8	4.98E+02	pCi/L	1.4E+02 1.2E+02			100.0		TRITIUM_ELE	5.00E-03 L	10/16/2007 16:13				D

TAL Richland
rptFeadRadEdd v3.68

U Qual - Analyzed for, but the result is less than the Mdc or gamma scan did not identify the nuclide.
J Qual - No U qualifier has been assigned and the result is below the Reporting Limit (CRDL).
B Qual- Analyte was found in the associated laboratory blank above the MDC.

1

Monday, October 22, 2007

TAL Richland QC Blank Report

Lab Code: TARI

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\VRad\W05241.Edd, h:\Reportdb\edd\Fead\VRad\37073.Edd

Lab Sample Id: J70QG1AB

Sdg/Rept Nbr: W05241

37073

Collection Date: 09/28/2007 12:08

Client Id: NA

Matrix: WATER

WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AB	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7272175 BLK	H-3 10028-17-8	1.98E+00	pCi/L	8.3E+00 5.6E+00	U	7.50E+00	100.0		TRITIUM_ELE	1.50E-01 L	10/16/2007 16:13				D

Monday, October 22, 2007

TAL Richland QC Control Sample Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\Fead\IVRad\W05241.Edd, h:\Reportdb\edd\Fead\IVRad\37073.Edd

Lab Sample Id: J70QG1CS

Sdg/Rept Nbr: W05241 37073

Collection Date: 09/28/2007 12:08

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
	MW6-SBB-A19981								AC	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Allq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7272175 BS	H-3 10028-17-8	5.21E+02	pCi/L	9.2E+01 2.1E+01		7.52E+00	100.0	4.55E+02 114.7	TRITIUM_ELE	1.50E-01 L	10/16/2007 16:13			70 130	D

Monday, October 22, 2007

TAL Richland QC Duplicate Report

Lab Code: TARL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05241.Edd, h:\Reportdb\edd\FeadIV\Rad\37073.Edd

Lab Sample Id: J7WMW1CR
 Client Id: B1NK47
 Moisture/Solids%*:

Sdg/Rept Nbr: W05241 37073
 Matrix: WATER WATER
 QC Type: DUP

Collection Date: 09/28/2007 12:08
 Sample On Date:
 Received Date: 09/28/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-006	MW6-SBB-A19981								AE	H					
Batch # / Qc Type	Analyt/ CAS#	Result/ Orig Rst	Unit	Tot/Cnt Uncert 2S	Qu- al	MDC	Tracer Yield	Spk Conc/ %Rec	Analy Method	Aliq Size/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7272175 DUP	H-3 10028-17-8	8.41E+00 7.36E+00	pCi/L	8.6E+00 5.6E+00	U	7.48E+00	100.0		TRITIUM_ELE	1.50E-01	10/16/2007 16:13	13.2 20.0	0.2 3		D



Data Review/Verification Checklist
RADIOCHEMISTRY, First Level Review

10/20/2007 9:44:35 AM

Lot No., Due Date: J71280268; 11/15/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7272175; RH3EE H3EE by LSC
SDG, Matrix: W05241; WATER

1.0 QC

1.1 Is the ICOC page complete; includes all applicable analysis, dates, SOP numbers, and revisions? Yes No N/A

2.0 QC Batch

2.1 Do the Summary/Detailed Reports include a calculated result for each sample listed on the QC Batch Sheet? Yes No N/A

2.2 Are the QC appropriate for the analysis included in the batch? Yes No N/A

2.3 Is the Analytical Batch Worksheet complete; includes as appropriate, volumes, count times, etc? Yes No N/A

2.4 Does the Worksheets include a Tracer Vial label for each sample? Yes No N/A

3.0 QC & Samples

3.1 Is the blank results, yield, and MDA within contract limits? Yes No N/A

3.2 Is the LCS result, yield, and MDA within contract limits? Yes No N/A

3.3 Are the MS/MSD results, yields, and MDA within contract limits? Yes No N/A

3.4 Are the duplicate result, yields, and MDAs within contract limits? Yes No N/A

3.5 Are the sample yields and MDAs within contract limits? Yes No N/A

4.0 Raw Data

4.1 Were results calculated in the correct units? Yes No N/A

4.2 Were analysis volumes entered correctly? Yes No N/A

4.3 Were Yields entered correctly? Yes No N/A

4.4 Were spectra reviewed/meet contractual requirements? Yes No N/A

4.5 Were raw counts reviewed for anomalies? Yes No N/A

5.0 Other

5.1 Are all nonconformances included and noted? Yes No N/A

5.2 Are all required forms filled out? Yes No N/A

5.3 Was the correct methodology used? Yes No N/A

5.4 Was transcription checked? Yes No N/A

5.5 Were all calculations checked at a minimum frequency? Yes No N/A

5.6 Are worksheet entries complete and correct? Yes No N/A

6.0 Comments on any No response:

First Level Review *Lisa Antonson*

Date 10/20/07



Data Review Checklist
RADIOCHEMISTRY
 Second Level Review

Batch Number: 7272175
W05241

Review Item	Yes (✓)	No (✓)	NA (✓)
A. Sample Analysis			
1. Are the sample yields within acceptance criteria?	/		
2. Is the sample Minimum Detectable Activity < the Contract Detection Limit?	/		
3. Are the correct isotopes reported?	/		
B. QC Samples			
1. Is the Minimum Detectable Activity for the blank result ≤ the Contract Detection Limit?	/		
2. Does the blank result meet the Contract criteria?	/		
3. Is the blank result < the Contract Detection Limit?	/		
4. Is the blank result > the Contract Detection Limit but the sample result < the Contract Detection Limit?			/
5. Is the LCS recovery within contract acceptance criteria?	/		
6. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	/		
7. Do the MS/MSD results and yields meet acceptance criteria?			/
8. Do the duplicate sample results and yields meet acceptance criteria?	/		
C. Other			
1. Are all Non-conformances included and noted?			/
2. Are all required forms filled out?	/		
3. Was the correct methodology used?	/		
4. Was transcription checked?	/		
5. Were all calculations checked at a minimum frequency?	/		
6. Were units checked?	/		

Comments on any "No" response: _____

Second Level Review: _____

Date: 10-22-07

TAL RICHLAND

FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S07-006-386	
		<i>J7I280268 W052401 Due 10-12-07</i>				Page 1 of 1	
Collector <i>Fluor Hanford</i> K. B. HULSE		Contact/Requester Steve Trent		Telephone No. 509-373-5869		MSIN FAX	
SAF No. S07-006		Sampling Origin Hanford Site		Purchase Order/Charge Code			
Project Title SURV. JUNE 2007		HNF-N-506-5		Ice Chest No.		Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.			
Protocol SURV		Priority: 15 Days PRIORITY		Offsite Property No.			
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)				SPECIAL INSTRUCTIONS		Hold Time	
						Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
FLUOR HANFORD		CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST				C.O.C. # S07-006-386	
						Page 1 of 1	
Collector K. B. HULSE		Contact/Requester Steve Trent		Telephone No. 509-373-5869		MSIN FAX	
SAF No. S07-006		Sampling Origin Hanford Site		Purchase Order/Charge Code			
Project Title SURV. JUNE 2007		HNF-N-506-5		Ice Chest No.		Temp.	
Shipped To (Lab) Severn Trent Incorporated, Richland		Method of Shipment Govt. Vehicle		Bill of Lading/Air Bill No.			
Protocol SURV		Priority: 45 Days PRIORITY		Offsite Property No.			
POSSIBLE SAMPLE HAZARDS/REMARKS ** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR but are not releasable per DOE Order 5400.5 (1990/1993)				SPECIAL INSTRUCTIONS		Hold Time	
						Total Activity Exemption: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative	
B1NK47		W	9/28/07	1208	1x20-mL P	Activity Scan <i>JTWmw</i>	None	
Relinquished By Fluor Hanford K. B. HULSE		Print Sign <i>[Signature]</i>		Date/Time SEP 28 2007 1243	Received By J. Herrick <i>[Signature]</i>		Print Sign SEP 28 2007 1243	
Relinquished By J. Herrick <i>[Signature]</i>		Date/Time 9/28/07 1245		Received By J. Herrick <i>[Signature]</i>		Date/Time 09-28-07 1245		
Relinquished By		Date/Time		Received By		Date/Time		
Relinquished By		Date/Time		Received By		Date/Time		
FINAL SAMPLE DISPOSITION		Disposal Method (e.g., Return to customer, per lab procedure, used in process)				Disposed By		Date/Time

- Matrix ***
- S = Soil
 - SR = Sediment
 - SO = Solid
 - SL = Sludge
 - W = Water
 - O = Oil
 - A = Air
 - DS = Drum Solid
 - DI = Drum Liquid
 - T = Tissue
 - WI = Wine
 - L = Liquid
 - V = Vegetation
 - X = Other

TAL RICHLAND

9/29/2007 4:32:45 PM

Sample Preparation/Analysis

P

Balance Id: 12424

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint
51 CLIENT: HANFORD

PRIORITY

Pipet #: _____

AnalyDueDate: 10/15/2007 **WO 5241**

Sep1 DT/Tm Tech: 10-307am

Batch: 7272175 WATER pCi/L
SEQ Batch, Test: None

PM, Quote: SA , 57671

Sep2 DT/Tm Tech:

Prep Tech:



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
-----------------------------------	----------------	--------------------------	---------------------	----------------	-------------	------------------------------	-----------------------	-----------

1 J7WMW-1-AA J71280268-1-SAMP 09/28/2007 12:08								
2 J7WMW-1-AC-X J71280268-1-DUP 09/28/2007 12:08								
3 J70QG-1-AA-B J71290000-175-BLK 09/28/2007 12:08								
4 J70QG-1-AC-C J71290000-175-LCS 09/28/2007 12:08								
5 J70QG-1-AD-BN J71290000-175-IBLK 09/28/2007 12:08								

Comments:

All Clients for Batch:
384868, Pacific Northwest National Laboratory Pacific Northwest National Lab, SA , 57671

J7WMW1AA-SAMP Constituent List:
H-3 RDL:1.00E+01 pCi/L LCL:70 UCL:130 RPD:20

STL Richland Key: In - Initial Amt, fl - Final Amt, dl - Diluted Amt, s1 - Sep1, s2 - Sep2 Page 1 ISV - Insufficient Volume for Analysis WO Cnt: 5
Richland Wa. pd - Prep Dt, r - Reference Dt, ec-Enrichment Cell, ct-Cocktailed Added ICOC v4.8.26

TAL RICHLAND

9/29/2007 4:32:46 PM

Sample Preparation/Analysis

Balance Id: 12424

AS H-3 Prp/SepRC5024
 U3 Enriched Tritium by Liquid Scint
 5I CLIENT: HANFORD

Pipet #: _____

AnalyDueDate: 10/15/2007

Sep1 DT/Tm Tech: 10-3-07 *ben*

Batch: 7272175
 SEQ Batch, Test: None

pCi/L

Sep2 DT/Tm Tech: _____

Prep Tech: _____



Work Order, Lot, Sample Date/Time	Total Amt/Unit	Initial Aliquot Amt/Unit	QC Tracer Prep Date	Count Time Min	Detector Id	Count On Off (24hr) Circle	CR Analyst, Init/Date	Comments:
J70QG1AA-BLK:								
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:			
J70QG1AC-LCS:								
H-3	RDL:10	pCi/L	LCL:70	UCL:130	RPD:20			
J70QG1AD-IBLK:								
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:			
J7WMW1AA-SAMP Calc Info:								
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs: B
J70QG1AA-BLK:								
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs: B
J70QG1AC-LCS:								
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs: B
J70QG1AD-IBLK:								
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y	ODRs: B

Approved By _____ Date: _____

10/20/2007 9:44:08 AM

ICOC Fraction Transfer/Status Report

ByDate: 10/20/2006, 10/25/2007, Batch: '7272175', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7272175				
AC	CalcC	McDowellID	10/1/2007 9:03:59	
SC		wagarr	IsBatched 9/29/2007 4:33:38 PM	ICOC_RADCALC v4.8.26
SC		McDowellID	InSep1 10/1/2007 9:03:59 AM	RICH-RC-5024 REVISION 2
SC		BlackCL	CalcC 10/18/2007 11:31:04 AM	RICH-RD-0001 REVISION 4
AC		McDowellID	10/3/2007 8:50:44	
AC		BlackCL	10/18/2007 11:31:04	

AC: Accepting Entry; SC: Status Change

STL Richland
Richland Wa.