

Analytical Data Package Prepared For
Pacific Northwest National Lab

Radiochemical Analysis By

STL Richland STLRL

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

Data Package Contains _____ Pages

Report Nbr: 34549

SDG Nbr	ORDER Nbr	CLIENT ID NUMBER	LOT Nbr	WORK ORDER	RPT DB ID	BATCH
W05092I	S07-001	B1LNJ6	J7A150170-1	JMV0M1AA	9JMV0M10	7022439
<i>Dayes</i>		B1LNJ7	J7A150170-2	JMV0P1AA	9JMV0P10	7022439
<i>4/26/12</i>						

Comments:

STL Richland
2800 George Washington Way
Richland, WA 99354

Tel: 509 375 3131 Fax: 509 375 5590
www.stl-inc.com

Certificate of Analysis

Pacific Northwest National Laboratories
Sigma V Building
Richland, WA 99352

March 16, 2007

Attention: Dot Stewart

SAF Number	:	S07-001
Date SDG Closed	:	December 27, 2007
Number of Samples	:	Two (2)
Sample Type	:	Water
SDG Number	:	W05092
Data Deliverable	:	45-Day / Summary

CASE NARRATIVE

I. Introduction

On January 11, 2007 two water samples were received at STL Richland (STLR) for radiochemical analysis. Upon receipt, the samples were assigned the following laboratory ID numbers to correspond with the Pacific Northwest National Laboratories (PGW) specific IDs:

<u>PGW ID#</u>	<u>STLR ID#</u>	<u>DATE OF RECEIPT</u>	<u>MATRIX</u>
B1LNJ6	JMV0M	1/11/07	WATER
B1LNJ7	JMV0P	1/11/07	WATER

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

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:

Alpha Spectroscopy
Uranium 234, 235 and 238 by method RICH-RC-5039

Liquid Scintillation Counting
Enriched Tritium by method RICH-RC-5024

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

Enriched Tritium by method RICH-RC-5024

The LCS, batch blank, samples and sample duplicate (B1LNJ6) 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 903.1	Ra-226	RICH-RC-5005
EPA 904.0	Ra-228	RICH-RC-5005
EPA 905.0	Sr89/90	RICH-RC-5006
ASTM D2460	Total Radium	RICH-RC-5027
Standard Method 7500-U-C & ASTM D5174	Uranium	RICH-RC-5058
EPA 906.0	Tritium	RICH-RC-5007
NOTE:		
The Gross Alpha LCS is prepared with Am-241 (unless otherwise specified in the case narrative)		
The Gross Beta LCS is prepared with Sr/Y-90 (unless otherwise specified in the case narrative)		

Uncertainty Estimation

STL 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%. $Lc = (1.645 * \sqrt{2 * (BkgndCnt / BkgndCntMin) / SCntMin}) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. 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%. $MDC = (4.65 * \sqrt{(BkgndCnt / BkgndCntMin) / SCntMin} + 2.71 / SCntMin) * (ConvFct / (Eff * Yld * Abn * Vol) * IngrFct)$. 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 = $(S-D) / [\sqrt{TPUs^2 + TPUD^2}]$ 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.

3/16/2007 10:04:08 AM

STL Richland Report

Lab Code: STLRL

FormNbr: R FormatType: FEAD Version: 05 Rpt Nbr: 34549 File Name: h:\Reportdb\edd\FeadIV\Rad\W05092.Edd, h:\Reportdb\edd\FeadIV\Rad\34549.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:				
9JMV0M10	B1LNJ6		MW6-SBB-A1	S07-001	W05092					01/11/2007 10:05				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7022439	H-3	10028-17-8	8.76E+01	pCi/L	8.4E+00	1.8E+01		5.30E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	03/10/2007 19:29	I

Lab Sample Id:	Client Id:	Test User	Contract Nbr	SAF Nbr	Sdg Nbr:	QC Type:	Moisture/Solids%:	Distilled Volume	Sample On Date:	Collection Date:				
9JMV0P10	B1LNJ7		MW6-SBB-A1	S07-001	W05092					01/11/2007 08:00				
Batch	Analyte	CAS#	Result	Unit	CntU 2S	TotU 2S	Qual	MDA	TrcYield	Method	Alq Size	Unit	Analy Date/Time	Act
7022439	H-3	10028-17-8	1.02E+02	pCi/L	1.1E+01	2.1E+01		5.33E+00	100.0	TRITIUM_ELECT_L	1.50E-01	L	03/10/2007 23:04	I

Friday, March 16, 2007

STL Richland QC Blank Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05092.Edd, h:\Reportdb\edd\FeadIV\Rad\34549.Edd

Lab Sample Id: JM6571AB

Sdg/Rept Nbr: W05092 34549

Collection Date: 01/11/2007 10:05

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BLK

Received Date: 01/11/2007

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	Aliq Size/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7022439 BLK	H-3 10028-17-8	8.25E+00	pCi/L	6.3E+00 4.4E+00		5.35E+00	100.0		TRITIUM_ELE	1.5001E-01 L	03/10/2007 17:53				D

Friday, March 16, 2007

STL Richland QC Control Sample Report

Lab Code: STLR

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05092.Edd, h:\Reportdb\edd\FeadIV\Rad\34549.Edd

Lab Sample Id: JM6571CS

Sdg/Rept Nbr: W05092 34549

Collection Date: 01/11/2007 10:05

Client Id: NA

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: BS

Received Date: 01/11/2007

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/ L	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7022439 BS	H-3 10028-17-8	4.55E+02	pCi/L	8.0E+01 1.8E+01		5.36E+00	100.0	4.54E+02 100.3	TRITIUM_ELE	1.50E-01	03/10/2007 19:11			70 130	D

Friday, March 16, 2007

STL Richland QC Duplicate Report

Lab Code: STLRL

FormNbr: R

FormatType: FEAD

VersionNbr: 05

File Name: h:\Reportdb\edd\FeadIV\Rad\W05092.Edd, h:\Reportdb\edd\FeadIV\Rad\34549.Edd

Lab Sample Id: JMV0M1CR

Sdg/Rept Nbr: W05092 34549

Collection Date: 01/11/2007 10:05

Client Id: B1LNJ6

Matrix: WATER WATER

Sample On Date:

Moisture/Solids%*:

QC Type: DUP

Received Date: 01/11/2007

SAF Nbr	Contract Nbr	Test User	Case Nbr	SAS Nbr	Suffix	Decant	Distilled Volume	File Id	FSuffix	RTyp					
S07-001	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/	Date/Time Analyzed	RPD/ UCL	RER/ UCL	LCS LCL/UCL	R Typ
7022439 DUP	H-3 10028-17-8	9.54E+01 8.76E+01	pCi/L	2.0E+01 1.2E+01		5.34E+00	100.0		TRITIUM_ELE	1.50E-01 L	03/10/2007 21:46	8.5 20.0	0.5 3		D

Lot No., Due Date: J7A150170; 02/26/2007
Client, Site: 384868; PGW 615HANFORD HANFORD
QC Batch No., Method Test: 7022439; RH3EE H3EE by LSC
SDG, Matrix: W05092; WATER

1.0 COC

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 Pam Anderson

Date 3-14-07



STL

Data Review Checklist
RADIOCHEMISTRY
Second Level Review

QC Batch Number: 7022439
W05092

Review Item	Yes (✓)	No (✓)	N/A (✓)
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 with contract acceptance criteria?	✓		
7. Is the LCS Minimum Detectable Activity ≤ the Contract Detection Limit?	✓		
8. Do the MS/MSD results and yields meet acceptance criteria?			✓
9. Do the duplicate sample results and yields meet acceptance criteria?	✓		
C. Other			
1. Are all Nonconformances 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: Sheryl A Adams Date: 5-14-07

Collector E. PARCHEN	Contact/Requester Dot Stewart	Telephone No. 509-376-5056
SAF No. S07-001	Sampling Origin Hanford Site	Purchase Order/Charge Code
Project Title SURY JANUARY 2007	<i>HNF-K-506-4</i>	Ice Chest No. <i>442</i> Temp.
Shipped To (Lab) Severn Trent Incorporated, Richland	Method of Shipment Govt. Vehicle	Bill of Lading/Air Bill No.
Protocol SURY	Priority: 45 Days	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"/> All Labs except WSCF: Batch all PNNL samples submitted under A, G, I, S, and W 07 SAFs into one SDG, not to exceed SDG closure of 14 days. WSCF: Batch all PNNL GW samples submitted into one SDG, daily closure.
--	--

Sample No.	Lab ID	*	Date	Time	No/Type Container	Sample Analysis	Preservative
B1LNJ6		W	<i>11-4-7</i>	<i>1025</i>	1x20-mL P	Activity Scan	None
B1LNJ6		W	<i>11-4-7</i>	<i>1025</i>	3x1000-mL P	TRITIUM_ELECT_LSC_LL: H-3 (1)	None
<i>JMVOM</i>							

Relinquished By: E. PARCHEN (Signature) Date/Time: JAN 11 2007 1345	Received By: <i>E. Smith</i> (Signature) Date/Time: JAN 11 2007 1110	Matrix * S = Soil DS = Drum Solid SE = Sediment DI = Drum Liquid SO = Solid T = Tissue SL = Sludge WI = Wine W = Water L = Liquid O = Oil V = Vegetation A = Air X = Other
Relinquished By	Received By	
Relinquished By	Received By	
Relinquished By	Received By	
FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process)	Disposed By
		Date/Time



Sample Check-in List

Date/Time Received 1/11/07

Client: PNUL SDG # W05093 NA [] SAF # S07-001 NA []

Work Order Number: J7A150170 Chain of Custody # S07-001-273

Shipping Container ID: _____ Air Bill # _____

1. Custody Seals on shipping container intact? NA [] Yes No []
2. Custody Seals dated and signed? NA [] Yes No []
3. Chain of Custody record present? Yes No []
4. Cooler temperature: _____ NA Vermiculite/packing materials is NA Wet []
6. Number of samples in shipping container: 14 Bottles
7. Sample holding times exceeded? 2 samples NA [] Yes [] No []
8. Samples have:
 - _____ tape
 - _____ custody seals
 - _____ hazard labels
 - appropriate samples labels
9. Samples are:
 - in good condition
 - _____ broken
 - _____ leaking
 - _____ have air bubbles
 - (Only for samples requiring head space)
10. Sample pH taken? NA [] pH<2 [] pH>2 pH>9 []
11. Sample Location, Sample Collector Listed? * Yes [] No []
*For documentation only. No corrective action needed
12. Were any anomalies identified in sample receipt? Yes [] No []
13. Description of anomalies (include sample numbers): _____

Sample Custodian: A. Smith Date: 1/11/07 13:45

Client Sample ID	Analysis Requested	Condition	Comments/Sign

Client Informed on _____ by _____ Person contacted _____

[] No action necessary; process as is

Project Manager _____ Date _____

1/22/2007 3:42:14 PM

Sample Preparation/Analysis

Balance Id: 12424

384868, Pacific Northwest National Laboratory
Pacific Northwest National Lab

AS H-3 Prp/SepRC5024
U3 Enriched Tritium by Liquid Scint

Pipet #: _____

AnalyDueDate: 02/26/2007

005092

5I CLIENT: HANFORD

Sep1 DT/Tm Tech: *J-28-07pm*

Batch: 7022439 WATER pCi/L

PM, Quote: SA, 57671

Sep2 DT/Tm Tech: _____

SEQ Batch, Test: None

Prep Tech: _____



Work Order, Lot, Sample DateTime	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 JMVOM-1-AA								
J7A150170-1-SAMP								
01/11/2007 10:05		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:

2 JMVOM-1-AC-X								
J7A150170-1-DUP								
01/11/2007 10:05		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:

3 JMVOP-1-AA								
J7A150170-2-SAMP								
01/11/2007 08:00		AmtRec: 20ML,3XLP	#Containers: 4			Scr:	Alpha:	Beta:

4 JM657-1-AA-B								
J7A220000-439-BLK								
01/11/2007 10:05		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

5 JM657-1-AC-C								
J7A220000-439-LCS								
01/11/2007 10:05		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

6 JM657-1-AD-BN								
J7A220000-439-IBLK								
01/11/2007 10:05		AmtRec:	#Containers: 1			Scr:	Alpha:	Beta:

1/22/2007 3:42:20 PM

Sample Preparation/Analysis

Balance Id: 12474

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

Pipet #: _____

AnalyDueDate: 02/26/2007

Sep1 DT/Tm Tech: 728-070m

Batch: 7022439
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:
--------------------------------------	-------------------	-----------------------------	------------------------	-------------------	----------------	---------------------------------	--------------------------	-----------

Comments:

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

JMV0M1AA-SAMP Constituent List:

H-3	RDL:1.00E+01	pCi/L	LCL:70	UCL:130	RPD:20		
JM6571AA-BLK:							
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:		
JM6571AC-LCS:							
H-3	RDL:10	pCi/L	LCL:70	UCL:130	RPD:20		
JM6571AD-IBLK:							
H-3	RDL:1.00E+01	pCi/L	LCL:	UCL:	RPD:		
JMV0M1AA-SAMP Calc Info:							
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y ODRs: B
JM6571AA-BLK:							
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y ODRs: B
JM6571AC-LCS:							
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y ODRs: B
JM6571AD-IBLK:							
Uncert Level (#s):	2	Decay to SaDt:	Y	Blk Subt.:	N	Sci.Not.:	Y ODRs: B

Approved By _____ Date: _____

3/14/2007 8:14:18 AM

ICOC Fraction Transfer/Status Report

ByDate: 3/14/2006, 3/19/2007, Batch: '7022439', User: *ALL Order By DateTimeAccepting

Q Batch	Work Ord	CurStatus	Accepting	Comments
7022439				
AC	CalcC	McDowellID	2/28/2007 3:05:12 PM	
SC		wagarr	IsBatched 1/22/2007 3:46:15 PM	ICOC_RADCALC v4.8.26
SC		ICOC	IsRpt 2/26/2007 4:31:42 AM	ICOC_RADCALC v4.8.17
SC		McDowellID	InSep1 2/28/2007 3:05:12 PM	RICH-RC-5024 REVISION 2
SC		McDowellID	Sep1C 3/9/2007 11:56:59 AM	RICH-RC-5024 REVISION 2
SC		StringerR	InCnt1 3/9/2007 12:41:28 PM	RICH-RD-0001 REVISION 3
SC		DAWKINSO	InCnt1 3/9/2007 2:44:56 PM	RICH-RD-0001 REVISION 3
SC		BlackCL	CalcC 3/12/2007 7:37:23 AM	RICH-RD-0001 REVISION 3
AC		McDowellID	3/9/2007 11:56:59	
AC		StringerR	3/9/2007 12:41:28 PM	
AC		DAWKINSO	3/9/2007 2:44:56 PM	
AC		BlackCL	3/12/2007 7:37:23	

AC: Accepting Entry; SC: Status Change