

**From:** "Lavera, Ronald" <RLavera@entergy.com>  
**To:** <jjk@nrc.gov>  
**Date:** 06/07/2006 2:48:09 PM  
**Subject:** Sample Analysis Reports - Part 4 - Last Part

<<Entergy L28500 partial.pdf>> <<Entergy L28455 Partial.pdf>>  
<<Entergy L28183 Revised 05-24-06.pdf>> <<Entergy L28281 partial.pdf>>  
<<Entergy L28274.pdf>>

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Indian Point Energy Center  
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Buchanan, NY 10511-0308

D-4

**Mail Envelope Properties (44871E4D.FB3 : 24 : 36787)**

**Subject:** Sample Analysis Reports - Part 4 - Last Part  
**Creation Date** 06/07/2006 2:40:11 PM  
**From:** "Lavera, Ronald" <[RLavera@entergy.com](mailto:RLavera@entergy.com)>

**Created By:** [RLavera@entergy.com](mailto:RLavera@entergy.com)

**Recipients**

nrc.gov  
kp1\_po.KP\_DO  
JJK (James Kottan)

**Post Office**  
kp1\_po.KP\_DO

**Route**  
nrc.gov

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	501	06/07/2006 2:40:11 PM
TEXT.htm	1740	
Entergy L28500 partial.pdf	858933	
Entergy L28455 Partial.pdf	670806	
Entergy L28183 Revised 05-24-06.pdf		1468022
Entergy L28281 partial.pdf	1614309	
Entergy L28274.pdf	961514	
Mime.822	7633132	

**Options**

**Expiration Date:** None  
**Priority:** Standard  
**ReplyRequested:** No  
**Return Notification:** None

**Concealed Subject:** No  
**Security:** Standard

**Junk Mail Handling Evaluation Results**

Message is eligible for Junk Mail handling  
This message was not classified as Junk Mail

**Junk Mail settings when this message was delivered**

Junk Mail handling disabled by User  
Junk List is not enabled  
Junk Mail using personal address books is not enabled  
Block List is not enabled



**TELEDYNE  
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company  
2508 Quality Lane  
Knoxville, TN 37931-3133

Floyd Hood, Chem  
Entergy Nuclear Northeast  
Indian Point Energy Center  
295 Broadway - Suite 3, P.O. Box 308  
Buchanan NY 10511-0308

**PRELIMINARY**

**Report of Analysis/Certificate of Conformance**

05/23/2006

LIMS #: L28500

Project ID#: EN002-3P50IP3-04

Received: 05/03/2006

Delivery Date: 05/17/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

  
Keith Jeter  
Operations Manager

*Cross Reference Table*

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-083	L28500-1	HUDSON R. MH1
IP3-06-084	L28500-2	SHORESED MH1

# Report of Analysis

05/23/06 13:37

**L28500**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

**TELEDYNE**  
**BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Sample ID: IP3-06-083		Collect Start: 04/18/2006 13:30				Matrix: River Water				(WR)			
Station: HUDSON R. MHI		Collect Stop:				Volume:							
Description:		Receive Date: 05/03/2006				% Moisture:							
LIMS Number: L28500-1													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
TOTAL SR	2018	2.53E-01	4.62E-01	7.44E-01	pCi/L		450	ml	04/18/06 13:30	05/19/06	400	M	U
BE-7	2007	3.26E+00	3.09E+01	5.16E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
K-40	2007	4.35E+01	4.15E+01	8.28E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CR-51	2007	-7.46E+00	4.16E+01	6.66E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
MN-54	2007	3.20E+00	3.14E+00	5.56E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CO-57	2007	1.75E+00	2.47E+00	4.24E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CO-58	2007	-1.96E+00	3.68E+00	5.75E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
FE-59	2007	-3.97E-01	7.90E+00	1.30E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CO-60	2007	-4.76E-01	3.23E+00	5.28E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
ZN-65	2007	8.97E+00	6.86E+00	1.24E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
NB-94	2007	-2.05E+00	2.92E+00	4.59E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
NB-95	2007	-7.77E-02	3.51E+00	5.72E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
ZR-95	2007	-1.81E+00	6.16E+00	9.86E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
MO-99	2007	-7.79E+02	6.75E+03	1.10E+04	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
RU-103	2007	3.51E+00	4.10E+00	7.13E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
RU-106	2007	-4.56E+00	2.72E+01	4.36E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
AG-110M	2007	-1.52E+00	3.01E+00	4.82E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
SB-124	2007	-1.23E+01	5.20E+00	5.64E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
SB-125	2007	3.76E+00	8.16E+00	1.37E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
I-131	2007	-6.49E+00	1.80E+01	2.92E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CS-134	2007	7.81E-01	3.58E+00	5.01E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CS-137	2007	2.10E+00	3.07E+00	5.31E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
BA-140	2007	-5.01E+00	3.37E+01	5.49E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
LA-140	2007	3.71E+00	1.05E+01	1.80E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CE-141	2007	-1.29E+00	7.53E+00	1.06E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
CE-144	2007	2.98E+00	2.20E+01	3.18E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
EU-154	2007	2.93E+00	4.98E+00	8.52E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U
RA-226	2007	1.43E+00	6.38E+01	1.07E+02	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

# Report of Analysis

05/23/06 13:37

**L28500**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-083		Collect Start: 04/18/2006 13:30		Matrix: River Water		(WR)	
Station: HUDSON R. MH1		Collect Stop:		Volume:			
Description:		Receive Date: 05/03/2006		% Moisture:			
LIMS Number: L28500-1							

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
TH-228	2007	1.15E-01	5.23E+00	8.98E+00	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U No
TH-232	2007	2.44E+00	1.07E+01	1.87E+01	pCi/L		3181.33	ml	04/18/06 13:30	05/11/06	9354	Sec	U No

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 13:37

**L28500**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

**TELEDYNE**  
**BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Sample ID: IP3-06-084		Collect Start: 04/18/2006 13:30				Matrix: Soil		(S)						
Station: SHORESED MH1		Collect Stop:				Volume:								
Description:		Receive Date: 05/03/2006				% Moisture: 3.62								
LIMS Number: L28500-2														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
TOTAL SR	2018	-4.35E-03	5.11E-02	8.44E-02	pCi/g		5.0717	g dry	04/18/06 13:30	05/19/06	400	M	U	
BE-7	2007	3.37E-01	3.50E-01	6.08E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
K-40	2007	8.39E+00	9.90E-01	4.77E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	+	Yes
CR-51	2007	6.46E-02	4.47E-01	7.46E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
MN-54	2007	2.18E-02	3.45E-02	6.05E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CO-57	2007	4.94E-03	2.61E-02	4.39E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CO-58	2007	2.32E-02	4.23E-02	7.36E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
FE-59	2007	2.16E-03	9.77E-02	1.60E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CO-60	2007	-1.81E-02	3.64E-02	5.59E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
ZN-65	2007	6.98E-02	8.93E-02	1.56E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
NB-94	2007	1.66E-02	3.33E-02	5.66E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
NB-95	2007	-5.04E-03	4.01E-02	6.42E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
ZR-95	2007	1.26E-02	7.55E-02	1.25E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
MO-99	2007	5.32E+01	1.14E+02	1.93E+02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
RU-103	2007	-2.05E-03	4.32E-02	7.17E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
RU-106	2007	9.80E-02	3.04E-01	5.13E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
AG-110M	2007	-1.12E-03	3.35E-02	5.48E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
SB-124	2007	4.29E-03	4.86E-02	6.84E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
SB-125	2007	6.46E-02	9.49E-02	1.62E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
I-131	2007	4.43E-02	2.35E-01	3.92E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CS-134	2007	4.25E-02	4.27E-02	6.55E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CS-137	2007	-3.81E-03	3.32E-02	5.38E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
BA-140	2007	3.29E-02	3.81E-01	6.35E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
LA-140	2007	-5.16E-02	1.13E-01	1.72E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CE-141	2007	-3.57E-02	6.96E-02	1.13E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
CE-144	2007	-7.76E-02	1.99E-01	3.25E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
EU-154	2007	3.78E-04	5.21E-02	8.70E-02	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No
RA-226	2007	4.64E-01	6.64E-01	1.14E+00	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U	No

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 13:37

**L28500**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-084				Collect Start: 04/18/2006 13:30				Matrix: Soil				(S)	
Station: SHORESED MH1				Collect Stop:				Volume:					
Description:				Receive Date: 05/03/2006				% Moisture: 3.62					
LIMS Number: L28500-2													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
TH-228	2007	1.29E-01	6.12E-02	1.09E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U* No
TH-232	2007	1.83E-01	1.17E-01	2.08E-01	pCi/g Dry		375.9	g dry	04/18/06 13:30	05/12/06	6000	Sec	U Yes

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

05/08/06 13:56

Teledyne Brown Engineering  
Sample Receipt Verification/Variance Report

SR #: SR08193

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28500

Initiated By: PMARSHALL

Init Date: 05/05/06 Receive Date: 05/03/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition		Y		
4 Chain of custody received with samples		Y		
5 All samples listed on chain of custody received		Y		
6 Sample container labels present and legible.		Y		
7 Information on container labels correspond with chain of custody		Y		
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			N	

Samples are designated as environmental for LLD purposes only. Samples were accompanied by rad paperwork.



**Entergy Nuclear Operations, Inc.**  
Sample Collection/Receipt Sheet

L28500 p.8c

[illegible]

Shipped by:

Received by:

\_\_\_\_\_

# IP3

**Count to Envirmental LLDs;  
Count H3 to 200 pCi/L**

### Rush sample results



**TELEDYNE  
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company

2508 Quality Lane  
Knoxville, TN 37931-3133

Floyd Hood, Chem  
Entergy Nuclear Northeast  
Indian Point Energy Center  
295 Broadway - Suite 3, P.O. Box 308  
Buchanan NY 10511-0308

# PRELIMINARY

## Report of Analysis/Certificate of Conformance

05/17/2006

LIMS #: L28455

Project ID#: EN002-3P50IP3-04

Received: 05/01/2006

Delivery Date: 05/08/2006

P.O. #: 4500539361

Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

  
\_\_\_\_\_  
Keith Jeter  
Operations Manager

*Cross Reference Table*

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-085	L28455-1	MW-U3-4D

# Report of Analysis

05/17/06 13:03

**L28455**

Entergy Nuclear Northeast

EN002-3P50IP3-04

**TELEDYNE**  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-085					Collect Start: 04/26/2006 14:20					Matrix: Ground Water					(WG)				
Station: MW-U3-4D					Collect Stop:					Volume:									
Description:					Receive Date: 05/01/2006					% Moisture:									
LIMS Number: L28455-1																			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values						
H-3	2010	5.75E+02	1.46E+02	1.87E+02	pCi/L		10	ml		05/09/06	60	M	+						
TOTAL SR	2018	-1.10E-01	4.68E-01	7.78E-01	pCi/L		450	ml	04/26/06 14:20	05/17/06	400	M	U						
BE-7	2007	1.99E+01	4.91E+01	8.36E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
K-40	2007	3.22E+01	5.88E+01	7.31E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		Yes				
CR-51	2007	-4.43E+01	5.68E+01	8.60E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
MN-54	2007	1.45E+00	4.64E+00	8.02E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CO-57	2007	4.88E-01	4.72E+00	7.88E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CO-58	2007	-2.59E+00	5.81E+00	9.06E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
FE-59	2007	-3.12E+00	1.14E+01	1.80E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CO-60	2007	-3.10E+00	5.47E+00	8.71E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
ZN-65	2007	1.59E+01	1.29E+01	2.27E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
NB-94	2007	2.83E+00	4.89E+00	8.56E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
NB-95	2007	2.46E+00	5.64E+00	9.68E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
ZR-95	2007	-6.47E+00	1.08E+01	1.62E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
MO-99	2007	-2.96E+02	7.35E+02	1.13E+03	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
RU-103	2007	2.84E+00	5.99E+00	1.03E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
RU-106	2007	2.96E+01	4.43E+01	7.82E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
AG-110M	2007	8.85E-01	5.30E+00	8.87E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
SB-124	2007	-8.14E+00	7.67E+00	8.95E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
SB-125	2007	-4.78E+00	1.52E+01	2.43E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
I-131	2007	-2.96E+00	1.51E+01	2.48E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CS-134	2007	1.80E+00	6.99E+00	1.01E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CS-137	2007	-3.01E-01	5.58E+00	9.11E+00	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
BA-140	2007	8.06E+00	3.08E+01	5.15E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
LA-140	2007	8.57E-01	1.19E+01	1.97E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CE-141	2007	-5.55E+00	1.07E+01	1.70E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
CE-144	2007	-6.22E+00	3.72E+01	6.08E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				
EU-154	2007	-4.13E+00	9.69E+00	1.57E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U		No				

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
+ = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
High = Activity concentration exceeds customer reporting value  
Spec = MDC exceeds customer technical specification  
L = Low recovery  
H = High recovery

No = Peak not identified in gamma spectrum  
Yes = Peak identified in gamma spectrum  
\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

**Bolded text indicates reportable value.**

# Report of Analysis

05/17/06 13:03

**L28455**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Sample ID: IP3-06-085			Collect Start: 04/26/2006 14:20			Matrix: Ground Water			(WG)				
Station: MW-U3-4D			Collect Stop:			Volume:							
Description:			Receive Date: 05/01/2006			% Moisture:							
LIMS Number: L28455-1													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
RA-226	2007	-4.27E+01	1.27E+02	2.06E+02	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U No
TH-228	2007	-8.73E+00	1.18E+01	1.65E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U No
TH-232	2007	9.10E+00	2.09E+01	3.80E+01	pCi/L		3584.48	ml	04/26/06 14:20	05/08/06	3600	Sec	U No
Comment: 1 Count to Enviromental LLDs; RUSH													

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

05/02/06 08:55

Teledyne Brown Engineering  
Sample Receipt Verification/Variance Report

SR #: SR08118

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04

LIMS #: L28455

Initiated By: PMARSHALL

Init Date: 05/01/06      Receive Date: 05/01/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria

Yes No NA      Comment

1 Shipping container custody seals present and intact.      NA

2 Sample container custody seals present and intact.      NA

3 Sample containers received in good condition      Y

4 Chain of custody received with samples      Y

5 All samples listed on chain of custody received      Y

6 Sample container labels present and legible.      Y

7 Information on container labels correspond with chain of custody      Y

8 Sample(s) properly preserved and in appropriate container(s)      NA

9 Other (Describe)      NA

Indian Point Energy Center

**Entergy Nuclear Operations, Inc.**  
Sample Collection/Receipt Sheet

L28455  
P-8C1

unit yr id# format (IPX-XX-XXX)Teledyne Sample #	Sample ID	Sample Type	Start date	Start time	Stop date	Stop time	Volume or Area	Analysis	Comments	Sample Size Units	Plant Code
IP3-06-085	MW-U3-4D	WG	26-Apr-06	14:20			1.000E+00	SR-90, H-3, GELI, SR-FAST	Count to Enviromental LLDs; RUSH	GAL	EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04

Collected by:

Shipped by:

Received by: *Pat Marshall* 5/1/06

Count to Envirmental LLDs;  
Count H3 to 200 pCi/L

**IP3**

Rush sample results



**TELEDYNE  
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company  
2508 Quality Lane  
Knoxville, TN 37931-3133

L28183 Revised 05-24-06

Floyd Hood, Chem  
Entergy Nuclear Northeast  
Indian Point Energy Center  
295 Broadway - Suite 3, P.O. Box 308  
Buchanan NY 10511-0308

**REVISED**  
5-24-06

### Report of Analysis/Certificate of Conformance

05/23/2006

LIMS #: L28183

Project ID#: EN002-3P50IP3-04

Received: 03/31/2006

Delivery Date: 04/14/2006

P.O. #: 4500539361

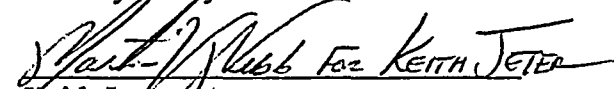
Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.

  
Keith Jeter  
Operations Manager

*Cross Reference Table*

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-047	L28183-1	MW-42 78FT
IP3-06-048	L28183-2	MW-42 49FT
IP3-06-049	L28183-3	MW-36 26FT
IP3-06-050	L28183-4	MW-36A 41FT
IP3-06-051	L28183-5	MW-36B 52FT

# Report of Analysis

05/23/06 10:19

**REVISED**  
5-24-06

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-047					Collect Start: 03/24/2006 09:45					Matrix: Ground Water					(WG)		
Station: MW-42 78FT					Collect Stop:					Volume:							
Description:					Receive Date: 03/31/2006					% Moisture:							
LIMS Number: L28183-1																	
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values				
H-3	2010	1.28E+03	3.91E+02	5.75E+02	pCi/L		2	ml		04/11/06	120	M	+				
NI-59	2013	-1.17E+02	3.40E+01	5.30E+01	pCi/L		100	ml	03/24/06 09:45	05/17/06	45000		U		No		
SR-90	2019	3.09E-01	2.60E-01	4.08E-01	pCi/L		450	ml	03/24/06 09:45	04/11/06	800	M	U				
BE-7	2007	6.73E+00	2.30E+02	3.75E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
K-40	2007	2.31E+02	1.66E+02	1.86E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		Yes		
CR-51	2007	-1.38E+01	1.95E+02	3.17E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
MN-54	2007	3.47E+00	1.12E+01	1.89E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CO-57	2007	7.65E+00	1.21E+01	2.06E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CO-58	2007	1.59E+00	1.11E+01	1.85E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
FE-59	2007	2.82E+01	2.49E+01	4.52E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CO-60	2007	1.08E+01	1.14E+01	2.08E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
ZN-65	2007	5.81E+01	2.91E+01	5.05E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U*		No		
NB-94	2007	-3.53E+00	9.15E+00	1.44E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
NB-95	2007	3.42E+00	1.11E+01	1.88E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
ZR-95	2007	-3.59E+00	1.89E+01	3.09E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
MO-99	2007	-7.03E+02	1.58E+03	2.53E+03	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
RU-103	2007	3.71E+00	2.59E+01	4.23E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
RU-106	2007	-1.12E+02	1.42E+02	2.24E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
AG-110M	2007	4.06E+03	8.28E+01	1.90E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U*		No		
SB-124	2007	-9.81E+00	1.95E+01	2.62E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
SB-125	2007	2.38E+01	6.71E+01	1.12E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
I-131	2007	-5.78E+01	5.46E+01	8.81E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CS-134	2007	2.53E+01	1.89E+01	2.87E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CS-137	2007	4.46E+03	9.07E+01	2.22E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	+		Yes		
BA-140	2007	1.91E+01	1.22E+02	2.03E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
LA-140	2007	3.16E+00	2.28E+01	3.85E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CE-141	2007	3.84E+00	2.68E+01	4.44E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		
CE-144	2007	-2.49E+01	9.47E+01	1.56E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U		No		

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration



## Report of Analysis

05/23/06 10:19



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

**REVISED**  
**5-24-06**

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-047		Collect Start: 03/24/2006 09:45				Matrix: Ground Water				(WG)				
Station: MW-42 78FT		Collect Stop:				Volume:								
Description:		Receive Date: 03/31/2006				% Moisture:								
LIMS Number: L28183-1														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
EU-154	2007	6.08E+00	2.50E+01	4.19E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U	No
RA-226	2007	2.87E+02	3.76E+02	6.36E+02	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U	No
TH-228	2007	6.10E+00	2.79E+01	4.63E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U	Yes
TH-232	2007	5.83E+01	5.15E+01	7.74E+01	pCi/L		971.54	ml	03/24/06 09:45	04/05/06	6000	Sec	U	No
AM-241 (AS)	2001	4.05E-03	4.77E-02	9.06E-02	pCi/L		200	ml		04/07/06	59648	sec	U	
CM-242 (AS)	2001	5.40E-02	6.01E-02	4.01E-02	pCi/L		200	ml		04/07/06	59648	sec	U	
CM-243/244 (AS)	2001	2.42E-02	4.27E-02	4.01E-02	pCi/L		200	ml		04/07/06	59648	sec	U	
NP-237 (AS)	2001	-2.25E-02	2.62E-02	1.03E-01	pCi/L		200	ml		04/07/06	60006	sec	U	
PU-238 (AS)	2001	-2.38E-02	2.40E-02	9.41E-02	pCi/L		200	ml		04/10/06	60000	sec	U	
PU-239/240 (AS)	2001	2.17E-02	6.51E-02	1.05E-01	pCi/L		200	ml		04/10/06	60000	sec	U	
PU-241	2001	8.68E+00	7.70E+00	1.22E+01	pCi/L		200	ml		04/13/06	100	M	U	
PU-242 (AS)	2001	2.24E-02	5.14E-02	6.65E-02	pCi/L		200	ml		04/10/06	60000	sec	U	
U-233/234 (AS)	2001	1.63E+00	2.99E-01	7.83E-02	pCi/L		200	ml		04/06/06	60003	sec	+	
U-235 (AS)	2001	1.01E-01	7.65E-02	2.12E-02	pCi/L		200	ml		04/06/06	60003	sec	U	
U-238 (AS)	2001	1.42E+00	2.78E-01	9.59E-02	pCi/L		200	ml		04/06/06	60003	sec	+	
Comment: 1 Ni-59 added per client request May 10.														

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 10:19

L28183

Entergy Nuclear Northeast

EN002-3P50IP3-04

**REVISED**  
5-29-06

Floyd Hood, Chem

Sample ID: IP3-06-048		Collect Start: 03/23/2006 11:15				Matrix: Ground Water				(WG)					
Station: MW-42 49FT		Collect Stop:				Volume:									
Description:		Receive Date: 03/31/2006				% Moisture:									
LIMS Number: L28183-2															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	2.63E+03	4.40E+02	5.89E+02	pCi/L		2	ml		04/11/06	120	M	+		
NI-59	2013	1.39E+02	5.54E+01	8.68E+01	pCi/L		100	ml	03/23/06 11:15	05/17/06	45000		U*		No
SR-90	2019	5.19E+01	1.15E+00	4.88E-01	pCi/L		450	ml	03/23/06 11:15	04/11/06	800	M	+		
BE-7	2007	1.25E+03	1.26E+03	2.10E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
K-40	2007	2.56E+01	1.56E+02	2.14E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		Yes
CR-51	2007	-1.08E+03	1.07E+03	1.75E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
MN-54	2007	-2.70E+00	1.60E+01	2.60E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CO-57	2007	1.41E+01	6.85E+01	1.14E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CO-58	2007	-2.76E+00	1.71E+01	2.79E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
FE-59	2007	-2.22E+01	3.68E+01	5.79E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CO-60	2007	1.94E+02	1.85E+01	2.32E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	+		Yes
ZN-65	2007	5.87E+01	3.43E+01	6.41E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
NB-94	2007	-2.21E+00	1.59E+01	2.56E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
NB-95	2007	1.89E+01	1.80E+01	3.17E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
ZR-95	2007	-1.26E+01	3.14E+01	5.07E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
MO-99	2007	9.44E+02	3.24E+03	5.46E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
RU-103	2007	-3.95E+01	1.31E+02	2.17E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
RU-106	2007	-2.05E+02	6.93E+02	1.13E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
AG-110M	2007	9.14E+04	4.33E+02	9.91E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U*		No
SB-124	2007	-3.18E+01	8.10E+01	1.32E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
SB-125	2007	-1.82E+02	3.66E+02	5.93E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
I-131	2007	-5.94E+01	3.26E+02	5.33E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CS-134	2007	9.25E+01	7.03E+01	1.17E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CS-137	2007	1.02E+05	4.76E+02	1.00E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	+		Yes
BA-140	2007	-2.66E+02	6.42E+02	1.06E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
LA-140	2007	-5.88E+00	2.61E+01	4.15E+01	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CE-141	2007	5.06E+01	1.48E+02	2.45E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No
CE-144	2007	-2.06E+02	5.27E+02	8.70E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U		No

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 10:19

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

REVISED  
5-24-06

Sample ID: IP3-06-048		Collect Start: 03/23/2006 11:15				Matrix: Ground Water				(WG)				
Station: MW-42 49FT		Collect Stop:				Volume:								
Description:		Receive Date: 03/31/2006				% Moisture:								
LIMS Number: L28183-2														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
EU-154	2007	9.32E+01	1.40E+02	2.34E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U	No
RA-226	2007	3.59E+03	1.94E+03	3.21E+03	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U*	No
TH-228	2007	-2.10E+01	1.55E+02	2.50E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U	No
TH-232	2007	5.93E+01	6.35E+01	1.12E+02	pCi/L		920	ml	03/23/06 11:15	04/05/06	6000	Sec	U	No
AM-241 (AS)	2001	2.44E-02	7.43E-02	9.63E-02	pCi/L		200	ml		04/07/06	28189	sec	U	
CM-242 (AS)	2001	1.08E-01	1.26E-01	5.28E-02	pCi/L		200	ml		04/07/06	28189	sec	U	
CM-243/244 (AS)	2001	3.00E-02	7.27E-02	6.75E-02	pCi/L		200	ml		04/07/06	28189	sec	U	
NP-237 (AS)	2001	1.28E-02	4.17E-02	5.40E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-238 (AS)	2001	8.94E-02	9.16E-02	8.58E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-239/240 (AS)	2001	1.73E-02	5.55E-02	8.58E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-241	2001	8.09E+00	6.51E+00	1.03E+01	pCi/L		200	ml		04/13/06	100	M	U	
PU-242 (AS)	2001	5.41E-02	6.28E-02	2.66E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
U-233/234 (AS)	2001	2.61E+00	4.45E-01	8.22E-02	pCi/L		200	ml		04/06/06	60003	sec	+	
U-235 (AS)	2001	5.48E-02	7.74E-02	8.80E-02	pCi/L		200	ml		04/06/06	60003	sec	U	
U-238 (AS)	2001	2.06E+00	3.87E-01	8.22E-02	pCi/L		200	ml		04/06/06	60003	sec	+	
Comment: 1 Ni-59 added per client request May 10.														

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 10:19

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

**REVISED**  
5-24-06

Floyd Hood, Chem

Sample ID: IP3-06-049		Collect Start: 03/23/2006 16:00				Matrix: Ground Water				(WG)				
Station: MW-36 26FT		Collect Stop:				Volume:								
Description:		Receive Date: 03/31/2006				% Moisture:								
LIMS Number: L28183-3														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
H-3	2010	3.42E+04	2.54E+03	1.86E+03	pCi/L		2	ml		04/11/06	20	M	+	
NI-63	2013	6.41E+01	1.06E+01	1.53E+01	pCi/L		100	ml		05/19/06	100	M	+	
SR-90	2019	9.99E-01	4.28E-01	6.42E-01	pCi/L		450	ml	03/23/06 16:00	04/11/06	800	M	+	
BE-7	2007	1.79E+01	5.89E+01	9.82E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
K-40	2007	2.21E+01	9.17E+01	9.68E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	Yes
CR-51	2007	-2.69E+01	7.39E+01	1.18E+02	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
MN-54	2007	4.44E+00	6.33E+00	1.10E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CO-57	2007	-2.22E+00	4.42E+00	7.19E+00	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CO-58	2007	-2.61E+00	6.76E+00	1.09E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
FE-59	2007	-1.68E+00	1.41E+01	2.30E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CO-60	2007	5.02E+00	6.22E+00	1.22E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	Yes
ZN-65	2007	1.03E+01	1.37E+01	2.41E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
NB-94	2007	2.67E-01	6.17E+00	1.01E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
NB-95	2007	1.49E+00	7.48E+00	1.23E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
ZR-95	2007	6.27E-01	1.33E+01	2.17E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
MO-99	2007	7.12E+02	5.52E+03	9.07E+03	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
RU-103	2007	1.26E+00	7.69E+00	1.27E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
RU-106	2007	8.02E+00	5.78E+01	9.62E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
AG-110M	2007	1.26E+00	6.13E+00	1.02E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
SB-124	2007	1.63E+01	1.19E+01	1.23E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
SB-125	2007	6.13E+00	1.58E+01	2.66E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
I-131	2007	-3.21E+00	2.71E+01	4.49E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CS-134	2007	9.91E+00	9.67E+00	1.20E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CS-137	2007	-3.86E+00	6.74E+00	1.05E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
BA-140	2007	-3.12E+01	5.57E+01	8.66E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
LA-140	2007	8.74E+00	1.83E+01	3.19E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CE-141	2007	-4.79E+00	1.36E+01	1.88E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
CE-144	2007	-3.61E+01	4.23E+01	5.71E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 10:19



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

**REVISED**  
**5-24-06**

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-049		Collect Start: 03/23/2006 16:00				Matrix: Ground Water				(WG)				
Station: MW-36 26FT		Collect Stop:				Volume:								
Description:		Receive Date: 03/31/2006				% Moisture:								
LIMS Number: L28183-3														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
EU-154	2007	2.16E+00	8.95E+00	1.50E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
RA-226	2007	4.77E+01	1.22E+02	2.03E+02	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	Yes
TH-228	2007	4.81E+00	1.07E+01	1.56E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	Yes
TH-232	2007	-8.88E+00	2.34E+01	3.84E+01	pCi/L		930.95	ml	03/23/06 16:00	04/11/06	12420	Sec	U	No
AM-241 (AS)	2001	6.17E-02	1.07E-01	1.53E-01	pCi/L		200	ml		04/07/06	27923	sec	U	
CM-242 (AS)	2001	6.91E-02	9.05E-02	6.79E-02	pCi/L		200	ml		04/07/06	27923	sec	U	
CM-243/244 (AS)	2001	4.30E-02	7.36E-02	6.79E-02	pCi/L		200	ml		04/07/06	27923	sec	U	
NP-237 (AS)	2001	4.91E-02	9.12E-02	1.41E-01	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-238 (AS)	2001	4.85E-02	1.04E-01	1.78E-01	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-239/240 (AS)	2001	9.58E-03	4.94E-02	8.61E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
PU-241	2001	1.23E+00	4.99E+00	8.16E+00	pCi/L		200	ml		04/13/06	100	M	U	
PU-242 (AS)	2001	-1.15E-02	3.97E-02	9.63E-02	pCi/L		200	ml		04/07/06	60005	sec	U	
U-233/234 (AS)	2001	9.22E-01	2.36E-01	1.55E-01	pCi/L		200	ml		04/06/06	60003	sec	+	
U-235 (AS)	2001	1.46E-02	4.69E-02	7.25E-02	pCi/L		200	ml		04/06/06	60003	sec	U	
U-238 (AS)	2001	1.00E+00	2.39E-01	1.12E-01	pCi/L		200	ml		04/06/06	60003	sec	+	
Comment: 1 Ni-63 added per client request May 10.														

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

05/23/06 10:19

**TELEDYNE**  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

**REVISED**  
**5-24-06**

**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-050		Collect Start: 03/24/2006 12:45				Matrix: Ground Water				(WG)					
Station: MW-36A 41FT		Collect Stop:				Volume:									
Description:		Receive Date: 03/31/2006				% Moisture:									
LIMS Number: L28183-4															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	5.52E+04	3.10E+03	1.86E+03	pCi/L		2	ml		04/11/06	20	M	+		
NI-63	2013	4.87E+01	1.10E+01	1.65E+01	pCi/L		100	ml		05/19/06	100	M	+		
SR-90	2019	3.48E+00	3.64E-01	4.16E-01	pCi/L		450	ml	03/24/06 12:45	04/11/06	800	M	+		
BE-7	2007	-3.81E+01	8.03E+01	1.29E+02	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
K-40	2007	7.41E+01	1.26E+02	2.50E+02	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CR-51	2007	-6.22E+01	9.10E+01	1.41E+02	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
MN-54	2007	-1.37E+00	8.82E+00	1.44E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CO-57	2007	-2.08E+00	6.76E+00	1.12E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CO-58	2007	6.90E-01	1.02E+01	1.66E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
FE-59	2007	-2.89E+00	2.00E+01	3.26E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CO-60	2007	2.98E+00	1.02E+01	1.74E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
ZN-65	2007	3.29E+01	2.45E+01	4.02E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
NB-94	2007	-2.04E+00	9.14E+00	1.48E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
NB-95	2007	1.10E+01	1.01E+01	1.80E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
ZR-95	2007	-3.52E+00	1.71E+01	2.74E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
MO-99	2007	8.23E+02	1.46E+03	2.51E+03	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
RU-103	2007	-5.63E+00	1.00E+01	1.59E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
RU-106	2007	1.14E+02	8.46E+01	1.52E+02	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
AG-110M	2007	-9.33E-01	8.24E+00	1.35E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
SB-124	2007	-1.12E+00	1.27E+01	1.72E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
SB-125	2007	9.03E+00	2.46E+01	4.10E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
I-131	2007	-1.63E+00	2.29E+01	3.77E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CS-134	2007	2.73E+01	1.33E+01	2.14E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U*		No
CS-137	2007	-5.91E+00	9.26E+00	1.45E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
BA-140	2007	-2.97E+01	5.76E+01	9.10E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
LA-140	2007	-1.10E+01	1.94E+01	2.96E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CE-141	2007	-6.66E+00	1.50E+01	2.43E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No
CE-144	2007	-4.31E+01	5.30E+01	8.47E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U		No

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected, Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.

## Report of Analysis

05/23/06 10:19


**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

**REVISED**  
5.24-06
**L28183**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-050					Collect Start: 03/24/2006 12:45					Matrix: Ground Water					(WG)	
Station: MW-36A 41FT					Collect Stop:					Volume:						
Description:					Receive Date: 03/31/2006					% Moisture:						
LIMS Number: L28183-4																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
EU-154	2007	8.76E-03	1.38E+01	2.31E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U	No		
RA-226	2007	4.51E+01	1.86E+02	3.17E+02	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U	No		
TH-228	2007	1.31E+01	1.54E+01	2.74E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U	No		
TH-232	2007	-1.39E+01	3.28E+01	5.47E+01	pCi/L		959.31	ml	03/24/06 12:45	04/05/06	6000	Sec	U	No		
AM-241 (AS)	2001	1.50E-02	4.54E-02	5.87E-02	pCi/L		200	ml		04/07/06	27923	sec	U	H		
CM-242 (AS)	2001	5.91E-02	7.74E-02	5.81E-02	pCi/L		200	ml		04/07/06	27923	sec	U	H		
CM-243/244 (AS)	2001	1.75E-01	1.25E-01	3.23E-02	pCi/L		200	ml		04/07/06	27923	sec	U	H		
NP-237 (AS)	2001	1.23E-02	6.34E-02	1.11E-01	pCi/L		200	ml		04/07/06	60005	sec	U			
PU-238 (AS)	2001	4.68E-02	9.96E-02	1.61E-01	pCi/L		200	ml		04/07/06	60005	sec	U			
PU-239/240 (AS)	2001	4.68E-02	9.96E-02	1.61E-01	pCi/L		200	ml		04/07/06	60005	sec	U			
PU-241	2001	2.41E+00	7.23E+00	1.18E+01	pCi/L		200	ml		04/13/06	100	M	U			
PU-242 (AS)	2001	5.66E-03	4.13E-02	7.19E-02	pCi/L		200	ml		04/07/06	60005	sec	U			
U-233/234 (AS)	2001	4.86E-01	1.63E-01	8.19E-02	pCi/L		200	ml		04/06/06	60003	sec	+			
U-235 (AS)	2001	2.49E-02	4.39E-02	4.14E-02	pCi/L		200	ml		04/06/06	60003	sec	U			
U-238 (AS)	2001	2.79E-01	1.28E-01	1.00E-01	pCi/L		200	ml		04/06/06	60003	sec	+			
Comment: 1 Ni-63 added per client request May 10.																

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

## Report of Analysis

05/23/06 10:19

L28183

Entergy Nuclear Northeast

EN002-3P50IP3-04



TELEDYNE  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

REVISED  
5-24-06

Floyd Hood, Chem

Sample ID: IP3-06-051						Collect Start: 03/24/2006 16:00				Matrix: Ground Water				(WG)	
Station: MW-36B 52FT						Collect Stop:				Volume:					
Description:						Receive Date: 03/31/2006				% Moisture:					
LIMS Number: L28183-5															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
H-3	2010	2.68E+04	2.31E+03	1.87E+03	pCi/L		2	ml		04/11/06	20	M	+		
NI-63	2013	1.18E+01	9.57E+00	1.54E+01	pCi/L		100	ml		05/19/06	100	M	U		
SR-90	2019	4.11E+00	3.77E-01	4.05E-01	pCi/L		450	ml	03/24/06 16:00	04/11/06	800	M	+		
BE-7	2007	-3.51E+00	5.72E+01	9.48E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
K-40	2007	7.65E+01	8.25E+01	1.65E+02	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CR-51	2007	-1.70E+01	7.01E+01	1.12E+02	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
MN-54	2007	2.44E+00	6.22E+00	1.06E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CO-57	2007	-2.95E+00	4.30E+00	7.03E+00	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CO-58	2007	-1.08E-01	6.80E+00	1.10E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
FE-59	2007	-1.48E+00	1.41E+01	2.30E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CO-60	2007	-2.47E+00	6.46E+00	1.03E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
ZN-65	2007	1.78E+01	1.67E+01	2.56E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
NB-94	2007	-5.18E+00	5.77E+00	9.02E+00	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
NB-95	2007	-4.41E+00	7.10E+00	1.12E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
ZR-95	2007	-1.03E+00	1.16E+01	1.89E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
MO-99	2007	1.00E+03	3.93E+03	6.55E+03	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
RU-103	2007	1.96E+00	7.52E+00	1.26E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
RU-106	2007	8.73E+00	5.72E+01	9.23E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
AG-110M	2007	-4.70E+00	5.75E+00	9.07E+00	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
SB-124	2007	-1.09E+01	8.92E+00	1.10E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
SB-125	2007	7.24E+00	1.55E+01	2.58E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
I-131	2007	-1.51E+01	2.43E+01	3.90E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CS-134	2007	1.76E+01	8.21E+00	1.28E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U*	No	
CS-137	2007	4.47E+00	6.04E+00	1.04E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
BA-140	2007	2.70E+01	4.98E+01	8.45E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
LA-140	2007	-7.49E+00	1.75E+01	2.77E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CE-141	2007	-3.86E+00	1.08E+01	1.76E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	
CE-144	2007	-2.18E+01	3.52E+01	5.74E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No	

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
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 L = Low recovery  
 H = High recovery

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis  
 unless otherwise noted

MDC - Minimum Detectable Concentration

Bolded text indicates reportable value.



# Report of Analysis

05/23/06 10:19

L28183

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE**  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

Floyd Hood, Chem

**REVISED**  
5-24-06

Sample ID: IP3-06-051		Collect Start: 03/24/2006 16:00				Matrix: Ground Water				(WG)				
Station: MW-36B 52FT		Collect Stop:				Volume:								
Description:		Receive Date: 03/31/2006				% Moisture:								
LIMS Number: L28183-5														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
EU-154	2007	-5.67E+00	8.80E+00	1.44E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No
RA-226	2007	3.73E+01	1.24E+02	2.10E+02	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No
TH-228	2007	1.18E+01	1.03E+01	1.81E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No
TH-232	2007	-1.24E+01	2.26E+01	3.71E+01	pCi/L		978.43	ml	03/24/06 16:00	04/11/06	12483	Sec	U	No
AM-241 (AS)	2001	3.14E-02	5.96E-02	8.53E-02	pCi/L		200	ml		04/07/06	60000	sec	U	
CM-242 (AS)	2001	2.29E-02	4.04E-02	3.78E-02	pCi/L		200	ml		04/07/06	60000	sec	U	
CM-243/244 (AS)	2001	2.75E-02	3.89E-02	2.03E-02	pCi/L		200	ml		04/07/06	60000	sec	U	
NP-237 (AS)	2001	9.24E-02	1.03E-01	1.10E-01	pCi/L		200	ml		04/07/06	60006	sec	U	
PU-238 (AS)	2001	4.08E-02	8.99E-02	1.43E-01	pCi/L		200	ml		04/07/06	60006	sec	U	
PU-239/240 (AS)	2001	-1.35E-02	4.66E-02	1.13E-01	pCi/L		200	ml		04/07/06	60006	sec	U	
PU-241	2001	9.90E+00	7.05E+00	1.10E+01	pCi/L		200	ml		04/13/06	100	M	U	
PU-242 (AS)	2001	-1.92E-02	2.22E-02	8.74E-02	pCi/L		200	ml		04/07/06	60006	sec	U	
U-233/234 (AS)	2001	2.11E+00	3.35E-01	7.94E-02	pCi/L		200	ml		04/06/06	60001	sec	+	
U-235 (AS)	2001	9.40E-02	7.84E-02	6.43E-02	pCi/L		200	ml		04/06/06	60001	sec	U	
U-238 (AS)	2001	1.43E+00	2.68E-01	5.20E-02	pCi/L		200	ml		04/06/06	60001	sec	+	
Comment: 1 Ni-63 added per client request May 10.														

## Flag Values

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Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration



**TELEDYNE  
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company  
2508 Quality Lane  
Knoxville, TN 37931-3133

Partial

Floyd Hood, Chem  
Entergy Nuclear Northeast  
Indian Point Energy Center  
295 Broadway - Suite 3, P.O. Box 308  
Buchanan NY 10511-0308

### Report of Analysis/Certificate of Conformance

04/26/2006

LIMS #: L28281

Project ID#: EN002-3P50IP3-04

Received: 04/12/2006

Delivery Date: 04/26/2006

P.O. #: 4500539361

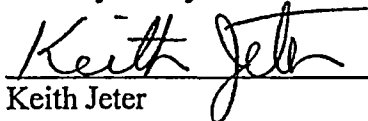
Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.



Keith Jeter  
Operations Manager

*Cross Reference Table*

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-069	L28281-1	MW-42 41 FT
IP3-06-070	L28281-2	MW-42 43 FT
IP3-06-071	L28281-3	MW-42 45.5 FT
IP3-06-072	L28281-4	MW-42 48 FT
IP3-06-073	L28281-5	MW-42 51 FT
IP3-06-074	L28281-6	MW-42 78 FT

## Report of Analysis

04/26/06 14:20



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

L28281

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-069		Collect Start: 04/07/2006 16:50				Matrix: Water				(WO)			
Station: MW-42 41 FT		Collect Stop:				Volume:							
Description: MW-42 41 FT		Receive Date: 04/12/2006				% Moisture:							
LIMS Number: L28281-1													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
C-14	032-82	1.71E+01	2.00E+01	3.40E+01	pCi/L		100	ml		04/21/06	69.31	M	U
FE-55	2006	-3.24E+02	1.12E+02	1.60E+02	pCi/L		200	ml	04/07/06 16:50	04/21/06	2700		U No
H-3	2010	2.88E+03	5.34E+02	7.35E+02	pCi/L		2	ml		04/22/06	100	M	+
NI-59	2013	1.24E+02	1.31E+02	2.20E+02	pCi/L		100	ml	04/07/06 16:50	04/19/06	6000		U No
NI-63	2013	3.19E+03	1.67E+02	6.73E+01	pCi/L		100	ml		04/21/06	4.09	M	+
SR-90	2019	9.59E+01	1.30E+00	3.86E-01	pCi/L		450	ml	04/07/06 16:50	04/26/06	800	M	+
TOTAL SR	2019	8.45E+01	1.71E+00	5.55E-01	pCi/L		450	ml	04/07/06 16:50	04/19/06	300	M	+
BE-7	2007	1.07E+02	7.15E+02	1.18E+03	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
K-40	2007	6.87E+01	1.26E+02	1.48E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U Yes
CR-51	2007	-5.42E+01	5.81E+02	9.50E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
MN-54	2007	2.07E+00	1.09E+01	1.80E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
CO-57	2007	-2.79E+00	3.90E+01	6.47E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
CO-58	2007	-7.37E+00	1.15E+01	1.78E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
FE-59	2007	4.38E+00	2.22E+01	3.71E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
CO-60	2007	5.62E+01	9.53E+00	1.65E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	+ Yes
ZN-65	2007	4.88E+01	2.81E+01	4.70E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U* No
NB-94	2007	-9.06E+00	1.12E+01	1.75E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
NB-95	2007	1.91E+00	1.09E+01	1.80E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
ZR-95	2007	-7.43E+00	1.94E+01	3.08E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
MO-99	2007	8.11E+01	9.36E+02	1.55E+03	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
RU-103	2007	-6.91E+01	7.36E+01	1.20E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
RU-106	2007	1.21E+02	4.11E+02	6.86E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
AG-110M	2007	4.21E+04	2.56E+02	5.86E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U* No
SB-124	2007	-1.87E+01	4.71E+01	7.59E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
SB-125	2007	1.15E+02	2.10E+02	3.49E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
I-131	2007	-3.21E+01	1.45E+02	2.35E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
CS-134	2007	3.07E+01	4.27E+01	7.00E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U No
CS-137	2007	4.89E+04	2.88E+02	6.74E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	+ Yes

## Flag Values

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 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
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 L = Low recovery  
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Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis  
 unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-069		Collect Start: 04/07/2006 16:50				Matrix: Water				(WO)				
Station: MW-42 41 FT		Collect Stop:				Volume:								
Description: MW-42 41 FT		Receive Date: 04/12/2006				% Moisture:								
LIMS Number: L28281-1														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
BA-140	2007	-2.29E+02	3.12E+02	5.06E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
LA-140	2007	5.69E+00	1.65E+01	2.87E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
CE-141	2007	-1.27E+01	8.19E+01	1.35E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
CE-144	2007	-2.27E+02	3.05E+02	5.01E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
EU-154	2007	-4.69E+00	8.07E+01	1.34E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
RA-226	2007	2.49E+03	1.15E+03	1.90E+03	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U*	No
TH-228	2007	-3.46E+01	9.06E+01	1.50E+02	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
TH-232	2007	1.88E+01	4.10E+01	7.18E+01	pCi/L		978.63	ml	04/07/06 16:50	04/17/06	7783	Sec	U	No
AM-241 (AS)	2001	1.23E-01	9.47E-02	1.10E-01	pCi/L		200	ml		04/21/06	60000	sec	U	
CM-242 (AS)	2001	5.16E-02	5.49E-02	4.63E-02	pCi/L		.2	l		04/21/06	60000	sec	U	
CM-243/244 (AS)	2001	2.70E-02	5.12E-02	7.32E-02	pCi/L		.2	l		04/21/06	60000	sec	U	
NP-237 (AS)	2001	-1.89E-02	7.54E-02	1.66E-01	pCi/L		.2	l		04/20/06	60003	sec	U	
PU-238 (AS)	2001	9.11E-02	7.37E-02	3.76E-02	pCi/L		200	ml		04/21/06	60000	sec	U	
PU-239/240 (AS)	2001	3.10E-02	5.88E-02	8.41E-02	pCi/L		200	ml		04/21/06	60000	sec	U	
PU-241	2001	2.27E+00	5.03E+00	8.16E+00	pCi/L		200	ml		04/26/06	100	M	U	
PU-242 (AS)	2001	.00E+00	.00E+00	2.02E-02	pCi/L		200	ml		04/21/06	60000	sec	U	
U-233/234 (AS)	2001	1.40E+00	2.97E-01	1.05E-01	pCi/L		.2	l		04/20/06	60003	sec	+	
U-235 (AS)	2001	6.11E-02	6.80E-02	4.59E-02	pCi/L		.2	l		04/20/06	60003	sec	U	
U-238 (AS)	2001	1.64E+00	3.23E-01	7.43E-02	pCi/L		.2	l		04/20/06	60003	sec	+	

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-070  
Station: MW-42 43 FT  
Description: MW-42 43 FT  
LIMS Number: L28281-2

Collect Start: 04/07/2006 15:47  
Collect Stop:  
Receive Date: 04/12/2006

Matrix: Water (WO)  
Volume:  
% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
C-14	032-82	-8.17E+00	1.23E+01	2.12E+01	pCi/L		100	ml		04/21/06	75.16	M	U
FE-55	2006	-3.25E+02	9.72E+01	1.40E+02	pCi/L		200	ml	04/07/06 15:47	04/21/06	3600		U No
H-3	2010	2.37E+03	5.20E+02	7.35E+02	pCi/L		2	ml		04/23/06	100	M	+
NI-59	2013	-1.65E+02	9.43E+01	1.44E+02	pCi/L		100	ml	04/07/06 15:47	04/19/06	6000		U No
NI-63	2013	3.60E+03	1.86E+02	7.04E+01	pCi/L		100	ml		04/21/06	3.69	M	+
SR-90	2019	9.35E+01	1.24E+00	3.67E-01	pCi/L		450	ml	04/07/06 15:47	04/26/06	800	M	+
TOTAL SR	2019	8.06E+01	1.66E+00	5.91E-01	pCi/L		450	ml	04/07/06 15:47	04/19/06	300	M	+
BE-7	2007	-5.35E+02	1.33E+03	2.16E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
K-40	2007	-3.35E+02	2.17E+02	3.76E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CR-51	2007	-2.06E+02	1.06E+03	1.72E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
MN-54	2007	-1.15E+01	2.11E+01	3.19E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CO-57	2007	-1.79E+01	6.64E+01	1.10E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CO-58	2007	-3.18E+00	2.21E+01	3.57E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
FE-59	2007	1.60E+01	4.84E+01	8.37E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CO-60	2007	4.02E+01	1.60E+01	2.71E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	+ Yes
ZN-65	2007	3.50E+01	4.49E+01	8.32E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
NB-94	2007	-1.19E+01	1.76E+01	2.55E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
NB-95	2007	-1.07E+00	2.33E+01	3.84E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
ZR-95	2007	-7.79E+00	4.15E+01	6.72E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
MO-99	2007	8.57E+02	1.83E+03	3.23E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
RU-103	2007	1.01E+02	1.36E+02	2.24E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
RU-106	2007	1.61E+02	7.04E+02	1.17E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
AG-110M	2007	4.40E+04	4.99E+02	1.15E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U* No
SB-124	2007	-2.88E+00	9.44E+01	1.31E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
SB-125	2007	9.89E+01	3.90E+02	6.44E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
I-131	2007	-1.64E+02	2.59E+02	4.26E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CS-134	2007	2.18E+01	8.68E+01	1.23E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U No
CS-137	2007	5.00E+04	5.62E+02	1.21E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	+ Yes

Flag Values  
 U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE**  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-070					Collect Start: 04/07/2006 15:47					Matrix: Water					(WO)				
Station: MW-42 43 FT					Collect Stop:					Volume:									
Description: MW-42 43 FT					Receive Date: 04/12/2006					% Moisture:									
LIMS Number: L28281-2																			
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values						
BA-140	2007	2.18E+02	5.64E+02	9.48E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
LA-140	2007	1.03E+01	3.98E+01	6.96E+01	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
CE-141	2007	-1.21E+02	1.42E+02	2.32E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
CE-144	2007	-3.71E+01	5.30E+02	8.79E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
EU-154	2007	-1.52E+01	1.38E+02	2.29E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
RA-226	2007	1.38E+03	2.08E+03	3.42E+03	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
TH-228	2007	5.90E+01	1.66E+02	2.77E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
TH-232	2007	2.74E+01	7.76E+01	1.40E+02	pCi/L		946.83	ml	04/07/06 15:47	04/17/06	1800	Sec	U	No					
AM-241 (AS)	2001	3.09E-02	5.02E-02	6.51E-02	pCi/L		200	ml		04/20/06	60000	sec	U						
CM-242 (AS)	2001	7.69E-03	2.49E-02	3.22E-02	pCi/L		.2	l		04/20/06	60000	sec	U						
CM-243/244 (AS)	2001	3.58E-03	2.61E-02	4.56E-02	pCi/L		.2	l		04/20/06	60000	sec	U						
NP-237 (AS)	2001	2.57E-03	9.58E-02	1.90E-01	pCi/L		.2	l		04/20/06	60005	sec	U						
PU-238 (AS)	2001	-6.03E-02	6.76E-02	1.86E-01	pCi/L		200	ml		04/20/06	60005	sec	U						
PU-239/240 (AS)	2001	-1.84E-02	4.46E-02	1.14E-01	pCi/L		200	ml		04/20/06	60005	sec	U						
PU-241	2001	-3.95E+00	4.85E+00	8.23E+00	pCi/L		200	ml		04/26/06	100	M	U						
PU-242 (AS)	2001	3.32E-02	6.23E-02	8.07E-02	pCi/L		200	ml		04/20/06	60005	sec	U						
U-233/234 (AS)	2001	1.42E+00	3.45E-01	1.71E-01	pCi/L		.2	l		04/20/06	60001	sec	+						
U-235 (AS)	2001	1.39E-02	4.52E-02	5.86E-02	pCi/L		.2	l		04/20/06	60001	sec	U						
U-238 (AS)	2001	1.53E+00	3.54E-01	1.25E-01	pCi/L		.2	l		04/20/06	60001	sec	+						

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-071

Station: MW-42 45.5 FT

Description: MW-42 45.5 FT

LIMS Number: L28281-3

Collect Start: 04/07/2006 15:00

Collect Stop:

Receive Date: 04/12/2006

Matrix: Water

(WO)

Volume:

% Moisture:

Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
C-14	032-82	5.11E+00	1.06E+01	1.79E+01	pCi/L		100	ml		04/21/06	73.88	M	U
FE-55	2006	-3.63E+02	1.12E+02	1.57E+02	pCi/L		200	ml	04/07/06 15:00	04/21/06	2700		U No
H-3	2010	2.51E+03	5.22E+02	7.32E+02	pCi/L		2	ml		04/23/06	100	M	+
NI-59	2013	1.44E+02	1.24E+02	2.09E+02	pCi/L		100	ml	04/07/06 15:00	04/19/06	6000		U No
NI-63	2013	4.73E+03	2.42E+02	8.06E+01	pCi/L		100	ml		04/21/06	2.87	M	+
SR-90	2019	1.10E+02	1.55E+00	4.40E-01	pCi/L		450	ml	04/07/06 15:00	04/26/06	800	M	+
TOTAL SR	2019	1.05E+02	2.12E+00	6.43E-01	pCi/L		450	ml	04/07/06 15:00	04/19/06	300	M	+
BE-7	2007	8.39E+02	1.45E+03	2.43E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
K-40	2007	-1.36E+02	2.55E+02	4.89E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CR-51	2007	-5.91E+02	1.22E+03	1.99E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
MN-54	2007	1.55E+01	2.03E+01	3.73E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CO-57	2007	-5.21E+01	8.80E+01	1.45E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CO-58	2007	8.79E+00	2.40E+01	4.16E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
FE-59	2007	1.49E+00	4.41E+01	7.35E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CO-60	2007	5.97E+01	2.58E+01	5.97E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U Yes
ZN-65	2007	7.25E+01	5.35E+01	1.05E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
NB-94	2007	-1.73E+00	2.05E+01	3.29E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
NB-95	2007	1.79E+01	2.42E+01	4.38E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
ZR-95	2007	-8.65E+00	3.60E+01	5.72E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
MO-99	2007	1.46E+03	1.88E+03	3.45E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
RU-103	2007	5.11E+01	1.49E+02	2.48E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
RU-106	2007	1.93E+02	8.42E+02	1.39E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
AG-110M	2007	3.86E+04	4.87E+02	1.11E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U* No
SB-124	2007	-6.42E+01	9.47E+01	1.52E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
SB-125	2007	-2.54E+02	4.46E+02	7.17E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
I-131	2007	-4.35E+01	2.96E+02	4.83E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CS-134	2007	-3.67E+00	8.51E+01	1.39E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U No
CS-137	2007	4.73E+04	5.63E+02	1.25E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	+ Yes

## Flag Values

U	=	Compound/Analyte not detected or less than 3 sigma
+	=	Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U*	=	Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High	=	Activity concentration exceeds customer reporting value
Spec	=	MDC exceeds customer technical specification
L	=	Low recovery
H	=	High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-071			Collect Start: 04/07/2006 15:00						Matrix: Water			(WO)			
Station: MW-42 45.5 FT			Collect Stop:						Volume:						
Description: MW-42 45.5 FT			Receive Date: 04/12/2006						% Moisture:						
LIMS Number: L28281-3															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
BA-140	2007	5.26E+02	6.41E+02	1.08E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
LA-140	2007	5.45E+00	2.61E+01	4.62E+01	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
CE-141	2007	4.95E+01	1.78E+02	2.94E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
CE-144	2007	6.77E+02	6.81E+02	1.14E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
EU-154	2007	4.47E+01	1.81E+02	3.02E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
RA-226	2007	2.90E+03	2.42E+03	4.03E+03	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
TH-228	2007	4.47E+01	1.96E+02	3.17E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
TH-232	2007	3.39E+01	8.19E+01	1.31E+02	pCi/L		1019.4	ml	04/07/06 15:00	04/17/06	1800	Sec	U	No	
AM-241 (AS)	2001	4.21E-02	5.47E-02	6.41E-02	pCi/L		200	ml		04/20/06	60000	sec	U		
CM-242 (AS)	2001	3.48E-02	4.03E-02	1.70E-02	pCi/L		.2	l		04/20/06	60000	sec	U		
CM-243/244 (AS)	2001	5.78E-02	5.18E-02	1.70E-02	pCi/L		.2	l		04/20/06	60000	sec	U		
NP-237 (AS)	2001	4.92E-02	6.72E-02	1.91E-01	pCi/L		.2	l		04/20/06	60001	sec	U		
PU-238 (AS)	2001	3.33E-02	9.36E-02	1.54E-01	pCi/L		200	ml		04/20/06	60001	sec	U		
PU-239/240 (AS)	2001	4.90E-02	7.68E-02	8.25E-02	pCi/L		200	ml		04/20/06	60001	sec	U		
PU-241	2001	3.14E+00	5.07E+00	8.16E+00	pCi/L		200	ml		04/26/06	100	M	U		
PU-242 (AS)	2001	2.21E-02	2.57E-02	1.01E-01	pCi/L		200	ml		04/20/06	60001	sec	U		
U-233/234 (AS)	2001	1.39E+00	2.58E-01	8.00E-02	pCi/L		.2	l		04/20/06	60004	sec	+		
U-235 (AS)	2001	2.49E-02	4.67E-02	6.05E-02	pCi/L		.2	l		04/20/06	60004	sec	U		
U-238 (AS)	2001	1.37E+00	2.56E-01	8.00E-02	pCi/L		.2	l		04/20/06	60004	sec	+		

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
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- H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum

Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration



# Report of Analysis

04/26/06 14:20



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-072		Collect Start: 04/07/2006 12:15				Matrix: Water				(WO)			
Station: MW-42 48 FT		Collect Stop:				Volume:							
Description: MW-42 48 FT		Receive Date: 04/12/2006				% Moisture:							
LIMS Number: L28281-4													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
C-14	032-82	9.24E-01	1.01E+01	1.70E+01	pCi/L		100	ml		04/21/06	78.14	M	U
FE-55	2006	-2.69E+02	1.12E+02	1.64E+02	pCi/L		200	ml	04/07/06 12:15	04/21/06	2700		U No
H-3	2010	3.98E+03	5.62E+02	7.30E+02	pCi/L		2	ml		04/23/06	100	M	+
NI-59	2013	-4.20E+00	9.28E+01	1.51E+02	pCi/L		100	ml	04/07/06 12:15	04/19/06	6000		U No
NI-63	2013	5.12E+03	2.61E+02	8.35E+01	pCi/L		100	ml		04/21/06	2.65	M	+
TOTAL SR(SOLUBLE)	2019	7.14E+01	1.59E+00	5.66E-01	pCi/L		450	ml	04/07/06 12:15	04/19/06	300	M	+
SR-90 (SOLUBLE)	2019	7.37E+01	1.07E+00	3.39E-01	pCi/L		450	ml	04/07/06 12:15	04/26/06	800	M	+
TOTAL SR(INSOLUBLE)	2019	-1.05E-01	6.29E-01	9.34E-01	pCi/L		450	ml	04/07/06 12:15	04/19/06	300	M	U
SR-90 (INSOLUBLE)	2019	9.42E-01	3.80E-01	5.70E-01	pCi/L		450	ml	04/07/06 12:15	04/26/06	800	M	+
BE-7	2007	-8.01E+02	1.72E+03	2.77E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
K-40	2007	5.62E+02	3.04E+02	6.71E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
CR-51	2007	8.17E+01	1.34E+03	2.22E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
MN-54	2007	1.94E+00	2.51E+01	4.22E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
CO-57	2007	8.24E+01	9.12E+01	1.54E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
CO-58	2007	-3.09E+01	2.69E+01	3.49E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
FE-59	2007	-4.25E+01	4.59E+01	5.38E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
CO-60	2007	5.36E+01	3.10E+01	6.72E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
ZN-65	2007	8.39E+01	6.44E+01	1.28E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
NB-94	2007	3.01E+01	2.36E+01	4.59E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
NB-95	2007	2.28E+00	2.87E+01	4.72E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
ZR-95	2007	2.13E+01	4.68E+01	8.20E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
MO-99	2007	5.33E+01	2.36E+03	3.85E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
RU-103	2007	-1.26E+02	1.70E+02	2.79E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
RU-106	2007	-2.46E+02	9.69E+02	1.58E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
AG-110M	2007	4.72E+04	6.19E+02	1.42E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U* No
SB-124	2007	6.54E+00	1.08E+02	1.79E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
SB-125	2007	-5.46E+02	5.05E+02	8.07E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No
I-131	2007	2.36E+01	3.41E+02	5.61E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U No

## Flag Values

U	=	Compound/Analyte not detected or less than 3 sigma
+	=	Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
U*	=	Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
High	=	Activity concentration exceeds customer reporting value
Spec	=	MDC exceeds customer technical specification
L	=	Low recovery
H	=	High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE**  
BROWN ENGINEERING, INC.  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-072		Collect Start: 04/07/2006 12:15				Matrix: Water				(WO)				
Station: MW-42 48 FT		Collect Stop:				Volume:								
Description: MW-42 48 FT		Receive Date: 04/12/2006				% Moisture:								
LIMS Number: L28281-4														
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
CS-134	2007	-6.03E+01	9.88E+01	1.59E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
CS-137	2007	5.31E+04	6.81E+02	1.46E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	+	Yes
BA-140	2007	2.11E+02	7.50E+02	1.25E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
LA-140	2007	2.18E+01	4.83E+01	8.94E+01	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
CE-141	2007	-2.08E+02	1.87E+02	3.03E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
CE-144	2007	-2.24E+02	7.02E+02	1.16E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
EU-154	2007	1.49E+02	1.88E+02	3.17E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
RA-226	2007	2.95E+03	2.63E+03	4.38E+03	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
TH-228	2007	-4.14E+01	2.13E+02	3.44E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
TH-232	2007	-6.37E+01	9.71E+01	1.46E+02	pCi/L		983.68	ml	04/07/06 12:15	04/17/06	1800	Sec	U	No
AM-241 (AS)	2001	2.19E-02	5.08E-02	7.47E-02	pCi/L		200	ml		04/20/06	60007	sec	U	
CM-242 (AS)	2001	7.64E-02	6.71E-02	3.70E-02	pCi/L		.2	l		04/20/06	60007	sec	U	
CM-243/244 (AS)	2001	-6.36E-03	5.52E-02	1.17E-01	pCi/L		.2	l		04/20/06	60007	sec	U	
NP-237 (AS)	2001	4.93E-02	8.10E-02	1.14E-01	pCi/L		.2	l		04/20/06	60000	sec	U	
PU-238 (AS)	2001	-5.04E-02	7.07E-02	1.81E-01	pCi/L		200	ml		04/20/06	60000	sec	U	
PU-239/240 (AS)	2001	2.50E-02	5.79E-02	8.51E-02	pCi/L		200	ml		04/20/06	60000	sec	U	
PU-241	2001	6.67E+00	5.28E+00	8.33E+00	pCi/L		200	ml		04/26/06	100	M	U	
PU-242 (AS)	2001	2.56E-02	4.52E-02	4.26E-02	pCi/L		200	ml		04/20/06	60000	sec	U	
U-233/234 (AS)	2001	1.48E+00	2.46E-01	7.19E-02	pCi/L		.2	l		04/20/06	60002	sec	+	
U-235 (AS)	2001	7.18E-02	5.78E-02	2.97E-02	pCi/L		.2	l		04/20/06	60002	sec	U	
U-238 (AS)	2001	1.41E+00	2.40E-01	8.65E-02	pCi/L		.2	l		04/20/06	60002	sec	+	

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

L28281

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-073		Collect Start: 04/07/2006 17:52				Matrix: Water				(WO)			
Station: MW-42 51 FT		Collect Stop:				Volume:							
Description: MW-42 51 FT		Receive Date: 04/12/2006				% Moisture:							
LIMS Number: L28281-5													
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values
C-14	032-82	4.53E+00	2.48E+01	4.16E+01	pCi/L		100	ml		04/21/06	78.71	M	U
FE-55	2006	-3.34E+02	7.54E+01	1.08E+02	pCi/L		200	ml	04/07/06 17:52	04/21/06	6000		U No
H-3	2010	2.51E+03	5.25E+02	7.37E+02	pCi/L		2	ml		04/23/06	100	M	+
NI-59	2013	1.91E+02	1.28E+02	2.18E+02	pCi/L		100	ml	04/07/06 17:52	04/19/06	6000		U No
NI-63	2013	2.22E+03	1.17E+02	5.84E+01	pCi/L		100	ml		04/21/06	6.5	M	+
TOTAL SR(SOLUBLE)	2019	8.21E+01	1.64E+00	4.97E-01	pCi/L		450	ml	04/07/06 17:52	04/19/06	300	M	+
SR-90 (SOLUBLE)	2019	1.09E+02	1.44E+00	4.09E-01	pCi/L		450	ml	04/07/06 17:52	04/26/06	800	M	+
TOTAL SR(INSOLUBLE)	2019	1.27E+00	5.77E-01	7.70E-01	pCi/L		450	ml	04/07/06 17:52	04/19/06	300	M	+
SR-90 (INSOLUBLE)	2019	1.89E+00	3.81E-01	5.17E-01	pCi/L		450	ml	04/07/06 17:52	04/26/06	800	M	+
BE-7	2007	2.35E+02	1.10E+03	1.80E+03	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
K-40	2007	1.05E+02	1.75E+02	3.62E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
CR-51	2007	3.92E+02	8.59E+02	1.40E+03	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
MN-54	2007	-3.33E-01	1.38E+01	2.26E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
CO-57	2007	2.84E+01	5.28E+01	8.85E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
CO-58	2007	-4.16E+00	1.45E+01	2.33E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
FE-59	2007	-2.52E+00	3.01E+01	4.91E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
CO-60	2007	8.81E+01	1.68E+01	1.97E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	+ Yes
ZN-65	2007	2.67E+01	3.22E+01	5.73E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
NB-94	2007	6.16E+00	1.20E+01	2.04E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
NB-95	2007	2.30E+01	1.50E+01	2.81E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
ZR-95	2007	-2.43E+01	2.57E+01	3.88E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
MO-99	2007	8.61E+01	1.07E+03	1.79E+03	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
RU-103	2007	-7.90E+01	1.11E+02	1.80E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
RU-106	2007	-7.72E+01	5.65E+02	9.27E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
AG-110M	2007	7.13E+04	4.16E+02	9.57E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U* No
SB-124	2007	-1.32E+02	6.39E+01	1.02E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
SB-125	2007	-5.84E+01	3.20E+02	5.26E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No
I-131	2007	-9.44E+01	2.09E+02	3.47E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U No

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- High = Activity concentration exceeds customer reporting value
- Spec = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-073			Collect Start: 04/07/2006 17:52						Matrix: Water			(WO)			
Station: MW-42 51 FT			Collect Stop:						Volume:						
Description: MW-42 51 FT			Receive Date: 04/12/2006						% Moisture:						
LIMS Number: L28281-5															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values		
CS-134	2007	-3.22E+01	5.74E+01	9.37E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
CS-137	2007	8.11E+04	4.72E+02	1.01E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	+	Yes	
BA-140	2007	-5.77E+01	4.57E+02	7.60E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
LA-140	2007	-4.17E+00	2.26E+01	3.62E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
CE-141	2007	-5.56E+00	1.11E+02	1.84E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
CE-144	2007	1.01E+02	4.17E+02	6.94E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
EU-154	2007	5.83E+01	1.09E+02	1.83E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
RA-226	2007	3.17E+03	1.68E+03	2.77E+03	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U*	No	
TH-228	2007	5.61E+01	1.31E+02	2.18E+02	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
TH-232	2007	3.33E+01	4.98E+01	9.05E+01	pCi/L		995.92	ml	04/07/06 17:52	04/17/06	3989	Sec	U	No	
AM-241 (AS)	2001	2.39E-02	4.53E-02	6.48E-02	pCi/L		200	ml		04/21/06	60000	sec	U		
CM-242 (AS)	2001	6.85E-03	2.22E-02	2.87E-02	pCi/L		.2	l		04/21/06	60000	sec	U		
CM-243/244 (AS)	2001	3.82E-02	4.25E-02	2.87E-02	pCi/L		.2	l		04/21/06	60000	sec	U		
NP-237 (AS)	2001	-1.54E-02	5.30E-02	1.29E-01	pCi/L		.2	l		04/20/06	60006	sec	U		
PU-238 (AS)	2001	-6.66E-03	1.34E-02	5.27E-02	pCi/L		200	ml		04/20/06	60006	sec	U		
PU-239/240 (AS)	2001	1.84E-02	5.90E-02	9.13E-02	pCi/L		200	ml		04/20/06	60006	sec	U		
PU-241	2001	-2.70E+00	4.86E+00	8.17E+00	pCi/L		200	ml		04/26/06	100	M	U		
PU-242 (AS)	2001	1.92E-02	3.85E-02	2.83E-02	pCi/L		200	ml		04/20/06	60006	sec	U		
U-233/234 (AS)	2001	2.01E+00	2.96E-01	7.00E-02	pCi/L		.2	l		04/20/06	60001	sec	+		
U-235 (AS)	2001	4.80E-02	5.11E-02	4.33E-02	pCi/L		.2	l		04/20/06	60001	sec	U		
U-238 (AS)	2001	1.57E+00	2.58E-01	6.55E-02	pCi/L		.2	l		04/20/06	60001	sec	+		

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 14:20

**L28281**

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-074		Collect Start: 04/07/2006 17:58				Matrix: Water				(WO)						
Station: MW-42 78 FT		Collect Stop:				Volume:										
Description: MW-42 78 FT		Receive Date: 04/12/2006				% Moisture:										
LIMS Number: L28281-6																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
C-14	032-82	2.50E+00	5.05E+00	8.48E+00	pCi/L		100	ml		04/22/06	76.63	M	U			
FE-55	2006	1.16E+02	8.40E+01	1.29E+02	pCi/L		200	ml	04/07/06 17:58	04/21/06	4269		U		No	
H-3	2010	7.92E+02	4.69E+02	7.30E+02	pCi/L		2	ml		04/23/06	100	M	+			
NI-59	2013	1.20E+02	8.96E+01	1.30E+02	pCi/L		100	ml	04/07/06 17:58	04/20/06	7232		U		No	
NI-63	2013	3.66E+01	9.27E+00	1.43E+01	pCi/L		100	ml		04/21/06	90.28	M	+			
SR-90	2019	1.03E-01	2.45E-01	3.98E-01	pCi/L		450	ml	04/07/06 17:58	04/26/06	800	M	U			
TOTAL SR	2019	1.44E-01	3.93E-01	5.70E-01	pCi/L		450	ml	04/07/06 17:58	04/19/06	300	M	U			
AM-241 (AS)	2001	2.42E-02	3.42E-02	3.90E-02	pCi/L		200	ml		04/20/06	60001	sec	U			
CM-242 (AS)	2001	2.66E-02	3.86E-02	4.98E-02	pCi/L		.2	l		04/20/06	60001	sec	U			
CM-243/244 (AS)	2001	1.84E-02	3.48E-02	4.98E-02	pCi/L		.2	l		04/20/06	60001	sec	U			
NP-237 (AS)	2001	-1.18E-02	6.54E-02	1.41E-01	pCi/L		.2	l		04/20/06	60007	sec	U			
PU-238 (AS)	2001	2.41E-02	5.47E-02	8.45E-02	pCi/L		200	ml		04/20/06	60007	sec	U			
PU-239/240 (AS)	2001	-5.25E-04	2.93E-02	5.98E-02	pCi/L		200	ml		04/20/06	60007	sec	U			
PU-241	2001	-9.74E-01	5.00E+00	8.29E+00	pCi/L		200	ml		04/26/06	100	M	U			
PU-242 (AS)	2001	-1.36E-02	3.30E-02	8.45E-02	pCi/L		200	ml		04/20/06	60007	sec	U			
U-233/234 (AS)	2001	1.77E+00	2.71E-01	5.38E-02	pCi/L		.2	l		04/20/06	60001	sec	+			
U-235 (AS)	2001	8.28E-02	6.18E-02	2.97E-02	pCi/L		.2	l		04/20/06	60001	sec	U			
U-238 (AS)	2001	1.69E+00	2.65E-01	8.67E-02	pCi/L		.2	l		04/20/06	60001	sec	+			

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified (gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

Bolded text indicates reportable value.

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration



**TELEDYNE  
BROWN ENGINEERING, INC.**

A Teledyne Technologies Company

2508 Quality Lane

Knoxville, TN 37931-3133

Floyd Hood, Chem  
Entergy Nuclear Northeast  
Indian Point Energy Center  
295 Broadway - Suite 3, P.O. Box 308  
Buchanan NY 10511-0308

**Report of Analysis/Certificate of Conformance**

04/26/2006

LIMS #: L28274

Project ID#: EN002-3P50IP3-04

Received: 04/12/2006

Delivery Date: 04/26/2006

P.O. #: 4500539361

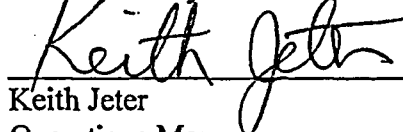
Release #:

SDG #:

This is to certify that Teledyne Brown Engineering - Environmental Services located at 2508 Quality Lane, Knoxville, Tennessee, 37931, has analyzed, tested and documented samples as specified in the applicable purchase order.

This also certifies that requirements of applicable codes, standards and specifications have been fully met and that any quality assurance documentation which verified conformance to the purchase order is on file and may be examined upon request.

I hereby certify that the above statements are true and correct.



Keith Jeter  
Operations Manager

*Cross Reference Table*

Client ID	Laboratory ID	Station ID(if applicable)
IP3-06-063	L28274-1	
IP3-06-064	L28274-2	
IP3-06-065	L28274-3	
IP3-06-066	L28274-4	
IP3-06-067	L28274-5	
IP3-06-068	L28274-6	

# Report of Analysis

04/26/06 13:04

**L28274**

Entergy Nuclear Northeast

EN002-3P50IP3-04

**TELEDYNE**  
**BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-063 Station: Description: LIMS Number: L28274-1						Collect Start: 04/05/2006 10:30 Collect Stop: Receive Date: 04/12/2006				Matrix: Water Volume: % Moisture:				(WO)
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
SR-90	2019	1.56E+00	3.24E-01	4.35E-01	pCi/L		500	ml	04/05/06 10:30	04/26/06	800	M	+	
TOTAL SR	2019	1.32E+00	5.28E-01	6.97E-01	pCi/L		500	ml	04/05/06 10:30	04/19/06	300	M	+	
Sample ID: IP3-06-064 Station: Description: LIMS Number: L28274-2						Collect Start: 04/05/2006 12:55 Collect Stop: Receive Date: 04/12/2006				Matrix: Water Volume: % Moisture:				(WO)
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
SR-90	2019	3.53E+00	4.16E-01	5.02E-01	pCi/L		500	ml	04/05/06 12:55	04/26/06	800	M	+	
TOTAL SR	2019	2.40E+00	6.09E-01	7.68E-01	pCi/L		500	ml	04/05/06 12:55	04/19/06	300	M	+	
Sample ID: IP3-06-065 Station: Description: LIMS Number: L28274-3						Collect Start: 04/05/2006 14:30 Collect Stop: Receive Date: 04/12/2006				Matrix: Water Volume: % Moisture:				(WO)
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values	
SR-90	2019	5.01E+00	4.82E-01	5.26E-01	pCi/L		500	ml	04/05/06 14:30	04/26/06	800	M	+	
TOTAL SR	2019	4.75E+00	6.70E-01	7.11E-01	pCi/L		500	ml	04/05/06 14:30	04/19/06	300	M	+	

## Flag Values

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- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

**Bolded text indicates reportable value.**

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 13:04

**L28274**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem

Sample ID: IP3-06-066					Collect Start: 04/04/2006 14:20					Matrix: Water					(WO)	
Station:					Collect Stop:					Volume:						
Description:					Receive Date: 04/12/2006					% Moisture:						
LIMS Number: L28274-4																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag	Values		
H-3	2010	2.14E+02	1.40E+02	2.19E+02	pCi/L		10	ml		04/24/06	100	M	U			
SR-90	2019	3.80E-01	4.30E-01	6.85E-01	pCi/L		450	ml	04/04/06 14:20	04/26/06	800	M	U			
TOTAL SR	2019	3.91E-01	6.61E-01	9.49E-01	pCi/L		450	ml	04/04/06 14:20	04/19/06	300	M	U			
BE-7	2007	6.40E+00	6.19E+01	1.01E+02	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
K-40	2007	9.58E+00	1.25E+02	1.09E+02	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	Yes		
CR-51	2007	-6.47E+01	6.99E+01	1.12E+02	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
MN-54	2007	3.97E-01	7.14E+00	1.18E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CO-57	2007	1.11E+00	4.47E+00	7.45E+00	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CO-58	2007	-2.64E+00	7.67E+00	1.26E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
FE-59	2007	2.70E+00	1.53E+01	2.56E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CO-60	2007	2.50E+00	7.53E+00	1.13E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	Yes		
ZN-65	2007	5.35E+01	1.91E+01	3.02E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U*	No		
NB-94	2007	2.54E+00	7.02E+00	1.16E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
NB-95	2007	8.95E+00	7.79E+00	1.31E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
ZR-95	2007	3.65E+00	1.36E+01	2.22E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
MO-99	2007	8.38E+02	1.35E+03	2.24E+03	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
RU-103	2007	-3.20E+00	7.80E+00	1.26E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
RU-106	2007	-1.13E+01	6.33E+01	1.04E+02	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
AG-110M	2007	1.31E+00	6.81E+00	1.12E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
SB-124	2007	-1.52E-01	9.28E+00	1.30E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
SB-125	2007	-4.37E+00	1.77E+01	2.89E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
I-131	2007	-3.63E+00	1.91E+01	3.17E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CS-134	2007	2.60E+01	8.91E+00	1.36E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U*	No		
CS-137	2007	7.23E+00	7.23E+00	1.22E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
BA-140	2007	1.69E-01	4.65E+01	7.53E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
LA-140	2007	2.96E+00	1.57E+01	2.59E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CE-141	2007	1.92E+00	1.04E+01	1.71E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		
CE-144	2007	-2.45E+01	3.53E+01	5.76E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No		

## Flag Values

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**Bolded text indicates reportable value.**

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- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration



# Report of Analysis

04/26/06 13:04

**L28274**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Sample ID: IP3-06-066						Collect Start: 04/04/2006 14:20				Matrix: Water				(WO)	
Station:						Collect Stop:				Volume:					
Description:						Receive Date: 04/12/2006				% Moisture:					
LIMS Number: L28274-4															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag	Values	
EU-154	2007	-2.22E+00	9.19E+00	1.52E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	No	
RA-226	2007	9.58E+00	1.59E+02	1.98E+02	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	Yes	
TH-228	2007	1.46E+01	1.09E+01	1.68E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	Yes	
TH-232	2007	1.31E+01	2.39E+01	4.66E+01	pCi/L		281.62	ml	04/04/06 14:20	04/17/06	78769	Sec	U	Yes	

## Flag Values

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Yes = Peak identified in gamma spectrum  
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MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 13:04

L28274

Entergy Nuclear Northeast

EN002-3P50IP3-04



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-067						Collect Start: 04/04/2006 17:20				Matrix: Water				(WO)		
Station:						Collect Stop:				Volume:						
Description:						Receive Date: 04/12/2006				% Moisture:						
LIMS Number: L28274-5																
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag Values			
H-3	2010	5.18E+02	1.48E+02	2.17E+02	pCi/L		10	ml		04/24/06	100	M	+			
SR-90	2019	8.83E-01	3.96E-01	5.95E-01	pCi/L		450	ml	04/04/06 17:20	04/26/06	800	M	+			
TOTAL SR	2019	7.50E-01	7.06E-01	9.92E-01	pCi/L		450	ml	04/04/06 17:20	04/19/06	300	M	U			
BE-7	2007	-2.05E-01	6.49E-01	1.07E+00	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
K-40	2007	1.39E+02	1.57E+02	1.23E+02	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			Yes
MN-54	2007	-7.67E-01	3.79E+00	6.26E+00	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CO-57	2007	-1.12E+00	2.00E+00	3.32E+00	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CO-58	2007	-4.80E-01	2.56E-01	3.94E-01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
FE-59	2007	4.77E-02	6.24E-02	1.06E-01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CO-60	2007	-3.84E-02	7.11E+00	1.18E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
ZN-65	2007	2.08E+01	6.49E+00	1.17E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U*			No
NB-94	2007	1.00E-01	8.34E+00	1.38E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
NB-95	2007	1.42E-01	1.74E-01	2.90E-01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
ZR-95	2007	-1.01E-01	3.12E-01	5.06E-01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
RU-103	2007	-3.73E-03	1.49E-02	2.46E-02	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
RU-106	2007	-4.20E+01	3.99E+01	6.31E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
AG-110M	2007	3.25E+00	3.03E+00	5.15E+00	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
SB-124	2007	1.15E-02	1.74E-01	2.39E-01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
SB-125	2007	-1.14E+01	1.69E+01	2.71E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CS-134	2007	1.40E+01	7.88E+00	1.14E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U*			No
CS-137	2007	1.38E+01	8.80E+00	1.51E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CE-141	2007	-2.27E-03	5.06E-03	8.31E-03	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
CE-144	2007	-2.30E+01	1.69E+01	2.76E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
EU-154	2007	-8.90E+00	9.74E+00	1.61E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
RA-226	2007	9.20E+01	1.81E+02	2.65E+02	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No
TH-228	2007	1.74E+01	9.45E+00	1.38E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	+			Yes
TH-232	2007	4.64E+00	3.61E+01	5.49E+01	pCi/L		277.43	ml	04/04/07 17:20	04/17/06	78760	Sec	U			No

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**Bolded text indicates reportable value.**

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Yes = Peak identified in gamma spectrum

\*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 13:04

**L28274**

Entergy Nuclear Northeast

EN002-3P50IP3-04

**TELEDYNE**  
**BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Floyd Hood, Chem

Sample ID: IP3-06-068				Collect Start: 04/04/2006 17:00				Matrix: Water				(WO)					
Station:				Collect Stop:				Volume:									
Description:				Receive Date: 04/12/2006				% Moisture:									
LIMS Number: L28274-6																	
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag	Values			
H-3	2010	2.98E+02	1.45E+02	2.23E+02	pCi/L		10	ml		04/25/06	100	M	+				
SR-90	2019	1.82E-01	3.35E-01	5.39E-01	pCi/L		450	ml	04/04/06 17:00	04/26/06	800	M	U				
TOTAL SR	2019	4.33E-01	5.75E-01	8.18E-01	pCi/L		450	ml	04/04/06 17:00	04/19/06	300	M	U				
BE-7	2007	3.05E+01	6.67E+01	1.12E+02	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
K-40	2007	3.52E+02	1.41E+02	9.61E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	+			Yes	
CR-51	2007	-7.30E+01	7.37E+01	1.23E+02	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
MN-54	2007	-4.02E-01	7.20E+00	1.22E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CO-57	2007	2.31E+00	5.38E+00	8.86E+00	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CO-58	2007	7.38E+00	8.57E+00	1.25E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
FE-59	2007	1.73E+00	1.57E+01	2.64E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CO-60	2007	1.40E+00	6.78E+00	1.17E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
ZN-65	2007	1.38E+01	1.58E+01	2.72E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
NB-94	2007	-3.61E+00	7.08E+00	1.17E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
NB-95	2007	7.02E+00	7.82E+00	1.34E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
ZR-95	2007	-1.02E+01	1.37E+01	2.24E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
MO-99	2007	-8.27E+02	1.38E+03	2.27E+03	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
RU-103	2007	5.22E+00	8.30E+00	1.40E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
RU-106	2007	-1.71E+00	6.85E+01	1.15E+02	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
AG-110M	2007	-6.91E+00	7.03E+00	1.15E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
SB-124	2007	-1.14E+00	9.86E+00	1.40E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
SB-125	2007	7.32E+00	1.98E+01	3.32E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
I-131	2007	-6.82E+00	2.02E+01	3.38E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CS-134	2007	1.07E+01	9.15E+00	1.35E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CS-137	2007	8.62E+00	7.62E+00	1.32E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
BA-140	2007	-4.96E+01	4.67E+01	7.74E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
LA-140	2007	-2.24E+00	1.49E+01	2.49E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CE-141	2007	8.70E+00	1.41E+01	2.06E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	
CE-144	2007	-8.07E+00	5.06E+01	7.02E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U			No	

## Flag Values

- U = Compound/Analyte not detected or less than 3 sigma
- +
- U\* = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)
- High = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma
- Spec = Activity concentration exceeds customer reporting value
- L = MDC exceeds customer technical specification
- L = Low recovery
- H = High recovery

Bolded text indicates reportable value.

- No = Peak not identified in gamma spectrum
- Yes = Peak identified in gamma spectrum
- \*\*\*\* Results are reported on an as received basis unless otherwise noted

MDC - Minimum Detectable Concentration

# Report of Analysis

04/26/06 13:04

**L28274**

Entergy Nuclear Northeast

EN002-3P50IP3-04

Floyd Hood, Chem



**TELEDYNE  
BROWN ENGINEERING, INC.**  
A Teledyne Technologies Company

Sample ID: IP3-06-068						Collect Start: 04/04/2006 17:00				Matrix: Water				(WO)	
Station:						Collect Stop:				Volume:					
Description:						Receive Date: 04/12/2006				% Moisture:					
LIMS Number: L28274-6															
Radionuclide	SOP#	Activity Conc	Uncertainty 2 Sigma	MDC	Units	Run #	Aliquot Volume	Aliquot Units	Reference Date	Count Date	Count Time	Count Units	Flag	Values	
EU-154	2007	-4.28E-01	1.11E+01	1.81E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U	No	
RA-226	2007	1.16E+02	1.85E+02	2.39E+02	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U	Yes	
TH-228	2007	1.81E+01	1.42E+01	1.92E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U	Yes	
TH-232	2007	2.84E+01	1.99E+01	4.19E+01	pCi/L		282.01	ml	04/04/06 17:00	04/17/06	78468	Sec	U	Yes	

## Flag Values

U = Compound/Analyte not detected or less than 3 sigma  
 + = Activity concentration exceeds MDC and 3 sigma; peak identified(gamma only)  
 U\* = Compound/Analyte not detected. Peak not identified, but forced activity concentration exceeds MDC and 3 sigma  
 High = Activity concentration exceeds customer reporting value  
 Spec = MDC exceeds customer technical specification  
 L = Low recovery  
 H = High recovery

**Bolded text indicates reportable value.**

No = Peak not identified in gamma spectrum  
 Yes = Peak identified in gamma spectrum  
 \*\*\*\* Results are reported on an as received basis  
 unless otherwise noted

MDC - Minimum Detectable Concentration

04/13/06 10:29

Teledyne Brown Engineering  
Sample Receipt Verification/Variance Report

SR #: SR07822

Client: Entergy Nuclear Operations, Project #: EN002-3P50IP3-04 LIMS #: L28274

Initiated By: PMARSHALL

Init Date: 04/13/06 Receive Date: 04/13/06

Notification of Variance

Person Notified:

Contacted By:

Notify Date:

Notify Method:

Notify Comment:

Client Response

Person Responding:

Response Date:

Response Method:

Response Comment

Criteria	Yes	No	NA	Comment
1 Shipping container custody seals present and intact.			NA	
2 Sample container custody seals present and intact.			NA	
3 Sample containers received in good condition		Y		
4 Chain of custody received with samples		Y		
5 All samples listed on chain of custody received		Y		
6 Sample container labels present and legible.		Y		
7 Information on container labels correspond with chain of custody		Y		
8 Sample(s) properly preserved and in appropriate container(s)			NA	
9 Other (Describe)			NA	

Indian Point Energy Center

**Entergy Nuclear Operations, Inc.**  
Sample Collection/Receipt Sheet

✓ P-4D  
L 28274

unit yr id# format (IPX-XX-XXX) Teledyne Sample #	Sample ID	Sample Type	Start date	Start time	Stop date	Stop time	Volume or Area	Analysis	Comments	Sample Size Units	Plant Code
IP3-06-063	MW-36 26' depth	WG	5-Apr-06	10:30			5.000E+02	SR-90	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
IP3-06-064	MW-36 35' depth	WG	5-Apr-06	12:55			5.000E+02	SR-90	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
IP3-06-065	MW-36 53' depth	WG	5-Apr-06	14:30			5.000E+02	SR-90	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
IP3-06-066	MW-51, 200' depth	WG	4-Apr-06	14:20			1.000E+03	SR-90, H-3, GELI	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
IP3-06-067	MW-45 42.5' depth	WG	4-Apr-06	17:20			1.000E+03	SR-90, H-3, GELI	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
IP3-06-068	MW-45 61' depth	WG	4-Apr-06	17:00			1.000E+03	SR-90, H-3, GELI	Count to Enviromental LLDs; RUSH	ML	EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04
											EN002-3P50IP3-04

Collected by:

Shipped by:

Received by: *Pat Marshall* 4/12/06

Count to Envirmental LLDs

**IP3**

Rush sample results