



**TELEDYNE
BROWN ENGINEERING, INC.**
A Teledyne Technologies Company
2508 Quality Lane
Knoxville, TN 37931-3133
865-690-6819

Zoe Cox
Byron Station
Exelon Nuclear
4450 N. German Church Road
Byron, IL 61010

Report of Analysis/Certificate of Conformance

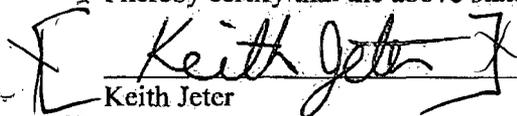
07/18/2008

LIMS #: L35668
Project ID# EX001-3ESPBYRON-06
Received: 07/07/2008
Delivery Date 07/28/2008
P.O.#: 01000298 REL.#00011
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 received by the laboratory, 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) |
|-----------|---------------|----------------------------|
| BY-AR-7 | L35668-2 | AR-7 |

Method Reference Numbers

| Matrix | Analysis | Method Reference |
|--------|------------|------------------|
| WG | H-3 (DIST) | EPA 906.0 |

This report shall not be reproduced or distributed except in its entirety.

N-24

Report of Analysis

07/18/08 14:35

L35668

Byron Station

EX001-3ESPBYPYRON-06



| Sample ID: BY-AR-7 | | Collect Start: 06/30/2008 13:15 | | | | Matrix: Ground Water (WG) | | | | | | | |
|---------------------------|------|---------------------------------|---------------------|----------|-------|---------------------------|----------------|---------------|----------------|------------|------------|-------------|-------------|
| Station: AR-7 | | Collect Stop: 06/30/2008 13:15 | | | | Volume: | | | | | | | |
| Description: | | Receive Date: 07/07/2008 | | | | % Moisture: | | | | | | | |
| LIMS Number: L35668-2 | | | | | | | | | | | | | |
| 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 (DIST) | 2011 | 1.22E+02 | 1.10E+02 | 1.69E+02 | pCi/L | | 10 | ml | | 07/17/08 | 70 | M | 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.

07/11/08 13:30

Teledyne Brown Engineering
Sample Receipt Verification/Variance Report

SR #: SR17751

Client: Exelon

Project #: EX001-3EREMPHYRON-05

LIMS #: L35668

Initiated By: LRPERRY
 Init Date: 07/10/08 Receive Date: 07/10/08

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 | |

Raw Data Sheet (rawdata)
Jul 18, 2008, 02:35 pm

Work Order: L35668

Customer: Exelon

Page: 1

Nuclide: H-3 (DIST)

Project: EX001-3RSPBYRON-06

| Sample ID | Run | Analysis | Reference | Volume/ | Scavenge | Milking | Mount | Count | Counter | Total | Sample | Bkg | Bkg | Decay & | Analyst | |
|---------------------------------------------------------|-----|----------|-----------|---------|-----------|-----------|--------|----------|--------------------|-------|--------|-----------|------------|---------------|---------|-----|
| Client ID | # | | Date/time | Aliquot | Date/time | Date/time | Weight | Recovery | Date/time | ID | counts | dt | counts | Eff. Ingrowth | Factor | |
| L35668-2 | | H-3 DIST | | 10 ml. | | | 0 | | 17-jul-08 00:45 | LS7 | 176 | 70 (M) | 137 (M) | 70 (M) | .208 | KFY |
| BY-AR-7 | | | | | | | | | | | | | | | | |
| Activity: 1.22E+02 Error: 1.1E+02 MDC: 1.69E+02 * pCi/L | | | | | | | | | | | | | | | | |