Analytical Data Report for Samples Collected From 100-N Area Aquifer Tubes, Sample Delivery Group ESL080013

Michael Lindberg

September 2008
10/07/08 15:29

To: Dana Widrig

From: Michael J. Lindberg

Environmental Sciences Laboratory
Energy and Environment Directorate, Pacific Northwest National Laboratory

Subject: Analytical Data Report For Ground Water Samples Collected From 100-N Area Aquifer Tubes, Sample Delivery Group ESL080013, SAF Number G08-003

This letter contains the following information for sample delivery group ESL080013

• Cover Sheet
• Narrative
• Analytical Results
• Chain of Custodies
Introduction

Between March 14, 2008 and March 24, 2008 ground water samples were received from 100-N Area Aquifer Tubes for chemical analysis.

Analytical Results/Methodology

The analyses for this project were performed at the 325 building located in the 300 Area of the Hanford Site. The analyses were performed according to Pacific Northwest National Laboratory (PNNL) approved procedures and/or nationally recognized test procedures. The data sets include the sample identification numbers, analytical results, estimated quantification limits (EQL), and quality control data.

Quality Control

The preparatory and analytical quality control requirements, calibration requirements, acceptance criteria, and failure actions are defined in the on-line QA plan “Conducting Analytical Work in Support of Regulatory Programs” (CAW). This QA plan implements the Hanford Analytical Services Quality Assurance Requirements Documents (HASQARD) for PNNL.

Definitions

Dup       Duplicate
RPD      Relative Percent Difference

Sample Receipt

Samples were received with a chain of custody (COC) and were analyzed according to the sample identification numbers supplied by the client. All samples were refrigerated upon receipt until prepared for analysis.

All samples were received with custody seals intact unless noted in the Case Narrative.

Holding Times

Holding time is defined as the time from sample preparation to the time of analyses. The prescribed holding times were met for all analytes unless noted in the Case Narrative.

Analytical Results

All reported analytical results meet the requirements of the CAW or client specified SOW unless noted in the case narrative.
DISCLAIMER

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SAMPLES INCLUDED IN THIS REPORT

Fluor Citrate

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<th>HEIS No.</th>
<th>Laboratory ID</th>
<th>Matrix</th>
<th>Date Collected</th>
<th>Date Received</th>
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<tbody>
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<td>B1TH77</td>
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<td>WATER</td>
<td>3/13/08 13:11</td>
<td>3/14/08 12:10</td>
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<td>B1THR2</td>
<td>0810001-03</td>
<td>WATER</td>
<td>3/20/08 10:59</td>
<td>3/20/08 15:20</td>
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</tbody>
</table>
The following analyses were performed on the following samples included in this report:

Anions By Ion Chromatography

## SAMPLES ANALYZED IN THIS REPORT

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<thead>
<tr>
<th>HEIS No.</th>
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<th>Analyte</th>
<th>Results</th>
<th>Units</th>
<th>EQL</th>
<th>Analyzed</th>
<th>Batch</th>
<th>Method</th>
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<td>1.00E-1</td>
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<td>4/08/08</td>
<td>8J07004</td>
<td>AGG-IC-001</td>
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<td>HEIS No. B1THR2</td>
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