

LABORATORY REPORT

Prepared For: APS - Four Corners Power Plant
County Road 6675, Stn. 4915
Fruitland, NM 87416
Attention: Arnold Slowman

Project: NPDES Priority Pollutants Outfall
01E-CWTP

Sampled: 12/18/12-12/19/12
Received: 12/20/12
Issued: 01/25/13 11:03

NELAP #01109CA / AZ100001 Arizona DHS#AZ0728

*The results listed within this Laboratory Report pertain only to the samples tested in the laboratory. The analyses contained in this report were performed in accordance with the applicable certifications as noted. All soil samples are reported on a wet weight basis unless otherwise noted in the report. This Laboratory Report is confidential and is intended for the sole use of TestAmerica and its client. This report shall not be reproduced, except in full, without written permission from TestAmerica. The Chain(s) of Custody, 9 pages, are included and are an integral part of this report.
This entire report was reviewed and approved for release.*

CASE NARRATIVE

LABORATORY ID

PVL1364-01
PVL1364-02
PVL1364-03
PVL1364-04
PVL1364-05
PVL1364-06
PVL1364-07

CLIENT ID

CWTP (Outfall 01E)-A
CWTP (Outfall 01E)-B
CWTP (Outfall 01E)-C
CWTP (Outfall 01E)-D
CWTP (Outfall 01E)
CWTP (Outfall 01E)
Trip Blank

MATRIX

Water
Water
Water
Water
Water
Water
Water

TestAmerica Phoenix

Kylie Emily
Project Manager

APS - Four Corners Power Plant
County Road 6675, Stn. 4915
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Report Number: PVL1364

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SAMPLE RECEIPT: Samples were received intact, at 4°C, on ice and with chain of custody documentation.

HOLDING TIMES: All samples were analyzed within prescribed holding times and/or in accordance with the TestAmerica Sample Acceptance Policy unless otherwise noted in the report.


PRESERVATION: Samples requiring preservation were verified prior to sample analysis.

QA/QC CRITERIA: All analyses met method criteria, except as noted in the report with data qualifiers. Cyanide samples are tested for the presence of sulfide within 24hrs of sampling. The sample requiring cyanide was received and tested after the 24hr period.

COMMENTS: Results that fall between the MDL and RL are 'E4' flagged.

SUBCONTRACTED: Refer to the last page for specific subcontract laboratory information included in this report.

Reviewed By:



TestAmerica Phoenix

Kylie Emily
Project Manager

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APS - Four Corners Power Plant
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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-05 (CWTP (Outfall 01E) - Water)					Sampled: 12/18/12				
Reporting Units: mg/l									
N-Hexane Extractable (HEM)	EPA 1664A	12L1051	N/A	5.0	ND	1	12/28/12	12/28/12	

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APS - Four Corners Power Plant
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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-01 (CWTP (Outfall 01E)-A - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					<i>105 %</i>				
<i>Surrogate: Toluene-d8 (70-130%)</i>					<i>106 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					<i>101 %</i>				
Sample ID: PVL1364-02 (CWTP (Outfall 01E)-B - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					<i>104 %</i>				
<i>Surrogate: Toluene-d8 (70-130%)</i>					<i>104 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					<i>97 %</i>				
Sample ID: PVL1364-03 (CWTP (Outfall 01E)-C - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					<i>108 %</i>				
<i>Surrogate: Toluene-d8 (70-130%)</i>					<i>102 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					<i>101 %</i>				
Sample ID: PVL1364-04 (CWTP (Outfall 01E)-D - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					<i>105 %</i>				
<i>Surrogate: Toluene-d8 (70-130%)</i>					<i>101 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					<i>98 %</i>				
Sample ID: PVL1364-07 (Trip Blank - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
Dichlorodifluoromethane	EPA 8260B	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					<i>104 %</i>				
<i>Surrogate: Toluene-d8 (70-130%)</i>					<i>106 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					<i>99 %</i>				

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12

Received: 12/20/12

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-01 (CWTP (Outfall 01E)-A - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2,2-Tetrachloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloropropane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,3-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,4-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Benzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromodichloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromoform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromomethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
Carbon tetrachloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloromethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
cis-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Dibromochloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Ethylbenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Methylene Chloride	EPA 624	12L1011	N/A	2.0	ND	1	12/27/12	12/28/12	
Tetrachloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Toluene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,2-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichlorofluoromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Vinyl chloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					101 %				
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					105 %				
<i>Surrogate: Toluene-d8 (70-130%)</i>					106 %				

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 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-02 (CWTP (Outfall 01E)-B - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2,2-Tetrachloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloropropane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,3-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,4-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Benzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromodichloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromoform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromomethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
Carbon tetrachloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloromethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
cis-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Dibromochloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Ethylbenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Methylene Chloride	EPA 624	12L1011	N/A	2.0	ND	1	12/27/12	12/28/12	
Tetrachloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Toluene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,2-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichlorofluoromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Vinyl chloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					97 %				
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					104 %				
<i>Surrogate: Toluene-d8 (70-130%)</i>					104 %				

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 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12

Received: 12/20/12

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-03 (CWTP (Outfall 01E)-C - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2,2-Tetrachloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloropropane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,3-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,4-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Benzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromodichloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromoform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromomethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
Carbon tetrachloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloromethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
cis-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Dibromochloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Ethylbenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Methylene Chloride	EPA 624	12L1011	N/A	2.0	ND	1	12/27/12	12/28/12	
Tetrachloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Toluene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,2-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichlorofluoromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Vinyl chloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					101 %				
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					108 %				
<i>Surrogate: Toluene-d8 (70-130%)</i>					102 %				

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 Attention: Arnold Slowman

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-04 (CWTP (Outfall 01E)-D - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2,2-Tetrachloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1,2-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,1-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,2-Dichloropropane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,3-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
1,4-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Benzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromodichloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromoform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Bromomethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
Carbon tetrachloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloroform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Chloromethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/28/12	
cis-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Dibromochloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Ethylbenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Methylene Chloride	EPA 624	12L1011	N/A	2.0	ND	1	12/27/12	12/28/12	
Tetrachloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Toluene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,2-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
trans-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Trichlorofluoromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
Vinyl chloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/28/12	
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					98 %				
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					105 %				
<i>Surrogate: Toluene-d8 (70-130%)</i>					101 %				

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Kylie Emily
 Project Manager

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APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12

Received: 12/20/12

PURGEABLES BY GC/MS (EPA 624)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-07 (Trip Blank - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
1,1,1-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,1,2,2-Tetrachloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,1,2-Trichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,1-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,1-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,2-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,2-Dichloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,2-Dichloropropane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,3-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
1,4-Dichlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Benzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Bromodichloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Bromoform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Bromomethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/27/12	
Carbon tetrachloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Chlorobenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Chloroethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Chloroform	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Chloromethane	EPA 624	12L1011	N/A	5.0	ND	1	12/27/12	12/27/12	
cis-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Dibromochloromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Ethylbenzene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Methylene Chloride	EPA 624	12L1011	N/A	2.0	ND	1	12/27/12	12/27/12	
Tetrachloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Toluene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
trans-1,2-Dichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
trans-1,3-Dichloropropene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Trichloroethene	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Trichlorofluoromethane	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
Vinyl chloride	EPA 624	12L1011	N/A	1.0	ND	1	12/27/12	12/27/12	
<i>Surrogate: 4-Bromofluorobenzene (70-130%)</i>					99 %				
<i>Surrogate: Dibromofluoromethane (70-130%)</i>					104 %				
<i>Surrogate: Toluene-d8 (70-130%)</i>					106 %				

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Kylie Emily
 Project Manager

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APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-01 (CWTP (Outfall 01E)-A - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
bis(chloromethyl) ether	EPA 8260B	12L1011	N/A	NA	ND	1	12/27/12	12/28/12	T7
Sample ID: PVL1364-02 (CWTP (Outfall 01E)-B - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
bis(chloromethyl) ether	EPA 8260B	12L1011	N/A	NA	ND	1	12/27/12	12/28/12	T7
Sample ID: PVL1364-03 (CWTP (Outfall 01E)-C - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
bis(chloromethyl) ether	EPA 8260B	12L1011	N/A	NA	ND	1	12/27/12	12/28/12	T7
Sample ID: PVL1364-04 (CWTP (Outfall 01E)-D - Water)					Sampled: 12/19/12				
Reporting Units: ug/l									
bis(chloromethyl) ether	EPA 8260B	12L1011	N/A	NA	ND	1	12/27/12	12/28/12	T7
Sample ID: PVL1364-07 (Trip Blank - Water)					Sampled: 12/18/12				
Reporting Units: ug/l									
bis(chloromethyl) ether	EPA 8260B	12L1011	N/A	NA	ND	1	12/27/12	12/27/12	T7

TestAmerica Phoenix

Kylie Emily
 Project Manager

APS - Four Corners Power Plant
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 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12

Received: 12/20/12

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				RL1
Reporting Units: ug/l									
n-Nitrosodimethylamine	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Bis(2-chloroethyl)ether	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Phenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2-Chlorophenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Bis(2-chloroisopropyl)ether	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Hexachloroethane	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
n-Nitroso-di-n-propylamine	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Nitrobenzene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Isophorone	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2-Nitrophenol	EPA 625	12L0874	N/A	30	ND	2.11	12/22/12	12/29/12	
2,4-Dimethylphenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Bis(2-chloroethoxy)methane	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2,4-Dichlorophenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
1,2,4-Trichlorobenzene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Naphthalene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Hexachlorobutadiene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
4-Chloro-3-methylphenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Hexachlorocyclopentadiene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2,4,6-Trichlorophenol	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2-Chloronaphthalene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Acenaphthylene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Dimethyl phthalate	EPA 625	12L0874	N/A	40	ND	2.11	12/22/12	12/29/12	
2,6-Dinitrotoluene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	C
Acenaphthene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
2,4-Dinitrophenol	EPA 625	12L0874	N/A	100	ND	2.11	12/22/12	12/29/12	C
2,4-Dinitrotoluene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	C
4-Nitrophenol	EPA 625	12L0874	N/A	50	ND	2.11	12/22/12	12/29/12	
Fluorene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
4-Chlorophenyl phenyl ether	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Diethyl phthalate	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
4,6-Dinitro-2-methylphenol	EPA 625	12L0874	N/A	100	ND	2.11	12/22/12	12/29/12	C
n-Nitrosodiphenylamine	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
1,2-Diphenylhydrazine (as Azobenzene)	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
4-Bromophenyl phenyl ether	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Hexachlorobenzene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Pentachlorophenol	EPA 625	12L0874	N/A	100	ND	2.11	12/22/12	12/29/12	
Phenanthrene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Anthracene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Di-n-butyl phthalate	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Fluoranthene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	

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Kylie Emily
 Project Manager

APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water) - cont.					Sampled: 12/19/12				RL1
Reporting Units: ug/l									
Benzidine	EPA 625	12L0874	N/A	100	ND	2.11	12/22/12	12/29/12	
Pyrene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Butyl benzyl phthalate	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
3,3-Dichlorobenzidine	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Benanthracene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Chrysene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Bis(2-ethylhexyl)phthalate	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Di-n-octyl phthalate	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Benzo(b)fluoranthene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Benzo(k)fluoranthene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Benzo(a)pyrene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Indeno(1,2,3-cd)pyrene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Dibenz(a,h)anthracene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
Benzo(g,h,i)perylene	EPA 625	12L0874	N/A	20	ND	2.11	12/22/12	12/29/12	
<i>Surrogate: 2-Fluorophenol (10-78%)</i>					41 %				
<i>Surrogate: Phenol-d6 (10-51%)</i>					24 %				
<i>Surrogate: Nitrobenzene-d5 (22-116%)</i>					75 %				
<i>Surrogate: 2-Fluorobiphenyl (40-91%)</i>					68 %				
<i>Surrogate: 2,4,6-Tribromophenol (14-122%)</i>					84 %				
<i>Surrogate: 4-Terphenyl-d14 (10-117%)</i>					57 %				

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Kylie Emily
 Project Manager

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APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				RL1
Reporting Units: ug/l									
alpha-BHC	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
gamma-BHC (Lindane)	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
beta-BHC	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Heptachlor	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
delta-BHC	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Aldrin	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Heptachlor epoxide	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Endosulfan I	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
4,4'-DDE	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Dieldrin	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Endrin	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
4,4'-DDD	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Endosulfan II	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
4,4'-DDT	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Endrin aldehyde	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Endosulfan sulfate	EPA 608	12L0950	N/A	1.0	ND	20	12/26/12	01/03/13	
Toxaphene	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Chlordane	EPA 608	12L0950	N/A	10	ND	20	12/26/12	01/03/13	
Aroclor 1016	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1221	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1232	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1242	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1248	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1254	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Aroclor 1260	EPA 608	12L0950	N/A	20	ND	20	12/26/12	01/03/13	
Surrogate: Tetrachloro- <i>m</i> -xylene (10-132%)					74 %				Z3
Surrogate: Decachlorobiphenyl (10-103%)					59 %				Z3

TestAmerica Phoenix

Kylie Emily
 Project Manager

APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

TOTAL METALS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/l									
Aluminum	EPA 200.7	12L0971	N/A	0.20	0.28	1	12/27/12	12/28/12	
Antimony	EPA 200.7	12L0971	N/A	0.040	ND	1	12/27/12	12/28/12	
Arsenic	EPA 200.7	12L0971	N/A	0.10	ND	1	12/27/12	12/28/12	
Barium	EPA 200.7	12L0971	N/A	0.010	0.21	1	12/27/12	12/28/12	
Beryllium	EPA 200.7	12L0971	N/A	0.0010	ND	1	12/27/12	12/28/12	
Boron	EPA 200.7	12L0971	N/A	0.20	0.81	1	12/27/12	12/28/12	
Cadmium	EPA 200.7	12L0971	N/A	0.0010	ND	1	12/27/12	12/28/12	
Chromium	EPA 200.7	12L0971	N/A	0.010	ND	1	12/27/12	12/28/12	
Cobalt	EPA 200.7	12L0971	N/A	0.040	ND	1	12/27/12	12/28/12	
Copper	EPA 200.7	12L0971	N/A	0.010	ND	1	12/27/12	12/28/12	
Iron	EPA 200.7	12L0971	N/A	0.10	0.22	1	12/27/12	12/28/12	
Lead	EPA 200.7	12L0971	N/A	0.015	ND	1	12/27/12	12/28/12	
Magnesium	EPA 200.7	12L0971	N/A	2.0	33	1	12/27/12	12/28/12	
Manganese	EPA 200.7	12L0971	N/A	0.010	0.034	1	12/27/12	12/28/12	
Mercury	EPA 245.1	12L0919	N/A	0.00020	ND	1	12/26/12	12/26/12	
Molybdenum	EPA 200.7	12L0971	N/A	0.010	0.032	1	12/27/12	12/28/12	
Nickel	EPA 200.7	12L0971	N/A	0.010	ND	1	12/27/12	12/28/12	
Selenium	EPA 200.7	12L0971	N/A	0.10	ND	1	12/27/12	12/28/12	
Silver	EPA 200.7	12L0971	N/A	0.010	ND	1	12/27/12	12/28/12	
Thallium	EPA 200.7	12L0971	N/A	0.10	ND	1	12/27/12	12/28/12	
Tin	EPA 200.7	12L0971	N/A	0.10	0.49	1	12/27/12	12/28/12	M2a
Titanium	EPA 200.7	12L0971	N/A	0.10	ND	1	12/27/12	12/28/12	
Zinc	EPA 200.7	12L0971	N/A	0.050	ND	1	12/27/12	12/28/12	

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APS - Four Corners Power Plant
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 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

INORGANICS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-05RE4 (CWTP (Outfall 01E) - Water)					Sampled: 12/18/12				
Reporting Units: mg/l									
Cyanide, Total	SM 4500CN-E	12L1111	N/A	0.050	ND	1	12/28/12	12/28/12	
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/l									
Ammonia-N	SM 4500NH3-D	12L0929	N/A	0.50	ND	1	12/26/12	12/26/12	
Biochemical Oxygen Demand	SM 5210B	12L0852	N/A	5.0	ND	1	12/20/12	12/21/12	
Bromide	EPA 300.0	12L0815	N/A	0.50	ND	1	12/20/12	12/20/12	
Chemical Oxygen Demand	SM 5220D	12L0974	N/A	20	30	1	12/27/12	12/27/12	
Fluoride	EPA 300.0	12L0815	N/A	0.40	1.0	1	12/20/12	12/20/12	
Nitrate-N	EPA 300.0	12L0815	N/A	0.20	ND	1	12/20/12	12/20/12	
Nitrite-N	EPA 300.0	12L0815	N/A	0.20	ND	1	12/20/12	12/20/12	
Phosphorus, Total - P	SM 4500-P B, E	12L0833	N/A	0.10	ND	1	12/21/12	12/21/12	
Sulfate	EPA 300.0	12L0815	N/A	20	460	10	12/20/12	12/20/12	
Sulfide	SM 4500S C,D	12L0838	N/A	0.050	ND	1	12/24/12	12/24/12	
Total Suspended Solids	SM 2540D	12L0895	N/A	10	11	1	12/24/12	12/24/12	

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Sampled: 12/18/12-12/19/12
Received: 12/20/12

NITROGEN, ORGANIC (Calculation)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/kg									
Nitrogen, Organic	M4500-N C	13A0176	N/A	1.6	ND	1	01/07/13	01/07/13	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

TOTAL ORGANIC CARBON (SM 5310B)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/l									
Total Organic Carbon	SM 5310B	12L0923	N/A	1.0	5.6	1	12/26/12	12/26/12	
Sample ID: PVL1364-07 (Trip Blank - Water)					Sampled: 12/18/12				
Reporting Units: mg/l									
Total Organic Carbon	SM 5310B	12L0923	N/A	1.0	ND	1	12/26/12	12/26/12	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

Tetra Chlorinated Dioxins & Furans ID HRGC/HRMS

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: pg/L									
2,3,7,8-TCDD	1613B	8384	N/A	11	ND	1	01/08/13	01/10/13	
<i>Surrogate: 13C-2,3,7,8-TCDD (31-137%)</i>					47 %				
<i>Surrogate: 37Cl4-2,3,7,8-TCDD (42-164%)</i>					96 %				

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

Nitrogen, Total Kjeldahl

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/L									
Kjeldahl Nitrogen as N	351.2	47709	0.060	0.10	0.79	1	12/31/12	01/02/13	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

Phenolics, Total Recoverable

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-05 (CWTP (Outfall 01E) - Water)					Sampled: 12/18/12				
Reporting Units: mg/L									
Phenolics, Total Recoverable	420.4	48466	0.020	0.050	ND	1	01/04/13	01/04/13	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

Sulfite

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)					Sampled: 12/19/12				
Reporting Units: mg/L									
Sulfite	SM 4500 SO3 B	47201	4.0	5.0	ND	1	12/28/12	12/28/12	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

Volatile Organic Compounds (GC/MS)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-01 (CWTP (Outfall 01E)-A - Water)					Sampled: 12/18/12				
Reporting Units: ug/L									
2-Chloroethyl vinyl ether	624	45822	1.6	5.0	ND	1	12/21/12	12/21/12	
Acrolein	624	45822	0.85	50	ND	1	12/21/12	12/21/12	
Acrylonitrile	624	45822	3.3	10	ND	1	12/21/12	12/21/12	
<i>Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)</i>					<i>100 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)</i>					<i>99 %</i>				
<i>Surrogate: Dibromofluoromethane (Surr) (67-129%)</i>					<i>106 %</i>				
<i>Surrogate: Toluene-d8 (Surr) (60-144%)</i>					<i>96 %</i>				
Sample ID: PVL1364-02 (CWTP (Outfall 01E)-B - Water)					Sampled: 12/18/12				
Reporting Units: ug/L									
2-Chloroethyl vinyl ether	624	45822	1.6	5.0	ND	1	12/21/12	12/21/12	
Acrolein	624	45822	0.85	50	ND	1	12/21/12	12/21/12	
Acrylonitrile	624	45822	3.3	10	ND	1	12/21/12	12/21/12	
<i>Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)</i>					<i>102 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)</i>					<i>100 %</i>				
<i>Surrogate: Dibromofluoromethane (Surr) (67-129%)</i>					<i>102 %</i>				
<i>Surrogate: Toluene-d8 (Surr) (60-144%)</i>					<i>97 %</i>				
Sample ID: PVL1364-03 (CWTP (Outfall 01E)-C - Water)					Sampled: 12/19/12				
Reporting Units: ug/L									
2-Chloroethyl vinyl ether	624	45822	1.6	5.0	ND	1	12/21/12	12/21/12	
Acrolein	624	45822	0.85	50	ND	1	12/21/12	12/21/12	
Acrylonitrile	624	45822	3.3	10	ND	1	12/21/12	12/21/12	
<i>Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)</i>					<i>99 %</i>				
<i>Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)</i>					<i>99 %</i>				
<i>Surrogate: Dibromofluoromethane (Surr) (67-129%)</i>					<i>101 %</i>				
<i>Surrogate: Toluene-d8 (Surr) (60-144%)</i>					<i>98 %</i>				

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

Volatile Organic Compounds (GC/MS)

Analyte	Method	Batch	MDL Limit	Reporting Limit	Sample Result	Dilution Factor	Date Extracted	Date Analyzed	Data Qualifiers
Sample ID: PVL1364-04 (CWTP (Outfall 01E)-D - Water)					Sampled: 12/19/12				
Reporting Units: ug/L									
2-Chloroethyl vinyl ether	624	45822	1.6	5.0	ND	1	12/21/12	12/21/12	
Acrolein	624	45822	0.85	50	ND	1	12/21/12	12/21/12	
Acrylonitrile	624	45822	3.3	10	ND	1	12/21/12	12/21/12	
<i>Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)</i>					99 %				
<i>Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)</i>					99 %				
<i>Surrogate: Dibromofluoromethane (Surr) (67-129%)</i>					104 %				
<i>Surrogate: Toluene-d8 (Surr) (60-144%)</i>					95 %				

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

SHORT HOLD TIME DETAIL REPORT

	Hold Time (in days)	Date/Time Sampled	Date/Time Received	Date/Time Extracted	Date/Time Analyzed
Sample ID: CWTP (Outfall 01E) (PVL1364-06) - Water					
EPA 300.0	2	12/19/2012 14:00	12/20/2012 11:00	12/20/2012 18:00	12/20/2012 18:52
SM 5210B	2	12/19/2012 14:00	12/20/2012 11:00	12/20/2012 17:30	12/21/2012 12:33

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

HEXANE EXTRACTABLE MATERIAL BY EPA METHOD 1664A

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L1051 Extracted: 12/28/12											
Blank Analyzed: 12/28/2012 (12L1051-BLK1)											
N-Hexane Extractable (HEM)	ND	5.0	N/A	mg/l							
LCS Analyzed: 12/28/2012 (12L1051-BS1)											
N-Hexane Extractable (HEM)	40.9	5.0	N/A	mg/l	40.0		102	78-114			
LCS Dup Analyzed: 12/28/2012 (12L1051-BSD1)											
N-Hexane Extractable (HEM)	40.0	5.0	N/A	mg/l	40.0		100	78-114	2	18	
Matrix Spike Analyzed: 12/28/2012 (12L1051-MS1)											
						Source: PVL1084-02RE1					
N-Hexane Extractable (HEM)	50.8	5.0	N/A	mg/l	40.0	14.2	92	78-114			

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Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

VOLATILE ORGANICS BY GC/MS (EPA 5030B/8260B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Blank Analyzed: 12/27/2012 (12L1011-BLK1)											
Dichlorodifluoromethane	ND	1.0	N/A	ug/l							
Surrogate: Dibromofluoromethane	26.8			ug/l	25.0		107	70-130			
Surrogate: Toluene-d8	25.7			ug/l	25.0		103	70-130			
Surrogate: 4-Bromofluorobenzene	24.7			ug/l	25.0		99	70-130			
LCS Analyzed: 12/27/2012 (12L1011-BS1)											
Dichlorodifluoromethane	21.2	1.0	N/A	ug/l	25.0		85	46-144			
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			
LCS Dup Analyzed: 12/27/2012 (12L1011-BSD1)											
Dichlorodifluoromethane	23.8	1.0	N/A	ug/l	25.0		95	46-144	11	23	
Surrogate: Dibromofluoromethane	25.8			ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	26.7			ug/l	25.0		107	70-130			
Surrogate: 4-Bromofluorobenzene	25.3			ug/l	25.0		101	70-130			
Matrix Spike Analyzed: 12/27/2012 (12L1011-MS1)											
						Source: PVL1352-03					
Dichlorodifluoromethane	19.6	1.0	N/A	ug/l	25.0	ND	78	40-148			
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	70-130			
Surrogate: Toluene-d8	27.3			ug/l	25.0		109	70-130			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			
Matrix Spike Dup Analyzed: 12/27/2012 (12L1011-MSD1)											
						Source: PVL1352-03					
Dichlorodifluoromethane	19.8	1.0	N/A	ug/l	25.0	ND	79	40-148	1	35	
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	70-130			
Surrogate: Toluene-d8	27.1			ug/l	25.0		108	70-130			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			

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Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Blank Analyzed: 12/27/2012 (12L1011-BLK1)											
1,1,1-Trichloroethane	ND	1.0	N/A	ug/l							
1,1,2,2-Tetrachloroethane	ND	1.0	N/A	ug/l							
1,1,2-Trichloroethane	ND	1.0	N/A	ug/l							
1,1-Dichloroethane	ND	1.0	N/A	ug/l							
1,1-Dichloroethene	ND	1.0	N/A	ug/l							
1,2-Dichlorobenzene	ND	1.0	N/A	ug/l							
1,2-Dichloroethane	ND	1.0	N/A	ug/l							
1,2-Dichloropropane	ND	1.0	N/A	ug/l							
1,3-Dichlorobenzene	ND	1.0	N/A	ug/l							
1,4-Dichlorobenzene	ND	1.0	N/A	ug/l							
Benzene	ND	1.0	N/A	ug/l							
Bromodichloromethane	ND	1.0	N/A	ug/l							
Bromoform	ND	1.0	N/A	ug/l							
Bromomethane	ND	5.0	N/A	ug/l							
Carbon tetrachloride	ND	1.0	N/A	ug/l							
Chlorobenzene	ND	1.0	N/A	ug/l							
Chloroethane	ND	1.0	N/A	ug/l							
Chloroform	ND	1.0	N/A	ug/l							
Chloromethane	ND	5.0	N/A	ug/l							
cis-1,3-Dichloropropene	ND	1.0	N/A	ug/l							
Dibromochloromethane	ND	1.0	N/A	ug/l							
Ethylbenzene	ND	1.0	N/A	ug/l							
Methylene Chloride	ND	2.0	N/A	ug/l							
Tetrachloroethene	ND	1.0	N/A	ug/l							
Toluene	ND	1.0	N/A	ug/l							
trans-1,2-Dichloroethene	ND	1.0	N/A	ug/l							
trans-1,3-Dichloropropene	ND	1.0	N/A	ug/l							
Trichloroethene	ND	1.0	N/A	ug/l							
Trichlorofluoromethane	ND	1.0	N/A	ug/l							
Vinyl chloride	ND	1.0	N/A	ug/l							
Surrogate: 4-Bromofluorobenzene	24.7			ug/l	25.0		99	70-130			

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Blank Analyzed: 12/27/2012 (12L1011-BLK1)											
Surrogate: Dibromofluoromethane	26.8			ug/l	25.0		107	70-130			
Surrogate: Toluene-d8	25.7			ug/l	25.0		103	70-130			
LCS Analyzed: 12/27/2012 (12L1011-BS1)											
1,1,1-Trichloroethane	23.9	1.0	N/A	ug/l	25.0		95	52-162			
1,1,2,2-Tetrachloroethane	24.1	1.0	N/A	ug/l	25.0		96	46-157			
1,1,2-Trichloroethane	22.6	1.0	N/A	ug/l	25.0		90	52-150			
1,1-Dichloroethane	22.7	1.0	N/A	ug/l	25.0		91	59-155			
1,1-Dichloroethene	22.0	1.0	N/A	ug/l	25.0		88	5-234			
1,2-Dichlorobenzene	24.6	1.0	N/A	ug/l	25.0		98	18-190			
1,2-Dichloroethane	19.7	1.0	N/A	ug/l	25.0		79	49-155			
1,2-Dichloropropane	21.5	1.0	N/A	ug/l	25.0		86	5-210			
1,3-Dichlorobenzene	25.0	1.0	N/A	ug/l	25.0		100	59-156			
1,4-Dichlorobenzene	23.5	1.0	N/A	ug/l	25.0		94	18-190			
Benzene	23.9	1.0	N/A	ug/l	25.0		95	37-151			
Bromodichloromethane	22.4	1.0	N/A	ug/l	25.0		90	35-155			
Bromoform	23.0	1.0	N/A	ug/l	25.0		92	45-169			
Bromomethane	22.4	5.0	N/A	ug/l	25.0		89	5-242			
Carbon tetrachloride	25.4	1.0	N/A	ug/l	25.0		102	70-140			
Chlorobenzene	24.1	1.0	N/A	ug/l	25.0		97	37-160			
Chloroethane	20.4	1.0	N/A	ug/l	25.0		82	14-230			
Chloroform	21.1	1.0	N/A	ug/l	25.0		84	51-138			
Chloromethane	22.9	5.0	N/A	ug/l	25.0		92	5-273			
cis-1,3-Dichloropropene	22.2	1.0	N/A	ug/l	25.0		89	5-227			
Dibromochloromethane	22.1	1.0	N/A	ug/l	25.0		89	53-149			
Ethylbenzene	24.2	1.0	N/A	ug/l	25.0		97	37-162			
Methylene Chloride	20.5	2.0	N/A	ug/l	25.0		82	5-221			
Tetrachloroethene	24.2	1.0	N/A	ug/l	25.0		97	64-148			
Toluene	25.2	1.0	N/A	ug/l	25.0		101	47-150			
trans-1,2-Dichloroethene	23.6	1.0	N/A	ug/l	25.0		94	54-156			
trans-1,3-Dichloropropene	19.8	1.0	N/A	ug/l	25.0		79	17-183			
Trichloroethene	22.5	1.0	N/A	ug/l	25.0		90	71-157			

TestAmerica Phoenix

Kylie Emily
 Project Manager

APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
LCS Analyzed: 12/27/2012 (12L1011-BS1)											
Trichlorofluoromethane	24.3	1.0	N/A	ug/l	25.0		97	17-181			
Vinyl chloride	21.9	1.0	N/A	ug/l	25.0		87	5-251			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			
Surrogate: Dibromofluoromethane	25.6			ug/l	25.0		102	70-130			
Surrogate: Toluene-d8	27.0			ug/l	25.0		108	70-130			
LCS Dup Analyzed: 12/27/2012 (12L1011-BSD1)											
1,1,1-Trichloroethane	27.5	1.0	N/A	ug/l	25.0		110	52-162	14	20	
1,1,2,2-Tetrachloroethane	27.6	1.0	N/A	ug/l	25.0		110	46-157	13	20	
1,1,2-Trichloroethane	26.2	1.0	N/A	ug/l	25.0		105	52-150	15	20	
1,1-Dichloroethane	25.7	1.0	N/A	ug/l	25.0		103	59-155	12	20	
1,1-Dichloroethene	24.7	1.0	N/A	ug/l	25.0		99	5-234	11	20	
1,2-Dichlorobenzene	27.5	1.0	N/A	ug/l	25.0		110	18-190	11	20	
1,2-Dichloroethane	22.9	1.0	N/A	ug/l	25.0		92	49-155	15	20	
1,2-Dichloropropane	24.9	1.0	N/A	ug/l	25.0		100	5-210	15	20	
1,3-Dichlorobenzene	26.6	1.0	N/A	ug/l	25.0		106	59-156	6	20	
1,4-Dichlorobenzene	26.3	1.0	N/A	ug/l	25.0		105	18-190	11	20	
Benzene	26.4	1.0	N/A	ug/l	25.0		106	37-151	10	20	
Bromodichloromethane	25.1	1.0	N/A	ug/l	25.0		100	35-155	11	20	
Bromoform	26.3	1.0	N/A	ug/l	25.0		105	45-169	13	20	
Bromomethane	24.9	5.0	N/A	ug/l	25.0		100	5-242	11	20	
Carbon tetrachloride	27.4	1.0	N/A	ug/l	25.0		110	70-140	8	20	
Chlorobenzene	25.6	1.0	N/A	ug/l	25.0		102	37-160	6	20	
Chloroethane	23.9	1.0	N/A	ug/l	25.0		96	14-230	16	20	
Chloroform	24.0	1.0	N/A	ug/l	25.0		96	51-138	13	20	
Chloromethane	26.7	5.0	N/A	ug/l	25.0		107	5-273	15	20	
cis-1,3-Dichloropropene	25.0	1.0	N/A	ug/l	25.0		100	5-227	12	20	
Dibromochloromethane	24.3	1.0	N/A	ug/l	25.0		97	53-149	10	20	
Ethylbenzene	26.0	1.0	N/A	ug/l	25.0		104	37-162	7	20	
Methylene Chloride	24.4	2.0	N/A	ug/l	25.0		98	5-221	17	20	
Tetrachloroethene	27.6	1.0	N/A	ug/l	25.0		111	64-148	13	20	
Toluene	27.4	1.0	N/A	ug/l	25.0		109	47-150	8	20	

TestAmerica Phoenix

Kylie Emily
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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
LCS Dup Analyzed: 12/27/2012 (12L1011-BSD1)											
trans-1,2-Dichloroethene	27.2	1.0	N/A	ug/l	25.0		109	54-156	14	20	
trans-1,3-Dichloropropene	23.0	1.0	N/A	ug/l	25.0		92	17-183	15	20	
Trichloroethene	25.5	1.0	N/A	ug/l	25.0		102	71-157	12	20	
Trichlorofluoromethane	28.4	1.0	N/A	ug/l	25.0		113	17-181	15	20	
Vinyl chloride	24.6	1.0	N/A	ug/l	25.0		99	5-251	12	20	
Surrogate: 4-Bromofluorobenzene	25.3			ug/l	25.0		101	70-130			
Surrogate: Dibromofluoromethane	25.8			ug/l	25.0		103	70-130			
Surrogate: Toluene-d8	26.7			ug/l	25.0		107	70-130			
Matrix Spike Analyzed: 12/27/2012 (12L1011-MS1)											
Source: PVL1352-03											
1,1,1-Trichloroethane	23.0	1.0	N/A	ug/l	25.0	ND	92	52-162			
1,1,2,2-Tetrachloroethane	23.4	1.0	N/A	ug/l	25.0	ND	94	46-157			
1,1,2-Trichloroethane	22.6	1.0	N/A	ug/l	25.0	ND	90	52-150			
1,1-Dichloroethane	22.2	1.0	N/A	ug/l	25.0	ND	89	59-155			
1,1-Dichloroethene	20.5	1.0	N/A	ug/l	25.0	ND	82	5-234			
1,2-Dichlorobenzene	23.5	1.0	N/A	ug/l	25.0	ND	94	18-190			
1,2-Dichloroethane	19.5	1.0	N/A	ug/l	25.0	ND	78	49-155			
1,2-Dichloropropane	21.1	1.0	N/A	ug/l	25.0	ND	85	5-210			
1,3-Dichlorobenzene	23.3	1.0	N/A	ug/l	25.0	ND	93	59-156			
1,4-Dichlorobenzene	23.7	1.0	N/A	ug/l	25.0	ND	95	18-190			
Benzene	23.7	1.0	N/A	ug/l	25.0	ND	95	37-151			
Bromodichloromethane	22.1	1.0	N/A	ug/l	25.0	ND	88	35-155			
Bromoform	22.8	1.0	N/A	ug/l	25.0	ND	91	45-169			
Bromomethane	20.8	5.0	N/A	ug/l	25.0	ND	83	5-242			
Carbon tetrachloride	23.5	1.0	N/A	ug/l	25.0	ND	94	70-140			
Chlorobenzene	23.2	1.0	N/A	ug/l	25.0	ND	93	37-160			
Chloroethane	20.4	1.0	N/A	ug/l	25.0	ND	82	14-230			
Chloroform	21.8	1.0	N/A	ug/l	25.0	1.20	82	51-138			
Chloromethane	22.3	5.0	N/A	ug/l	25.0	ND	89	5-273			
cis-1,3-Dichloropropene	21.4	1.0	N/A	ug/l	25.0	ND	86	5-227			
Dibromochloromethane	21.9	1.0	N/A	ug/l	25.0	ND	87	53-149			
Ethylbenzene	23.0	1.0	N/A	ug/l	25.0	ND	92	37-162			

TestAmerica Phoenix

Kylie Emily
 Project Manager

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PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Matrix Spike Analyzed: 12/27/2012 (12L1011-MS1)						Source: PVL1352-03					
Methylene Chloride	20.5	2.0	N/A	ug/l	25.0	ND	82	5-221			
Tetrachloroethene	25.1	1.0	N/A	ug/l	25.0	ND	100	64-148			
Toluene	24.1	1.0	N/A	ug/l	25.0	ND	96	47-150			
trans-1,2-Dichloroethene	22.6	1.0	N/A	ug/l	25.0	ND	90	54-156			
trans-1,3-Dichloropropene	19.0	1.0	N/A	ug/l	25.0	ND	76	17-183			
Trichloroethene	21.9	1.0	N/A	ug/l	25.0	ND	88	71-157			
Trichlorofluoromethane	23.0	1.0	N/A	ug/l	25.0	ND	92	17-181			
Vinyl chloride	20.3	1.0	N/A	ug/l	25.0	ND	81	5-251			
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			
Surrogate: Dibromofluoromethane	26.4			ug/l	25.0		106	70-130			
Surrogate: Toluene-d8	27.3			ug/l	25.0		109	70-130			
Matrix Spike Dup Analyzed: 12/27/2012 (12L1011-MSD1)						Source: PVL1352-03					
1,1,1-Trichloroethane	22.4	1.0	N/A	ug/l	25.0	ND	90	52-162	3	20	
1,1,2,2-Tetrachloroethane	24.8	1.0	N/A	ug/l	25.0	ND	99	46-157	6	20	
1,1,2-Trichloroethane	22.9	1.0	N/A	ug/l	25.0	ND	92	52-150	2	20	
1,1-Dichloroethane	20.9	1.0	N/A	ug/l	25.0	ND	84	59-155	6	20	
1,1-Dichloroethene	20.0	1.0	N/A	ug/l	25.0	ND	80	5-234	2	20	
1,2-Dichlorobenzene	25.2	1.0	N/A	ug/l	25.0	ND	101	18-190	7	20	
1,2-Dichloroethane	19.1	1.0	N/A	ug/l	25.0	ND	77	49-155	2	20	
1,2-Dichloropropane	21.5	1.0	N/A	ug/l	25.0	ND	86	5-210	2	20	
1,3-Dichlorobenzene	24.4	1.0	N/A	ug/l	25.0	ND	98	59-156	4	20	
1,4-Dichlorobenzene	24.2	1.0	N/A	ug/l	25.0	ND	97	18-190	2	20	
Benzene	23.2	1.0	N/A	ug/l	25.0	ND	93	37-151	2	20	
Bromodichloromethane	22.4	1.0	N/A	ug/l	25.0	ND	89	35-155	1	20	
Bromoform	23.7	1.0	N/A	ug/l	25.0	ND	95	45-169	4	20	
Bromomethane	20.9	5.0	N/A	ug/l	25.0	ND	84	5-242	0.5	20	
Carbon tetrachloride	25.1	1.0	N/A	ug/l	25.0	ND	101	70-140	7	20	
Chlorobenzene	24.0	1.0	N/A	ug/l	25.0	ND	96	37-160	3	20	
Chloroethane	19.6	1.0	N/A	ug/l	25.0	ND	79	14-230	4	20	
Chloroform	21.1	1.0	N/A	ug/l	25.0	1.20	80	51-138	3	20	
Chloromethane	21.1	5.0	N/A	ug/l	25.0	ND	84	5-273	5	20	

TestAmerica Phoenix

Kylie Emily
 Project Manager

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS (EPA 624)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Matrix Spike Dup Analyzed: 12/27/2012 (12L1011-MSD1)						Source: PVL1352-03					
cis-1,3-Dichloropropene	21.4	1.0	N/A	ug/l	25.0	ND	86	5-227	0	20	
Dibromochloromethane	22.9	1.0	N/A	ug/l	25.0	ND	92	53-149	5	20	
Ethylbenzene	24.1	1.0	N/A	ug/l	25.0	ND	96	37-162	5	20	
Methylene Chloride	19.2	2.0	N/A	ug/l	25.0	ND	77	5-221	7	20	
Tetrachloroethene	25.7	1.0	N/A	ug/l	25.0	ND	103	64-148	2	20	
Toluene	24.0	1.0	N/A	ug/l	25.0	ND	96	47-150	0.5	20	
trans-1,2-Dichloroethene	22.4	1.0	N/A	ug/l	25.0	ND	90	54-156	0.8	20	
trans-1,3-Dichloropropene	20.0	1.0	N/A	ug/l	25.0	ND	80	17-183	5	20	
Trichloroethene	22.0	1.0	N/A	ug/l	25.0	ND	88	71-157	0.5	20	
Trichlorofluoromethane	22.6	1.0	N/A	ug/l	25.0	ND	91	17-181	2	20	
Vinyl chloride	20.6	1.0	N/A	ug/l	25.0	ND	82	5-251	1	20	
Surrogate: 4-Bromofluorobenzene	25.8			ug/l	25.0		103	70-130			
Surrogate: Dibromofluoromethane	25.0			ug/l	25.0		100	70-130			
Surrogate: Toluene-d8	27.1			ug/l	25.0		108	70-130			

TestAmerica Phoenix

Kylie Emily
 Project Manager

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METHOD BLANK/QC DATA

PURGEABLES BY GC/MS, TENTATIVELY IDENTIFIED COMPOUNDS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	Limit	Data Qualifiers
Batch: 12L1011 Extracted: 12/27/12											
Blank Analyzed: 12/27/2012 (12L1011-BLK1)											
bis(chloromethyl) ether	ND	NA	N/A	ug/l							T7
Tentatively Identified Compounds	ND	10	N/A	ug/l							

TestAmerica Phoenix

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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
Blank Analyzed: 12/28/2012 (12L0874-BLK1)											
n-Nitrosodimethylamine	ND	10	N/A	ug/l							
Bis(2-chloroethyl)ether	ND	10	N/A	ug/l							
Phenol	ND	10	N/A	ug/l							
2-Chlorophenol	ND	10	N/A	ug/l							
Bis(2-chloroisopropyl)ether	ND	10	N/A	ug/l							
Hexachloroethane	ND	10	N/A	ug/l							
n-Nitroso-di-n-propylamine	ND	10	N/A	ug/l							
Nitrobenzene	ND	10	N/A	ug/l							
Isophorone	ND	10	N/A	ug/l							
2-Nitrophenol	ND	15	N/A	ug/l							
2,4-Dimethylphenol	ND	10	N/A	ug/l							
Bis(2-chloroethoxy)methane	ND	10	N/A	ug/l							
2,4-Dichlorophenol	ND	10	N/A	ug/l							
1,2,4-Trichlorobenzene	ND	10	N/A	ug/l							
Naphthalene	ND	10	N/A	ug/l							
Hexachlorobutadiene	ND	10	N/A	ug/l							
4-Chloro-3-methylphenol	ND	10	N/A	ug/l							
Hexachlorocyclopentadiene	ND	10	N/A	ug/l							
2,4,6-Trichlorophenol	ND	10	N/A	ug/l							
2-Chloronaphthalene	ND	10	N/A	ug/l							
Acenaphthylene	ND	10	N/A	ug/l							
Dimethyl phthalate	ND	20	N/A	ug/l							
2,6-Dinitrotoluene	ND	10	N/A	ug/l							C
Acenaphthene	ND	10	N/A	ug/l							
2,4-Dinitrophenol	ND	50	N/A	ug/l							C
2,4-Dinitrotoluene	ND	10	N/A	ug/l							C
4-Nitrophenol	ND	25	N/A	ug/l							
Fluorene	ND	10	N/A	ug/l							
4-Chlorophenyl phenyl ether	ND	10	N/A	ug/l							
Diethyl phthalate	ND	10	N/A	ug/l							
4,6-Dinitro-2-methylphenol	ND	50	N/A	ug/l							C

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ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
Blank Analyzed: 12/28/2012 (12L0874-BLK1)											
n-Nitrosodiphenylamine	ND	10	N/A	ug/l							
1,2-Diphenylhydrazine (as Azobenzene)	ND	10	N/A	ug/l							
4-Bromophenyl phenyl ether	ND	10	N/A	ug/l							
Hexachlorobenzene	ND	10	N/A	ug/l							
Pentachlorophenol	ND	50	N/A	ug/l							
Phenanthrene	ND	10	N/A	ug/l							
Anthracene	ND	10	N/A	ug/l							
Di-n-butyl phthalate	ND	10	N/A	ug/l							
Fluoranthene	ND	10	N/A	ug/l							
Benzidine	ND	50	N/A	ug/l							
Pyrene	ND	10	N/A	ug/l							
Butyl benzyl phthalate	ND	10	N/A	ug/l							
3,3-Dichlorobenzidine	ND	10	N/A	ug/l							
Benanthracene	ND	10	N/A	ug/l							
Chrysene	ND	10	N/A	ug/l							
Bis(2-ethylhexyl)phthalate	ND	10	N/A	ug/l							
Di-n-octyl phthalate	ND	10	N/A	ug/l							
Benzo(b)fluoranthene	ND	10	N/A	ug/l							
Benzo(k)fluoranthene	ND	10	N/A	ug/l							
Benzo(a)pyrene	ND	10	N/A	ug/l							
Indeno(1,2,3-cd)pyrene	ND	10	N/A	ug/l							
Dibenz(a,h)anthracene	ND	10	N/A	ug/l							
Benzo(g,h,i)perylene	ND	10	N/A	ug/l							
n-Decane (C10)	ND	15	N/A	ug/l							
1,3-Dichlorobenzene	ND	10	N/A	ug/l							T4
1,4-Dichlorobenzene	ND	10	N/A	ug/l							T4
1,2-Dichlorobenzene	ND	10	N/A	ug/l							T4
Benzyl alcohol	ND	10	N/A	ug/l							T4
2-Methylphenol	ND	10	N/A	ug/l							
3&4-Methylphenol	ND	10	N/A	ug/l							
n-Octadecane (C18)	ND	15	N/A	ug/l							

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ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
Blank Analyzed: 12/28/2012 (12L0874-BLK1)											
Carbazole	ND	10	N/A	ug/l							
Surrogate: 2-Fluorophenol	53.1			ug/l	100		53	10-78			
Surrogate: Phenol-d6	31.4			ug/l	100		31	10-51			
Surrogate: Nitrobenzene-d5	86.6			ug/l	100		87	22-116			
Surrogate: 2-Fluorobiphenyl	76.3			ug/l	100		76	40-91			
Surrogate: 2,4,6-Tribromophenol	87.9			ug/l	100		88	14-122			
Surrogate: 4-Terphenyl-d14	54.0			ug/l	100		54	10-117			
LCS Analyzed: 12/28/2012 (12L0874-BS1)											
n-Nitrosodimethylamine	49.3	10	N/A	ug/l	80.0		62	37-77			M16
Bis(2-chloroethyl)ether	59.6	10	N/A	ug/l	80.0		74	12-158			
Phenol	30.9	10	N/A	ug/l	80.0		39	10-112			
2-Chlorophenol	58.9	10	N/A	ug/l	80.0		74	23-134			
Bis(2-chloroisopropyl)ether	52.7	10	N/A	ug/l	80.0		66	36-166			
Hexachloroethane	79.9	10	N/A	ug/l	120		67	40-113			
n-Nitroso-di-n-propylamine	56.8	10	N/A	ug/l	80.0		71	10-230			
Nitrobenzene	69.6	10	N/A	ug/l	80.0		87	35-180			
Isophorone	48.2	10	N/A	ug/l	80.0		60	21-196			
2-Nitrophenol	75.3	15	N/A	ug/l	80.0		94	29-182			
2,4-Dimethylphenol	59.7	10	N/A	ug/l	80.0		75	32-119			
Bis(2-chloroethoxy)methane	65.8	10	N/A	ug/l	80.0		82	33-184			
2,4-Dichlorophenol	68.9	10	N/A	ug/l	80.0		86	39-135			
1,2,4-Trichlorobenzene	92.1	10	N/A	ug/l	120		77	44-142			
Naphthalene	64.7	10	N/A	ug/l	80.0		81	21-133			
Hexachlorobutadiene	58.6	10	N/A	ug/l	80.0		73	24-116			
4-Chloro-3-methylphenol	66.3	10	N/A	ug/l	80.0		83	22-147			
Hexachlorocyclopentadiene	46.0	10	N/A	ug/l	80.0		58	17-73			
2,4,6-Trichlorophenol	67.7	10	N/A	ug/l	80.0		85	37-144			
2-Chloronaphthalene	97.0	10	N/A	ug/l	120		81	60-118			
Acenaphthylene	66.1	10	N/A	ug/l	80.0		83	33-145			
Dimethyl phthalate	102	20	N/A	ug/l	120		85	10-112			
2,6-Dinitrotoluene	77.3	10	N/A	ug/l	80.0		97	50-158			C

TestAmerica Phoenix

Kylie Emily
 Project Manager

APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Analyzed: 12/28/2012 (12L0874-BS1)											
Acenaphthene	67.0	10	N/A	ug/l	80.0		84	47-145			M16
2,4-Dinitrophenol	120	50	N/A	ug/l	120		100	10-191			C
2,4-Dinitrotoluene	78.0	10	N/A	ug/l	80.0		98	39-139			C
4-Nitrophenol	50.5	25	N/A	ug/l	120		42	10-132			
Fluorene	68.4	10	N/A	ug/l	80.0		85	59-121			
4-Chlorophenyl phenyl ether	69.8	10	N/A	ug/l	80.0		87	25-158			
Diethyl phthalate	68.3	10	N/A	ug/l	80.0		85	10-114			
4,6-Dinitro-2-methylphenol	124	50	N/A	ug/l	120		103	10-181			C
n-Nitrosodiphenylamine	61.3	10	N/A	ug/l	80.0		77	50-100			
1,2-Diphenylhydrazine (as Azobenzene)	62.8	10	N/A	ug/l	80.0		78	60-108			
4-Bromophenyl phenyl ether	72.3	10	N/A	ug/l	80.0		90	53-127			
Hexachlorobenzene	71.6	10	N/A	ug/l	80.0		89	10-152			
Pentachlorophenol	103	50	N/A	ug/l	120		86	14-176			
Phenanthrene	70.1	10	N/A	ug/l	80.0		88	54-120			
Anthracene	67.7	10	N/A	ug/l	80.0		85	27-133			
Di-n-butyl phthalate	69.5	10	N/A	ug/l	80.0		87	10-118			
Fluoranthene	72.5	10	N/A	ug/l	80.0		91	26-137			
Benzidine	88.1	50	N/A	ug/l	120		73	10-102			
Pyrene	69.6	10	N/A	ug/l	80.0		87	52-115			
Butyl benzyl phthalate	67.7	10	N/A	ug/l	80.0		85	10-152			
3,3-Dichlorobenzidine	66.9	10	N/A	ug/l	80.0		84	10-262			
Benzanthracene	69.1	10	N/A	ug/l	80.0		86	33-143			
Chrysene	69.6	10	N/A	ug/l	80.0		87	17-168			
Bis(2-ethylhexyl)phthalate	68.4	10	N/A	ug/l	80.0		86	10-158			
Di-n-octyl phthalate	66.2	10	N/A	ug/l	80.0		83	10-146			
Benzo(b)fluoranthene	64.5	10	N/A	ug/l	80.0		81	24-159			
Benzo(k)fluoranthene	70.5	10	N/A	ug/l	80.0		88	11-162			
Benzo(a)pyrene	68.4	10	N/A	ug/l	80.0		86	17-163			
Indeno(1,2,3-cd)pyrene	75.7	10	N/A	ug/l	80.0		95	10-171			
Dibenz(a,h)anthracene	74.8	10	N/A	ug/l	80.0		94	10-227			
Benzo(g,h,i)perylene	75.8	10	N/A	ug/l	80.0		95	10-219			

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Report Number: PVL1364

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 Received: 12/20/12

METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Analyzed: 12/28/2012 (12L0874-BS1)											
n-Decane (C10)	64.0	15	N/A	ug/l	120		53	10-88			M16
1,3-Dichlorobenzene	56.7	10	N/A	ug/l	80.0		71	10-172			T4
1,4-Dichlorobenzene	56.7	10	N/A	ug/l	80.0		71	20-124			T4
1,2-Dichlorobenzene	58.1	10	N/A	ug/l	80.0		73	32-129			T4
Benzyl alcohol	54.7	10	N/A	ug/l	80.0		68	50-98			T4
2-Methylphenol	54.0	10	N/A	ug/l	80.0		67	51-92			
3&4-Methylphenol	51.8	10	N/A	ug/l	80.0		65	46-89			
n-Octadecane (C18)	59.7	15	N/A	ug/l	120		50	11-98			
Carbazole	70.7	10	N/A	ug/l	80.0		88	60-115			
Surrogate: 2-Fluorophenol	53.7			ug/l	100		54	32-66			
Surrogate: Phenol-d6	32.9			ug/l	100		33	20-46			
Surrogate: Nitrobenzene-d5	87.9			ug/l	100		88	48-101			
Surrogate: 2-Fluorobiphenyl	78.4			ug/l	100		78	44-94			
Surrogate: 2,4,6-Tribromophenol	89.2			ug/l	100		89	51-110			
Surrogate: 4-Terphenyl-d14	56.0			ug/l	100		56	10-113			
LCS Dup Analyzed: 12/28/2012 (12L0874-BS1)											
n-Nitrosodimethylamine	47.7	10	N/A	ug/l	80.0		60	37-77	3	31	M16
Bis(2-chloroethyl)ether	60.3	10	N/A	ug/l	80.0		75	12-158	1	21	
Phenol	30.1	10	N/A	ug/l	80.0		38	10-112	3	30	
2-Chlorophenol	59.2	10	N/A	ug/l	80.0		74	23-134	0.5	20	
Bis(2-chloroisopropyl)ether	53.2	10	N/A	ug/l	80.0		66	36-166	0.9	20	
Hexachloroethane	69.6	10	N/A	ug/l	120		58	40-113	14	31	
n-Nitroso-di-n-propylamine	57.6	10	N/A	ug/l	80.0		72	10-230	1	22	
Nitrobenzene	70.0	10	N/A	ug/l	80.0		87	35-180	0.5	20	
Isophorone	48.6	10	N/A	ug/l	80.0		61	21-196	0.8	20	
2-Nitrophenol	76.3	15	N/A	ug/l	80.0		95	29-182	1	20	
2,4-Dimethylphenol	61.2	10	N/A	ug/l	80.0		76	32-119	2	20	
Bis(2-chloroethoxy)methane	66.9	10	N/A	ug/l	80.0		84	33-184	2	21	
2,4-Dichlorophenol	70.6	10	N/A	ug/l	80.0		88	39-135	2	20	
1,2,4-Trichlorobenzene	88.3	10	N/A	ug/l	120		74	44-142	4	23	
Naphthalene	63.9	10	N/A	ug/l	80.0		80	21-133	1	20	

TestAmerica Phoenix

Kylie Emily
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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Dup Analyzed: 12/28/2012 (12L0874-BSD1)											M16
Hexachlorobutadiene	56.9	10	N/A	ug/l	80.0	71	24-116	3	34		
4-Chloro-3-methylphenol	67.1	10	N/A	ug/l	80.0	84	22-147	1	20		
Hexachlorocyclopentadiene	47.5	10	N/A	ug/l	80.0	59	17-73	3	32		
2,4,6-Trichlorophenol	69.9	10	N/A	ug/l	80.0	87	37-144	3	20		
2-Chloronaphthalene	97.7	10	N/A	ug/l	120	81	60-118	0.7	21		
Acenaphthylene	66.8	10	N/A	ug/l	80.0	84	33-145	1	20		
Dimethyl phthalate	104	20	N/A	ug/l	120	87	10-112	3	20		
2,6-Dinitrotoluene	80.5	10	N/A	ug/l	80.0	101	50-158	4	20		C
Acenaphthene	67.2	10	N/A	ug/l	80.0	84	47-145	0.4	20		
2,4-Dinitrophenol	122	50	N/A	ug/l	120	101	10-191	1	35		C
2,4-Dinitrotoluene	79.2	10	N/A	ug/l	80.0	99	39-139	1	21		C
4-Nitrophenol	46.8	25	N/A	ug/l	120	39	10-132	8	27		
Fluorene	68.9	10	N/A	ug/l	80.0	86	59-121	0.8	20		
4-Chlorophenyl phenyl ether	71.9	10	N/A	ug/l	80.0	90	25-158	3	20		
Diethyl phthalate	68.2	10	N/A	ug/l	80.0	85	10-114	0.1	21		
4,6-Dinitro-2-methylphenol	130	50	N/A	ug/l	120	108	10-181	5	20		C
n-Nitrosodiphenylamine	62.5	10	N/A	ug/l	80.0	78	50-100	2	20		
1,2-Diphenylhydrazine (as Azobenzene)	64.0	10	N/A	ug/l	80.0	80	60-108	2	20		
4-Bromophenyl phenyl ether	73.8	10	N/A	ug/l	80.0	92	53-127	2	20		
Hexachlorobenzene	73.5	10	N/A	ug/l	80.0	92	10-152	3	20		
Pentachlorophenol	106	50	N/A	ug/l	120	88	14-176	3	20		
Phenanthrene	71.1	10	N/A	ug/l	80.0	89	54-120	1	20		
Anthracene	69.7	10	N/A	ug/l	80.0	87	27-133	3	20		
Di-n-butyl phthalate	70.3	10	N/A	ug/l	80.0	88	10-118	1	20		
Fluoranthene	73.0	10	N/A	ug/l	80.0	91	26-137	0.7	20		
Benzidine	94.6	50	N/A	ug/l	120	79	10-102	7	35		
Pyrene	71.7	10	N/A	ug/l	80.0	90	52-115	3	20		
Butyl benzyl phthalate	70.1	10	N/A	ug/l	80.0	88	10-152	4	20		
3,3-Dichlorobenzidine	68.7	10	N/A	ug/l	80.0	86	10-262	3	20		
Benanthracene	70.3	10	N/A	ug/l	80.0	88	33-143	2	20		
Chrysene	71.0	10	N/A	ug/l	80.0	89	17-168	2	20		

TestAmerica Phoenix

Kylie Emily
 Project Manager

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METHOD BLANK/QC DATA

ACID & BASE/NEUTRALS BY GC/MS (EPA 625)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Dup Analyzed: 12/28/2012 (12L0874-BSD1)											M16
Bis(2-ethylhexyl)phthalate	69.0	10	N/A	ug/l	80.0	86	10-158	0.8	20		
Di-n-octyl phthalate	66.7	10	N/A	ug/l	80.0	83	10-146	0.7	22		
Benzo(b)fluoranthene	64.5	10	N/A	ug/l	80.0	81	24-159	0	23		
Benzo(k)fluoranthene	72.0	10	N/A	ug/l	80.0	90	11-162	2	26		
Benzo(a)pyrene	70.3	10	N/A	ug/l	80.0	88	17-163	3	21		
Indeno(1,2,3-cd)pyrene	78.8	10	N/A	ug/l	80.0	98	10-171	4	25		
Dibenz(a,h)anthracene	77.9	10	N/A	ug/l	80.0	97	10-227	4	26		
Benzo(g,h,i)perylene	80.5	10	N/A	ug/l	80.0	101	10-219	6	27		
n-Decane (C10)	45.3	15	N/A	ug/l	120	38	10-88	34	35		
1,3-Dichlorobenzene	53.4	10	N/A	ug/l	80.0	67	10-172	6	30		T4
1,4-Dichlorobenzene	54.1	10	N/A	ug/l	80.0	68	20-124	5	28		T4
1,2-Dichlorobenzene	56.0	10	N/A	ug/l	80.0	70	32-129	4	25		T4
Benzyl alcohol	54.7	10	N/A	ug/l	80.0	68	50-98	0.04	29		T4
2-Methylphenol	54.4	10	N/A	ug/l	80.0	68	51-92	0.8	23		
3&4-Methylphenol	51.6	10	N/A	ug/l	80.0	64	46-89	0.4	22		
n-Octadecane (C18)	82.5	15	N/A	ug/l	120	69	11-98	32	34		
Carbazole	70.8	10	N/A	ug/l	80.0	88	60-115	0.1	34		
Surrogate: 2-Fluorophenol	50.9			ug/l	100	51	32-66				
Surrogate: Phenol-d6	31.3			ug/l	100	31	20-46				
Surrogate: Nitrobenzene-d5	89.1			ug/l	100	89	48-101				
Surrogate: 2-Fluorobiphenyl	76.5			ug/l	100	77	44-94				
Surrogate: 2,4,6-Tribromophenol	90.5			ug/l	100	91	51-110				
Surrogate: 4-Terphenyl-d14	52.1			ug/l	100	52	10-113				

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0950 Extracted: 12/26/12										
Blank Analyzed: 12/31/2012 (12L0950-BLK1)										
alpha-BHC	ND	0.050	N/A	ug/l						
gamma-BHC (Lindane)	ND	0.050	N/A	ug/l						
beta-BHC	ND	0.050	N/A	ug/l						
Heptachlor	ND	0.050	N/A	ug/l						
delta-BHC	ND	0.050	N/A	ug/l						
Aldrin	ND	0.050	N/A	ug/l						
Heptachlor epoxide	ND	0.050	N/A	ug/l						
Endosulfan I	ND	0.050	N/A	ug/l						
4,4'-DDE	ND	0.050	N/A	ug/l						
Dieldrin	ND	0.050	N/A	ug/l						
Endrin	ND	0.050	N/A	ug/l						
4,4'-DDD	ND	0.050	N/A	ug/l						
Endosulfan II	ND	0.050	N/A	ug/l						
4,4'-DDT	ND	0.050	N/A	ug/l						
Endrin aldehyde	ND	0.050	N/A	ug/l						
Endosulfan sulfate	ND	0.050	N/A	ug/l						
Toxaphene	ND	1.0	N/A	ug/l						
Chlordane	ND	0.50	N/A	ug/l						
Aroclor 1016	ND	1.0	N/A	ug/l						
Aroclor 1221	ND	1.0	N/A	ug/l						
Aroclor 1232	ND	1.0	N/A	ug/l						
Aroclor 1242	ND	1.0	N/A	ug/l						
Aroclor 1248	ND	1.0	N/A	ug/l						
Aroclor 1254	ND	1.0	N/A	ug/l						
Aroclor 1260	ND	1.0	N/A	ug/l						
Surrogate: Tetrachloro-m-xylene	0.812			ug/l	1.00		81		10-132	
Surrogate: Decachlorobiphenyl	0.427			ug/l	1.00		43		10-103	

TestAmerica Phoenix

Kylie Emily
 Project Manager

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METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0950 Extracted: 12/26/12											
LCS Analyzed: 12/31/2012 (12L0950-BS1)											
alpha-BHC	0.961	0.050	N/A	ug/l	1.00		96	37-134			MNR1
gamma-BHC (Lindane)	1.02	0.050	N/A	ug/l	1.00		102	32-127			
beta-BHC	0.990	0.050	N/A	ug/l	1.00		99	17-147			
Heptachlor	0.982	0.050	N/A	ug/l	1.00		98	34-111			
delta-BHC	0.988	0.050	N/A	ug/l	1.00		99	19-140			
Aldrin	0.980	0.050	N/A	ug/l	1.00		98	42-122			
Heptachlor epoxide	1.04	0.050	N/A	ug/l	1.00		104	37-142			
Endosulfan I	1.08	0.050	N/A	ug/l	1.00		108	45-153			
4,4'-DDE	0.965	0.050	N/A	ug/l	1.00		96	30-145			
Dieldrin	1.03	0.050	N/A	ug/l	1.00		103	36-146			
Endrin	1.01	0.050	N/A	ug/l	1.00		101	30-147			
4,4'-DDD	0.973	0.050	N/A	ug/l	1.00		97	31-141			
Endosulfan II	1.07	0.050	N/A	ug/l	1.00		107	5-150			
4,4'-DDT	0.958	0.050	N/A	ug/l	1.00		96	25-160			
Endrin aldehyde	1.08	0.050	N/A	ug/l	1.00		108	60-130			
Endosulfan sulfate	1.05	0.050	N/A	ug/l	1.00		105	25-144			
Surrogate: Tetrachloro- <i>m</i> -xylene	0.877			ug/l	1.00		88	39-132			
Surrogate: Decachlorobiphenyl	0.468			ug/l	1.00		47	10-81			
LCS Analyzed: 12/31/2012 (12L0950-BS2)											
Aroclor 1016	9.56	1.0	N/A	ug/l	10.0		96	50-114			
Aroclor 1260	10.8	1.0	N/A	ug/l	10.0		108	5-127			
Surrogate: Tetrachloro- <i>m</i> -xylene	0.881			ug/l	1.00		88	39-132			
Surrogate: Decachlorobiphenyl	0.364			ug/l	1.00		36	10-81			
LCS Dup Analyzed: 12/31/2012 (12L0950-BSD1)											
alpha-BHC	0.987	0.050	N/A	ug/l	1.00		99	37-134	3	28	
gamma-BHC (Lindane)	1.03	0.050	N/A	ug/l	1.00		103	32-127	1	28	
beta-BHC	1.00	0.050	N/A	ug/l	1.00		100	17-147	1	28	
Heptachlor	1.01	0.050	N/A	ug/l	1.00		101	34-111	3	33	
delta-BHC	0.997	0.050	N/A	ug/l	1.00		100	19-140	1	28	
Aldrin	1.02	0.050	N/A	ug/l	1.00		102	42-122	4	33	

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 Fruitland, NM 87416
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Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

ORGANOCHLORINE PESTICIDES AND PCBS BY GC (EPA 608)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0950 Extracted: 12/26/12											
LCS Dup Analyzed: 12/31/2012 (12L0950-BSD1)											MNR1
Heptachlor epoxide	1.05	0.050	N/A	ug/l	1.00	105	37-142	1	29		
Endosulfan I	1.09	0.050	N/A	ug/l	1.00	109	45-153	1	30		
4,4'-DDE	0.986	0.050	N/A	ug/l	1.00	99	30-145	2	35		
Dieldrin	1.04	0.050	N/A	ug/l	1.00	104	36-146	1	30		
Endrin	1.03	0.050	N/A	ug/l	1.00	103	30-147	2	35		
4,4'-DDD	0.993	0.050	N/A	ug/l	1.00	99	31-141	2	33		
Endosulfan II	1.09	0.050	N/A	ug/l	1.00	109	5-150	2	30		
4,4'-DDT	0.981	0.050	N/A	ug/l	1.00	98	25-160	2	35		
Endrin aldehyde	1.09	0.050	N/A	ug/l	1.00	109	60-130	1	30		
Endosulfan sulfate	1.08	0.050	N/A	ug/l	1.00	108	25-144	2	30		
Surrogate: Tetrachloro-m-xylene	0.891			ug/l	1.00	89	39-132				
Surrogate: Decachlorobiphenyl	0.912			ug/l	1.00	91	10-81				Z2

TestAmerica Phoenix

Kylie Emily
 Project Manager

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APS - Four Corners Power Plant
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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0919 Extracted: 12/26/12											
Blank Analyzed: 12/26/2012 (12L0919-BLK1)											
Mercury	ND	0.00020	N/A	mg/l							
LCS Analyzed: 12/26/2012 (12L0919-BS1)											
Mercury	0.00974	0.00020	N/A	mg/l	0.0100		97	85-115			
LCS Dup Analyzed: 12/26/2012 (12L0919-BSD1)											
Mercury	0.0100	0.00020	N/A	mg/l	0.0100		100	85-115	3	20	
Matrix Spike Analyzed: 12/26/2012 (12L0919-MS1)											
						Source: PVL1260-01					
Mercury	0.0104	0.00020	N/A	mg/l	0.0100	ND	104	70-130			
Matrix Spike Dup Analyzed: 12/26/2012 (12L0919-MSD1)											
						Source: PVL1260-01					
Mercury	0.0101	0.00020	N/A	mg/l	0.0100	ND	101	70-130	2	20	
Batch: 12L0971 Extracted: 12/27/12											
Blank Analyzed: 12/28/2012 (12L0971-BLK1)											
Aluminum	ND	0.20	N/A	mg/l							
Antimony	ND	0.040	N/A	mg/l							
Arsenic	ND	0.10	N/A	mg/l							
Barium	ND	0.010	N/A	mg/l							
Beryllium	ND	0.0010	N/A	mg/l							
Boron	ND	0.20	N/A	mg/l							
Cadmium	ND	0.0010	N/A	mg/l							
Chromium	ND	0.010	N/A	mg/l							
Cobalt	ND	0.040	N/A	mg/l							
Copper	ND	0.010	N/A	mg/l							
Iron	ND	0.10	N/A	mg/l							
Lead	ND	0.015	N/A	mg/l							
Magnesium	ND	2.0	N/A	mg/l							
Manganese	ND	0.010	N/A	mg/l							
Molybdenum	ND	0.010	N/A	mg/l							
Nickel	ND	0.010	N/A	mg/l							
Selenium	ND	0.10	N/A	mg/l							

TestAmerica Phoenix

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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0971 Extracted: 12/27/12										
Blank Analyzed: 12/28/2012 (12L0971-BLK1)										
Silver	ND	0.010	N/A	mg/l						
Thallium	ND	0.10	N/A	mg/l						
Tin	ND	0.10	N/A	mg/l						
Titanium	ND	0.10	N/A	mg/l						
Zinc	ND	0.050	N/A	mg/l						
LCS Analyzed: 12/28/2012 (12L0971-BS1)										
Aluminum	2.05	0.20	N/A	mg/l	2.00		103		85-115	
Antimony	0.993	0.040	N/A	mg/l	1.00		99		85-115	
Arsenic	0.990	0.10	N/A	mg/l	1.00		99		85-115	
Barium	0.994	0.010	N/A	mg/l	1.00		99		85-115	
Beryllium	0.984	0.0010	N/A	mg/l	1.00		98		85-115	
Boron	0.976	0.20	N/A	mg/l	1.00		98		85-115	
Cadmium	1.00	0.0010	N/A	mg/l	1.00		100		85-115	
Chromium	0.987	0.010	N/A	mg/l	1.00		99		85-115	
Cobalt	0.973	0.040	N/A	mg/l	1.00		97		85-115	
Copper	1.02	0.010	N/A	mg/l	1.00		102		85-115	
Iron	1.01	0.10	N/A	mg/l	1.00		101		85-115	
Lead	0.995	0.015	N/A	mg/l	1.00		99		85-115	
Magnesium	20.8	2.0	N/A	mg/l	21.0		99		85-115	
Manganese	0.998	0.010	N/A	mg/l	1.00		100		85-115	
Molybdenum	0.970	0.010	N/A	mg/l	1.00		97		85-115	
Nickel	0.976	0.010	N/A	mg/l	1.00		98		85-115	
Selenium	0.990	0.10	N/A	mg/l	1.00		99		85-115	
Silver	0.0756	0.010	N/A	mg/l	0.0750		101		85-115	
Thallium	1.04	0.10	N/A	mg/l	1.00		104		85-115	
Tin	1.01	0.10	N/A	mg/l	1.00		101		85-115	
Titanium	0.985	0.10	N/A	mg/l	1.00		98		85-115	
Zinc	0.999	0.050	N/A	mg/l	1.00		100		85-115	

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Kylie Emily
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METHOD BLANK/QC DATA

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0971 Extracted: 12/27/12											
LCS Dup Analyzed: 12/28/2012 (12L0971-BSD1)											
Aluminum	2.06	0.20	N/A	mg/l	2.00		103	85-115	0.1	20	
Antimony	1.02	0.040	N/A	mg/l	1.00		102	85-115	3	20	
Arsenic	1.02	0.10	N/A	mg/l	1.00		102	85-115	3	20	
Barium	1.02	0.010	N/A	mg/l	1.00		102	85-115	3	20	
Beryllium	1.01	0.0010	N/A	mg/l	1.00		101	85-115	3	20	
Boron	1.01	0.20	N/A	mg/l	1.00		101	85-115	4	20	
Cadmium	1.04	0.0010	N/A	mg/l	1.00		104	85-115	3	20	
Chromium	1.02	0.010	N/A	mg/l	1.00		102	85-115	3	20	
Cobalt	1.00	0.040	N/A	mg/l	1.00		100	85-115	3	20	
Copper	1.05	0.010	N/A	mg/l	1.00		105	85-115	3	20	
Iron	1.02	0.10	N/A	mg/l	1.00		102	85-115	2	20	
Lead	1.03	0.015	N/A	mg/l	1.00		103	85-115	3	20	
Magnesium	21.2	2.0	N/A	mg/l	21.0		101	85-115	2	20	
Manganese	1.03	0.010	N/A	mg/l	1.00		103	85-115	3	20	
Molybdenum	1.01	0.010	N/A	mg/l	1.00		101	85-115	4	20	
Nickel	1.01	0.010	N/A	mg/l	1.00		101	85-115	3	20	
Selenium	1.02	0.10	N/A	mg/l	1.00		102	85-115	3	20	
Silver	0.0782	0.010	N/A	mg/l	0.0750		104	85-115	3	20	
Thallium	1.10	0.10	N/A	mg/l	1.00		110	85-115	5	20	
Tin	1.05	0.10	N/A	mg/l	1.00		105	85-115	4	20	
Titanium	1.01	0.10	N/A	mg/l	1.00		101	85-115	3	20	
Zinc	1.03	0.050	N/A	mg/l	1.00		103	85-115	3	20	

Matrix Spike Analyzed: 12/28/2012 (12L0971-MS1)

Source: PVL1364-06

Aluminum	2.52	0.20	N/A	mg/l	2.00	0.275	112	70-130			
Antimony	1.05	0.040	N/A	mg/l	1.00	ND	105	70-130			
Arsenic	1.07	0.10	N/A	mg/l	1.00	ND	107	70-130			
Barium	1.23	0.010	N/A	mg/l	1.00	0.207	102	70-130			
Beryllium	1.02	0.0010	N/A	mg/l	1.00	ND	102	70-130			
Boron	1.85	0.20	N/A	mg/l	1.00	0.807	105	70-130			
Cadmium	1.04	0.0010	N/A	mg/l	1.00	ND	104	70-130			

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TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0971 Extracted: 12/27/12											
Matrix Spike Analyzed: 12/28/2012 (12L0971-MS1)						Source: PVL1364-06					
Chromium	1.01	0.010	N/A	mg/l	1.00	ND	101	70-130			
Cobalt	0.999	0.040	N/A	mg/l	1.00	ND	100	70-130			
Copper	1.08	0.010	N/A	mg/l	1.00	ND	108	70-130			
Iron	1.26	0.10	N/A	mg/l	1.00	0.216	104	70-130			
Lead	1.03	0.015	N/A	mg/l	1.00	ND	103	70-130			
Magnesium	54.0	2.0	N/A	mg/l	21.0	33.1	99	70-130			
Manganese	1.06	0.010	N/A	mg/l	1.00	0.0338	102	70-130			
Molybdenum	1.03	0.010	N/A	mg/l	1.00	0.0318	100	70-130			
Nickel	0.998	0.010	N/A	mg/l	1.00	ND	100	70-130			
Selenium	1.06	0.10	N/A	mg/l	1.00	0.0193	104	70-130			
Silver	0.0782	0.010	N/A	mg/l	0.0750	ND	104	70-130			
Thallium	1.06	0.10	N/A	mg/l	1.00	ND	106	70-130			
Tin	1.06	0.10	N/A	mg/l	1.00	0.492	57	70-130			M2a
Titanium	1.05	0.10	N/A	mg/l	1.00	0.0184	103	70-130			
Zinc	1.03	0.050	N/A	mg/l	1.00	0.0104	102	70-130			

Matrix Spike Dup Analyzed: 12/28/2012 (12L0971-MSD1)

Source: PVL1364-06

Aluminum	2.58	0.20	N/A	mg/l	2.00	0.275	115	70-130	3	20	
Antimony	1.04	0.040	N/A	mg/l	1.00	ND	104	70-130	0.8	20	
Arsenic	1.06	0.10	N/A	mg/l	1.00	ND	106	70-130	0.3	20	
Barium	1.24	0.010	N/A	mg/l	1.00	0.207	103	70-130	1	20	
Beryllium	1.02	0.0010	N/A	mg/l	1.00	ND	102	70-130	0.05	20	
Boron	1.88	0.20	N/A	mg/l	1.00	0.807	108	70-130	2	20	
Cadmium	1.05	0.0010	N/A	mg/l	1.00	ND	105	70-130	0.5	20	
Chromium	1.02	0.010	N/A	mg/l	1.00	ND	102	70-130	0.9	20	
Cobalt	1.01	0.040	N/A	mg/l	1.00	ND	101	70-130	0.6	20	
Copper	1.09	0.010	N/A	mg/l	1.00	ND	109	70-130	0.3	20	
Iron	1.28	0.10	N/A	mg/l	1.00	0.216	106	70-130	2	20	
Lead	1.03	0.015	N/A	mg/l	1.00	ND	103	70-130	0.8	20	
Magnesium	55.1	2.0	N/A	mg/l	21.0	33.1	105	70-130	2	20	
Manganese	1.05	0.010	N/A	mg/l	1.00	0.0338	102	70-130	0.4	20	

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TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0971 Extracted: 12/27/12											
Matrix Spike Dup Analyzed: 12/28/2012 (12L0971-MSD1)						Source: PVL1364-06					
Molybdenum	1.04	0.010	N/A	mg/l	1.00	0.0318	101	70-130	0.8	20	
Nickel	1.00	0.010	N/A	mg/l	1.00	ND	100	70-130	0.7	20	
Selenium	1.04	0.10	N/A	mg/l	1.00	0.0193	103	70-130	1	20	
Silver	0.0789	0.010	N/A	mg/l	0.0750	ND	105	70-130	0.8	20	
Thallium	1.05	0.10	N/A	mg/l	1.00	ND	105	70-130	0.9	20	
Tin	1.06	0.10	N/A	mg/l	1.00	0.492	56	70-130	0.7	20	M2a
Titanium	1.04	0.10	N/A	mg/l	1.00	0.0184	103	70-130	0.04	20	
Zinc	1.04	0.050	N/A	mg/l	1.00	0.0104	102	70-130	0.5	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0815 Extracted: 12/20/12										
Blank Analyzed: 12/20/2012 (12L0815-BLK1)										
Bromide	ND	0.50	N/A	mg/l						
Fluoride	ND	0.40	N/A	mg/l						
Nitrate-N	ND	0.20	N/A	mg/l						
Nitrite-N	ND	0.20	N/A	mg/l						
Sulfate	ND	2.0	N/A	mg/l						
LCS Analyzed: 12/20/2012 (12L0815-BS1)										
Bromide	4.02	0.50	N/A	mg/l	4.00		101		90-110	
Fluoride	3.77	0.40	N/A	mg/l	4.00		94		90-110	
Nitrate-N	4.07	0.20	N/A	mg/l	4.00		102		90-110	
Nitrite-N	3.94	0.20	N/A	mg/l	4.00		98		90-110	
Sulfate	19.7	2.0	N/A	mg/l	20.0		99		90-110	
LCS Dup Analyzed: 12/20/2012 (12L0815-BSD1)										
Bromide	4.02	0.50	N/A	mg/l	4.00		101	90-110	0.05	20
Fluoride	3.78	0.40	N/A	mg/l	4.00		94	90-110	0.1	20
Nitrate-N	4.06	0.20	N/A	mg/l	4.00		102	90-110	0.2	15
Nitrite-N	3.94	0.20	N/A	mg/l	4.00		99	90-110	0.08	15
Sulfate	19.7	2.0	N/A	mg/l	20.0		99	90-110	0.05	15
Matrix Spike Analyzed: 12/20/2012 (12L0815-MS1) Source: PVL1358-04										
Bromide	4.05	0.50	N/A	mg/l	4.00	ND	101	80-120		
Fluoride	4.04	0.40	N/A	mg/l	4.00	0.271	94	80-120		
Nitrate-N	4.20	0.20	N/A	mg/l	4.00	0.125	102	80-120		
Nitrite-N	3.93	0.20	N/A	mg/l	4.00	ND	98	80-120		
Sulfate	50.7	2.0	N/A	mg/l	20.0	31.0	99	80-120		
Matrix Spike Dup Analyzed: 12/20/2012 (12L0815-MSD1) Source: PVL1358-04										
Bromide	4.33	0.50	N/A	mg/l	4.00	ND	108	80-120	7	20
Fluoride	4.33	0.40	N/A	mg/l	4.00	0.271	102	80-120	7	20
Nitrate-N	4.51	0.20	N/A	mg/l	4.00	0.125	110	80-120	7	15
Nitrite-N	4.47	0.20	N/A	mg/l	4.00	ND	112	80-120	13	15
Sulfate	52.3	2.0	N/A	mg/l	20.0	31.0	106	80-120	3	15

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD RPD	RPD Limit	Data Qualifiers
Batch: 12L0833 Extracted: 12/21/12											
Blank Analyzed: 12/21/2012 (12L0833-BLK1)											
Phosphorus, Total - P	ND	0.10	N/A	mg/l							
LCS Analyzed: 12/21/2012 (12L0833-BS1)											
Phosphorus, Total - P	0.315	0.10	N/A	mg/l	0.300		105	90-110			
LCS Dup Analyzed: 12/21/2012 (12L0833-BSD1)											
Phosphorus, Total - P	0.313	0.10	N/A	mg/l	0.300		104	90-110	0.6	20	
Matrix Spike Analyzed: 12/21/2012 (12L0833-MS1)											
						Source: PVL1455-01					
Phosphorus, Total - P	0.594	0.10	N/A	mg/l	0.300	0.282	104	80-120			
Matrix Spike Dup Analyzed: 12/21/2012 (12L0833-MSD1)											
						Source: PVL1455-01					
Phosphorus, Total - P	0.632	0.10	N/A	mg/l	0.300	0.282	117	80-120	6	20	
Batch: 12L0838 Extracted: 12/24/12											
Blank Analyzed: 12/24/2012 (12L0838-BLK1)											
Sulfide	ND	0.050	N/A	mg/l							
Blank Analyzed: 12/24/2012 (12L0838-BLK2)											
Sulfide	ND	0.050	N/A	mg/l							
LCS Analyzed: 12/24/2012 (12L0838-BS1)											
Sulfide	0.444	0.050	N/A	mg/l	0.500		89	80-120			
LCS Dup Analyzed: 12/24/2012 (12L0838-BSD1)											
Sulfide	0.444	0.050	N/A	mg/l	0.500		89	80-120	0	20	

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INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 12L0838 Extracted: 12/24/12</u>											
Matrix Spike Analyzed: 12/24/2012 (12L0838-MS2)						Source: PVL1211-03					
Sulfide	0.486	0.050	N/A	mg/l	0.500	ND	97	80-120			
Matrix Spike Dup Analyzed: 12/24/2012 (12L0838-MSD2)						Source: PVL1211-03					
Sulfide	0.482	0.050	N/A	mg/l	0.500	ND	96	80-120	0.8	20	
<u>Batch: 12L0852 Extracted: 12/20/12</u>											
Blank Analyzed: 12/21/2012 (12L0852-BLK1)											
Biochemical Oxygen Demand	ND	5.0	N/A	mg/l							
LCS Analyzed: 12/21/2012 (12L0852-BS1)											
Biochemical Oxygen Demand	203	5.0	N/A	mg/l	198		102	84.6-115.4			
Duplicate Analyzed: 12/21/2012 (12L0852-DUP1)						Source: PVL1358-08					
Biochemical Oxygen Demand	279	5.0	N/A	mg/l		301			8	20	
Duplicate Analyzed: 12/21/2012 (12L0852-DUP2)						Source: PVL1414-02					
Biochemical Oxygen Demand	234	5.0	N/A	mg/l		227			3	20	
<u>Batch: 12L0895 Extracted: 12/24/12</u>											
Blank Analyzed: 12/24/2012 (12L0895-BLK1)											
Total Suspended Solids	ND	5.0	N/A	mg/l							
LCS Analyzed: 12/24/2012 (12L0895-BS1)											
Total Suspended Solids	183	10	N/A	mg/l	200		92	90-110			

TestAmerica Phoenix

Kylie Emily
 Project Manager

APS - Four Corners Power Plant
 County Road 6675, Stn. 4915
 Fruitland, NM 87416
 Attention: Arnold Slowman

Project ID: NPDES Priority Pollutants Outfall 01E-CWTP

Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limit	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 12L0895 Extracted: 12/24/12</u>											
LCS Dup Analyzed: 12/24/2012 (12L0895-BSD1)											
Total Suspended Solids	181	10	N/A	mg/l	200		90	90-110	1	10	
Duplicate Analyzed: 12/24/2012 (12L0895-DUP1)											
Total Suspended Solids	14.0	10	N/A	mg/l		10.0			33	10	R-9
Duplicate Analyzed: 12/24/2012 (12L0895-DUP2)											
Total Suspended Solids	186	20	N/A	mg/l		194			4	10	
<u>Batch: 12L0929 Extracted: 12/26/12</u>											
Blank Analyzed: 12/26/2012 (12L0929-BLK1)											
Ammonia-N	ND	0.50	N/A	mg/l							
LCS Analyzed: 12/26/2012 (12L0929-BS1)											
Ammonia-N	23.2	0.50	N/A	mg/l	25.0		93	80-120			
LCS Dup Analyzed: 12/26/2012 (12L0929-BSD1)											
Ammonia-N	26.5	0.50	N/A	mg/l	25.0		106	80-120	13	20	
Matrix Spike Analyzed: 12/26/2012 (12L0929-MS1)											
Ammonia-N	19.0	0.50	N/A	mg/l	25.0	ND	76	80-120			M8
Matrix Spike Dup Analyzed: 12/26/2012 (12L0929-MSD1)											
Ammonia-N	18.6	0.50	N/A	mg/l	25.0	ND	74	80-120	2	20	M8
<u>Batch: 12L0974 Extracted: 12/27/12</u>											
Blank Analyzed: 12/27/2012 (12L0974-BLK1)											
Chemical Oxygen Demand	ND	20	N/A	mg/l							

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Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

INORGANICS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
<u>Batch: 12L0974 Extracted: 12/27/12</u>											
LCS Analyzed: 12/27/2012 (12L0974-BS1)											
Chemical Oxygen Demand	194	20	N/A	mg/l	200		97	90-110			
LCS Dup Analyzed: 12/27/2012 (12L0974-BSD1)											
Chemical Oxygen Demand	195	20	N/A	mg/l	200		98	90-110	0.6	20	
Matrix Spike Analyzed: 12/27/2012 (12L0974-MS1)											
						Source: PVL0855-01					
Chemical Oxygen Demand	199	20	N/A	mg/l	200	ND	99	80-120			
Matrix Spike Dup Analyzed: 12/27/2012 (12L0974-MSD1)											
						Source: PVL0855-01					
Chemical Oxygen Demand	216	20	N/A	mg/l	200	ND	108	80-120	8	20	
<u>Batch: 12L1111 Extracted: 12/28/12</u>											
Blank Analyzed: 12/28/2012 (12L1111-BLK1)											
Cyanide, Total	ND	0.050	N/A	mg/l							
LCS Analyzed: 12/28/2012 (12L1111-BS1)											
Cyanide, Total	0.104	0.050	N/A	mg/l	0.100		104	90-110			
LCS Dup Analyzed: 12/28/2012 (12L1111-BSD1)											
Cyanide, Total	0.106	0.050	N/A	mg/l	0.100		106	90-110	2	20	
Matrix Spike Analyzed: 12/28/2012 (12L1111-MS1)											
						Source: PVL1350-01RE3					
Cyanide, Total	0.109	0.050	N/A	mg/l	0.100	ND	109	80-120			
Matrix Spike Dup Analyzed: 12/28/2012 (12L1111-MSD1)											
						Source: PVL1350-01RE3					
Cyanide, Total	0.108	0.050	N/A	mg/l	0.100	ND	108	80-120	1	20	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

TOTAL ORGANIC CARBON (SM 5310B)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0923 Extracted: 12/26/12											
Blank Analyzed: 12/26/2012 (12L0923-BLK1)											
Total Organic Carbon	ND	1.0	N/A	mg/l							
LCS Analyzed: 12/26/2012 (12L0923-BS1)											
Total Organic Carbon	19.0	1.0	N/A	mg/l	20.0		95	90-110			
LCS Dup Analyzed: 12/26/2012 (12L0923-BSD1)											
Total Organic Carbon	19.0	1.0	N/A	mg/l	20.0		95	90-110	0.1	20	
Matrix Spike Analyzed: 12/26/2012 (12L0923-MS1)											
						Source: PVL1364-06					
Total Organic Carbon	23.8	1.0	N/A	mg/l	20.0	5.58	91	90-110			
Matrix Spike Dup Analyzed: 12/26/2012 (12L0923-MSD1)											
						Source: PVL1364-06					
Total Organic Carbon	24.0	1.0	N/A	mg/l	20.0	5.58	92	90-110	0.9	20	

TestAmerica Phoenix

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 Received: 12/20/12

METHOD BLANK/QC DATA

Tetra Chlorinated Dioxins & Furans ID HRGC/HRMS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 8384 Extracted: 01/08/13											
Blank Analyzed: 01/09/2013 (8488-4)											
2,3,7,8-TCDD	ND	10	N/A	pg/L				-			
Surrogate: 13C-2,3,7,8-TCDD	1120			pg/L	2000		56	31-137			
Surrogate: 37Cl4-2,3,7,8-TCDD	756			pg/L	800		95	42-164			
LCS Analyzed: 01/09/2013 (8488-5)											
2,3,7,8-TCDD	192	10	N/A	pg/L	200		96	73-146			
Surrogate: 13C-2,3,7,8-TCDD	837			pg/L	2000		42	25-141			
Surrogate: 37Cl4-2,3,7,8-TCDD	738			pg/L	800		92	42-164			
LCS Dup Analyzed: 01/09/2013 (8488-6)											
2,3,7,8-TCDD	190	10	N/A	pg/L	200		95	73-146	1	50	
Surrogate: 13C-2,3,7,8-TCDD	978			pg/L	2000		49	25-141			
Surrogate: 37Cl4-2,3,7,8-TCDD	764			pg/L	800		95	42-164			

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

Nitrogen, Total Kjeldahl

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 47709 Extracted: 12/31/12											
Matrix Spike Analyzed: 01/02/2013 (48318-25)						Source: 490-48318-22					
Kjeldahl Nitrogen as N	3.02	0.10	0.060	mg/L	2.50		89	90-110			M2
Matrix Spike Dup Analyzed: 01/02/2013 (48318-26)						Source: 490-48318-22					
Kjeldahl Nitrogen as N	3.05	0.10	0.060	mg/L	2.50		90	90-110	1	20	
Blank Analyzed: 01/02/2013 (48318-3)						Source:					
Kjeldahl Nitrogen as N	ND	0.10	0.060	mg/L				-			
LCS Analyzed: 01/02/2013 (48318-4)						Source:					
Kjeldahl Nitrogen as N	2.53	0.10	0.060	mg/L	2.50		101	90-110			
LCS Dup Analyzed: 01/02/2013 (48318-5)						Source:					
Kjeldahl Nitrogen as N	2.53	0.10	0.060	mg/L	2.50		101	90-110	0	20	

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

Phenolics, Total Recoverable

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Data Qualifiers
Batch: 48466 Extracted: 01/04/13											
Blank Analyzed: 01/04/2013 (48632-3)											
Phenolics, Total Recoverable	ND	0.050	0.020	mg/L		Source:		-			
LCS Analyzed: 01/04/2013 (48632-4)											
Phenolics, Total Recoverable	0.775	0.050	0.020	mg/L	0.750	Source:	103	90-110			
Matrix Spike Analyzed: 01/04/2013 (48632-6)											
Phenolics, Total Recoverable	0.839	0.050	0.020	mg/L	0.750	Source: 490-48632-5	106	90-110			

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Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

Sulfite

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD RPD	RPD Limit	Data Qualifiers
<u>Batch: 47201 Extracted: 12/28/12</u>											
Blank Analyzed: 12/28/2012 (47201-1)											
Sulfite	ND	5.0	4.0	mg/L		Source:		-			
LCS Analyzed: 12/28/2012 (47201-2)											
Sulfite	19.6	5.0	4.0	mg/L	20.0	Source:	98	90-110			
Duplicate Analyzed: 12/28/2012 (47201-4)											
Sulfite	ND	5.0	4.0	mg/L		Source: 490-47201-3		-	NC	20	

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Sampled: 12/18/12-12/19/12
 Received: 12/20/12

METHOD BLANK/QC DATA

Volatile Organic Compounds (GC/MS)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC %REC	RPD RPD	RPD Limit	Data Qualifiers
Batch: 45822 Extracted: 12/21/12										
Matrix Spike Analyzed: 12/21/2012 (154271S)					Source: PVL1364-01					
2-Chloroethyl vinyl ether	91.4	5.0	1.6	ug/L	100	ND	91	10-305		
Acrolein	27.4	50	0.85	ug/L	100	ND	27	10-150		E4
Acrylonitrile	86.6	10	3.3	ug/L	100	ND	87	56-142		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	29.5			ug/L	30.0		98	62-143		
Surrogate: 4-Bromofluorobenzene (Surr)	29.4			ug/L	30.0		98	76-124		
Surrogate: Dibromofluoromethane (Surr)	30.5			ug/L	30.0		102	67-129		
Surrogate: Toluene-d8 (Surr)	29.0			ug/L	30.0		97	60-144		
LCS Dup Analyzed: 12/21/2012 (45822-27)					Source:					
2-Chloroethyl vinyl ether	95.3	5.0	1.6	ug/L	100		95	10-305	4	
Acrolein	72.1	50	0.85	ug/L	100		72	10-150	1	
Acrylonitrile	98.1	10	3.3	ug/L	100		98	56-142	12	
Surrogate: 1,2-Dichloroethane-d4 (Surr)	28.7			ug/L	30.0		96	62-143		
Surrogate: 4-Bromofluorobenzene (Surr)	29.3			ug/L	30.0		98	76-124		
Surrogate: Dibromofluoromethane (Surr)	30.4			ug/L	30.0		101	67-129		
Surrogate: Toluene-d8 (Surr)	28.5			ug/L	30.0		95	60-144		
LCS Analyzed: 12/21/2012 (45822-3)					Source:					
2-Chloroethyl vinyl ether	91.1	5.0	1.6	ug/L	100		91	10-305		
Acrolein	71.2	50	0.85	ug/L	100		71	10-150		
Acrylonitrile	87.0	10	3.3	ug/L	100		87	56-142		
Surrogate: 1,2-Dichloroethane-d4 (Surr)	30.8			ug/L	30.0		103	62-143		
Surrogate: 4-Bromofluorobenzene (Surr)	30.3			ug/L	30.0		101	76-124		
Surrogate: Dibromofluoromethane (Surr)	30.1			ug/L	30.0		100	67-129		
Surrogate: Toluene-d8 (Surr)	29.0			ug/L	30.0		97	60-144		
Blank Analyzed: 12/21/2012 (45822-4)					Source:					
2-Chloroethyl vinyl ether	ND	5.0	1.6	ug/L			-			
Acrolein	ND	50	0.85	ug/L			-			
Acrylonitrile	ND	10	3.3	ug/L			-			
Surrogate: 1,2-Dichloroethane-d4 (Surr)	30.3			ug/L	30.0		101	62-143		
Surrogate: 4-Bromofluorobenzene (Surr)	29.6			ug/L	30.0		99	76-124		
Surrogate: Dibromofluoromethane (Surr)	30.5			ug/L	30.0		102	67-129		
Surrogate: Toluene-d8 (Surr)	29.5			ug/L	30.0		98	60-144		

TestAmerica Phoenix

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

DATA QUALIFIERS AND DEFINITIONS

- C** Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted.
- E4** Concentration estimated. Analyte was detected below laboratory minimum reporting level (MRL).
- M16** There was no MS/MSD analyzed with this batch due to the nature of the source sample matrix.
- M2** Matrix spike recovery was low; the associated blank spike recovery was acceptable.
- M2a** The MS and/or MSD were below the acceptance limits due to sample matrix interference. See Blank Spike (LCS).
- M8** The MS and/or MSD were below the acceptance limits. See Blank Spike (LCS).
- MNR1** There was no MS/MSD analyzed with this batch due to insufficient sample volume. See Blank Spike/Blank Spike Duplicate.
- R-9** Sample RPD exceeded the laboratory control limit.
- RL1** Reporting limit raised due to sample matrix effects.
- T4** The cited licensed method does not contain this analyte as part of the method compound list.
- T7** Tentatively identified compound. Concentration is estimated based on the closest internal standard.
- Z2** Surrogate recovery was above the acceptance limits. Data not impacted.
- Z3** The sample required a dilution due to the nature of the sample matrix. Because of this dilution, the surrogate spike concentration in the sample was reduced to a level where the recovery calculation does not provide useful information.
- ND** Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified.
- RPD** Relative Percent Difference

ADDITIONAL COMMENTS

For TICs:

All identifications are tentative and concentrations are estimates based upon spectral comparison to the EPA/NIH library.

TestAmerica Phoenix

Kylie Emily
Project Manager

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Report Number: PVL1364

Sampled: 12/18/12-12/19/12
Received: 12/20/12

Certification Summary

TestAmerica Phoenix

Method	Matrix	Nelac	Arizona
EPA 1664A	Water		X
EPA 200.7	Water		X
EPA 245.1	Water		X
EPA 300.0	Water		X
EPA 608	Water		X
EPA 624	Water	X	X
EPA 625	Water		X
EPA 8260B	Water	X	X
M4500-N C	Water		
SM 2540D	Water		X
SM 4500CN-E	Water		X
SM 4500NH3-D	Water		X
SM 4500-P B, E	Water		X
SM 4500S C,D	Water		X
SM 5210B	Water		X
SM 5220D	Water		X
SM 5310B	Water		X

Nevada and NELAP provide analyte specific accreditations. Analyte specific information for TestAmerica may be obtained by contacting the laboratory or visiting our website at www.testamericainc.com

Subcontracted Laboratories

Aquatic Consulting & Testing

1525 W. University, Suite 106 - Tempe, AZ 85281

Analysis Performed: Color
Samples: PVL1364-06

Analysis Performed: Surfactants
Samples: PVL1364-06

Fiberquant Analytical *Arizona Cert #AZ0633*

5025 S. 33rd Street - Phoenix, AZ 85040

Analysis Performed: Asbestos By TEM
Samples: PVL1364-06

TestAmerica Phoenix

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Sampled: 12/18/12-12/19/12
Received: 12/20/12

Radiation Safety Engineering, Inc. *Arizona Cert #AZ0462*

3245 N. Washington St. - Chandler, AZ 85225-1121

Analysis Performed: Gross Alpha
Samples: PVL1364-06

Analysis Performed: Gross Beta
Samples: PVL1364-06

Analysis Performed: Radium 226
Samples: PVL1364-06

Analysis Performed: Radium 228
Samples: PVL1364-06

TestAmerica - Nashville, TN *Arizona Cert #AZ0473*

2960 Foster Creighton Drive - Nashville, TN 37204

Method Performed: 351.2
Samples: PVL1364-06

Method Performed: 420.4
Samples: PVL1364-05

Method Performed: 624
Samples: PVL1364-01, PVL1364-02, PVL1364-03, PVL1364-04

Method Performed: SM 4500 SO3 B
Samples: PVL1364-06

TestAmerica West Sacramento

880 Riverside Parkway - West Sacramento, CA 95605

Method Performed: 1613B
Samples: PVL1364-06

TestAmerica Phoenix

Kylie Emily
Project Manager

COOLER RECEIPT FORM



Cooler Received/Opened On 12/21/2012 @ 12:50 (Fourth Shipment)

1. Tracking # 0042 (last 4 digits, FedEx)

Courier: Fedex IR Gun ID 94660220

2. Temperature of rep. sample or temp blank when opened: 1.4 Degrees Celsius

3. If Item #2 temperature is 0°C or less, was the representative sample or temp blank frozen? YES NO NA

4. Were custody seals on outside of cooler? YES...NO...NA

If yes, how many and where: (1) Front

5. Were the seals intact, signed, and dated correctly? YES...NO...NA

6. Were custody papers inside cooler? YES...NO...NA

I certify that I opened the cooler and answered questions 1-6 (initial) CA

7. Were custody seals on containers: YES NO and Intact YES...NO...NA

Were these signed and dated correctly? YES...NO...NA

8. Packing mat'l used? Bubblewrap Plastic bag Peanuts Vermiculite Foam Insert Paper Other None

9. Cooling process: Ice Ice-pack Ice (direct contact) Dry ice Other None

10. Did all containers arrive in good condition (unbroken)? YES...NO...NA

11. Were all container labels complete (#, date, signed, pres., etc)? YES...NO...NA

12. Did all container labels and tags agree with custody papers? YES...NO...NA

13a. Were VOA vials received? YES...NO...NA

b. Was there any observable headspace present in any VOA vial? YES...NO...NA

14. Was there a Trip Blank in this cooler? YES...NO...NA If multiple coolers, sequence #

I certify that I unloaded the cooler and answered questions 7-14 (initial)

15a. On pres'd bottles, did pH test strips suggest preservation reached the correct pH level? YES...NO...NA

b. Did the bottle labels indicate that the correct preservatives were used YES...NO...NA

16. Was residual chlorine present? YES...NO...NA

I certify that I checked for chlorine and pH as per SOP and answered questions 15-16 (initial)

17. Were custody papers properly filled out (ink, signed, etc)? YES...NO...NA

18. Did you sign the custody papers in the appropriate place? YES...NO...NA

19. Were correct containers used for the analysis requested? YES...NO...NA

20. Was sufficient amount of sample sent in each container? YES...NO...NA

I certify that I entered this project into LIMS and answered questions 17-20 (initial)

I certify that I attached a label with the unique LIMS number to each container (initial)

21. Were there Non-Conformance issues at login? YES...NO Was a NCM generated? YES...NO...#

Subcontract Order - TestAmerica Phoenix (PVL1364)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub PHX PVL1364**

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Kylie Emily
 Client: APS - Four Corners Power Plant

RECEIVING LABORATORY:

TestAmerica Nashville
 2960 Foster Creighton Drive
 Nashville, TN 37204
 Phone : (800) 765-0980
 Fax: 615-726-0954
 Project Location: Arizona
 Receipt Temperature: 1.6 °C

Loc: 490
15427

Ice: Y / N

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
----------	-------	-----	---------	----------------	-------	----------

Sample ID: PVL1364-01 (CWTP (Outfall 01E)-A - Water)

Sampled: 12/18/12 19:05

624 (AC & AC Only)	ug/l	01/01/13	12/21/12 19:05	\$60.00	0%	
624 (CEVE only)	ug/l	01/01/13	12/25/12 19:05	\$60.00	0%	

Containers Supplied:

40 ml Voa Vial (A) 40 ml Voa Vial (B) 40 ml Voa Vial (C)

Sample ID: PVL1364-02 (CWTP (Outfall 01E)-B - Water)

Sampled: 12/18/12 02:02

624 (AC & AC Only)	ug/l	01/01/13	12/21/12 02:02	\$60.00	0%	
624 (CEVE only)	ug/l	01/01/13	12/25/12 02:02	\$60.00	0%	

Containers Supplied:

40 ml Voa Vial (A) 40 ml Voa Vial (B) 40 ml Voa Vial (C)

Sample ID: PVL1364-03 (CWTP (Outfall 01E)-C - Water)

Sampled: 12/19/12 08:12

624 (AC & AC Only)	ug/l	01/01/13	12/22/12 08:12	\$60.00	0%	
624 (CEVE only)	ug/l	01/01/13	12/26/12 08:12	\$60.00	0%	

Containers Supplied:

40 ml Voa Vial (A) 40 ml Voa Vial (B) 40 ml Voa Vial (C)

Sample ID: PVL1364-04 (CWTP (Outfall 01E)-D - Water)

Sampled: 12/19/12 14:00

624 (AC & AC Only)	ug/l	01/01/13	12/22/12 14:00	\$60.00	0%	
624 (CEVE only)	ug/l	01/01/13	12/26/12 14:00	\$60.00	0%	

Containers Supplied:

40 ml Voa Vial (A) 40 ml Voa Vial (B) 40 ml Voa Vial (C)

Sample ID: PVL1364-05 (CWTP (Outfall 01E) - Water)

Sampled: 12/18/12 16:50

Phenols (420.1)-I	mg/l	01/01/13	01/01/13 16:50	\$35.00	0%	
-------------------	------	----------	----------------	---------	----	--

Containers Supplied:

250 ml Amber
 w/H2SO4 (A)

Sharon Malone 12/20/12 1700
 Released By Date/Time

Feed Ex 12/20/12 1700
 Received By Date/Time

 Released By Date/Time

[Signature] 12-21-12 / 1850
 Received By Date/Time


Subcontract Order - TestAmerica Phoenix (PVL1364)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub PHX PVL1364**

Analysis	Units	Due	Expires	Interlab Price	Surch	Comments
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)			Sampled: 12/19/12 14:00			
Sulfite (Sub)	mg/l	01/01/13	12/20/12 14:00	\$20.00	0%	
TKN	mg/l	01/01/13	01/16/13 14:00	\$33.75	0%	
Containers Supplied:						
500 ml Poly (O)	250 ml Poly w/H2SO4					
	(S)					

-6

Loc: 490
15427

 TAW 12-21-12 / 1250

Subcontract Order - TestAmerica Phoenix (PVL1364)

Please enter the following code into the Job PO Number field for automated UDZ transfer files: **Sub-PHX PVL1364**

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Kylie Emily
 Client: APS - Four Corners Power Plant

RECEIVING LABORATORY:

TestAmerica West Sacrame
 880 Riverside Parkway
 West Sacramento, CA 9560
 Phone : (916) 373-5600
 Fax: (916) 372-1059
 Project Location: Arizona
 Receipt Temperature: 0.1 °C



320-1367 Chain of

Ice: / N

Analysis	Units	Due	Expires	Interlab Price Surch	Comments
----------	-------	-----	---------	----------------------	----------

Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)

Sampled: 12/19/12 14:00

N_Dioxin only (1613A, Sub)	mg/l	01/08/13	12/26/12 14:00	\$240.00	0%
----------------------------	------	----------	----------------	----------	----

Containers Supplied:

1 L Amber (E) 1 L Amber (F)

** Sampled ^{date} = 12/19/12
 or 12.21.12*

Sharon Malone
 Released By

12-20-12 1700
 Date/Time

Ted Ey
 Received By

12-20-12 1700
 Date/Time

Cesar C. Combes
 Received By

12/21/12 12:30
 Date/Time

Released By

Date/Time

Login Sample Receipt Checklist

Client: TestAmerica Laboratories, Inc.

Job Number: 320-1367-1

Login Number: 1367

List Source: TestAmerica Sacramento

List Number: 1

Creator: Hytrek, Cheryl

Question	Answer	Comment
Radioactivity wasn't checked or is \leq background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	N/A	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

CHAIN OF CUSTODY FORM

PVL 1364

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-850 (1/01/0)

Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 1 of 3

Client Name/Address:
 Arizona Public Service Co.
 Four Corners River Plant
 PO Box 355, MS 4881
 Fort Huachuca, AZ 87916

Project Manager:
 Arnold Stawman

Project/PO Number:
 Project: NPDES Rainy Releasants (RR)
 Outfall 01E - CWP
 PO Number: 100500389
 Phone Number:
 505-898-8443
 Fax Number:
 505-598-8292

Sampler:
 Debra Yazzie & Carl Wohlfalk

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	624	624 AC/AC W/CVEE	Phenols	Cyanide	Oil & Grease	625	Analysis Required	Special Instructions
--------------------	---------------	----------------	------------	---------------	---------------	---------------	-----	------------------	---------	---------	--------------	-----	-------------------	----------------------

CWRP (outfall 01E)-A	SW	VGA	3	12-18-12	1405hrs	none		X				-01		
CWRP (outfall 01E)-A	SW	VGA	3	12-18-12	1465hrs	HCl	X					-01		
CWRP (outfall 01E)-B	SW	VGA	3	12-18-12	1323hrs	none		X				-02		
CWRP (outfall 01E)-B	SW	VGA	3	12-18-12	1308hrs	HCl	X					-02		
CWRP (outfall 01E)-C	SW	VGA	3	12-19-12	0812hrs	none		X				-03		
CWRP (outfall 01E)-C	SW	VGA	3	12-19-12	0812hrs	HCl	X					-03		
CWRP (outfall 01E)-D	SW	VGA	3	12-19-12	1400hrs	none		X				-04		* Sampled every 3hrs
CWRP (outfall 01E)-D	SW	VGA	3	12-15-12	1400hrs	HCl	X					-04		* Sampled every 3hrs
CWRP (outfall 01E)	SW	POY ASPH SDDW1	1	12-18-12	1650hrs	H2SO4		X				-05		starting at 1650hrs on
CWRP (outfall 01E)	SW	Amber 1L	1	12-18-12	1650hrs	NiOH			X			-05		12-18-12 end last
CWRP (outfall 01E)-A	SW	Amber 1L	1	12-18-12	1650hrs	HCl			X			-05		sample collected at
CWRP (outfall 01E)-B	SW	Amber 1L	1	12-18-12	1650hrs	none			X			-06		sample collected at
Relinquished By: <u>Arnold Stawman</u> Date/Time: <u>12-19-12/1530 hrs</u> Received By: <u>Debra Yazzie</u> Date/Time: <u>12-19-12/1530 hrs</u>														
Relinquished By: <u>Debra Yazzie</u> Date/Time: <u>12-20-12/11:00</u> Received By: <u>Debra Yazzie</u> Date/Time: <u>12-20-12/11:00</u>														
Turnaround Time: (Check) <u>same day</u> 72 hours <u>normal</u>														
Sample Integrity: (Check) <u>intact</u> on ice <u>X</u>														

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.

44°C + 1.0°C

TestAmerica

CHAIN OF CUSTODY FORM

PVL1364

THE LEADER IN ENVIRONMENTAL TESTING
 TAL-0013-850 (10/10)

[] Phoenix - 4625 E. Cotton Center Blvd., Suite 189, Phoenix, AZ 85040 (602) 437-3340 FAX (602) 454-9303
 [] Tucson - 1870 W. Prince Road, Suite 59, Tucson, AZ 85705 (520) 807-3801 FAX (520) 807-3803
 [] Las Vegas - 6000 S Eastern Ave., Suite 5E, Las Vegas, NV 89119 (702) 429-1264

Page 2 of 3

Client Name/Address:
 Arizona Public Service Co.
 Four Corners Power Plant
 P.O. Box 355, MS 4981
 Fruitland, NM 87416

Project/PO Number:
 Project: NDES Facility Rehabilitation (P2)
 outfall 015 CWT
 P.O. Number: 100520389
 Phone Number: 505-538-8443
 Fax Number: 505-538-8292

Project Manager:
 Arnold Strommen

Sampler:
 Debra Kerzic & Carl Westfall

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	608	Dioxin	Asbestos	PP metals	Rad chem	TOC	Sulfide	Sulfite	Color, Surfactants	Special Instructions
CWT (outfall 01E)-A	SW	Amber 1L	1	12/8/12	24 hr composite	none	X									* Sampled every 3 hrs starting at 1630 hrs on 12-13-12 and last sample collected at 1400 hrs on 12-19-12
CWT (outfall 01E)-B	SW	Amber 1L	1	12/8/12	24 hr composite	none		X								
CWT (outfall 01E)-A	SW	Amber 1L	1	12/8/12	24 hr composite	none			X							
CWT (outfall 01E)-B	SW	Amber 1L	1	12/8/12	24 hr composite	none				X						
CWT (outfall 01E)	SW	Boh 500ml	1	12/8/12	24 hr composite	HNO3				X						
CWT (outfall 01E)	SW	Boh 500ml	1	12/8/12	24 hr composite	none					X					
CWT (outfall 01E)	SW	VOA	3	12/18/12	24 hr composite	HCl, MeOH & Zn Acetate					X					
CWT (outfall 01E)	SW	Boh 500ml	1	12/18/12	24 hr composite	none						X				
CWT (outfall 01E)	SW	Boh 500ml	1	12/18/12	24 hr composite	none							X			
CWT (outfall 01E)	SW	Boh 500ml	1	12/18/12	24 hr composite	none								X		

Relinquished By: Debra Kerzic Date/Time: 12-19-12/1530 hrs Received By: _____ Date/Time: _____
 Relinquished By: Carl Westfall Date/Time: 12-20-12 11:00 Received By: Stratton Malone Date/Time: 12-20-12 11:00
 Turnaround Time: (Check) same day _____ 72 hours _____ 24 hours _____ 5 days _____ 48 hours _____
 Sample Integrity: (Check) intact X on ice X

Note: By relinquishing samples to TestAmerica, client agrees to pay for the services requested on this chain of custody form and any additional analyses performed on this project.
 Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 30 days.
 4.4°C & 1.0°



Determination of Asbestos in Water using TEM

JobNumber: 201211730

Client: TEST AMERICA PHOENIX

4625 E COTTON CTR BLVD STE 189

PHOENIX, AZ 85040-0000
Office Phone: (602) 437-3340
FAX: (602) 454-9303

Preliminary Data (Unreviewed)
Note: Preliminary data are not covered by accreditation.

Samples: 1 TEM **Rec:** 12/20/2012 **Method:** EPA 100.1 TEM Water
Client Job: PVL1364 **PO Number:**
Report Date: 12/28/2012 **Date Analyzed:** 12/28/2012 **Routing Number:** -

Method and Analysis Information: Fiberquant Internal SOP: TEMw

Samples are analyzed using the protocols given in EPA method 100.1, as amended by the 1993 EPA guidance. Samples should be un-preserved water in 1 L containers having about 200 ml headspace for shaking. There is a 48 hr deadline between the time the sample is taken and the time it is filtered to minimize loss of asbestos fibers due to biological interference. Each sample is shook for 1 minute, and ultrasonicated for at least 10 minutes, shaking every 5 minutes to disperse any fibers that are present. A measured amount of sample is then filtered through a 0.1 um pore size polycarbonate filter, backed by a 5 um pore size MCE filter and a glass frit. Several volumes of liquid may be filtered for each sample in order to assure that a properly loaded sample is obtained. A portion of each resulting filter (and blanks) is then coated with 100-200 um of carbon in a Denton 502A Carbon Evaporator. The carbon encapsulates all of the larger and most of the smaller particulate on the filter. Three mm square pieces of the coated filter are placed on three or more copper TEM grids, and the original filter material is dissolved away in a Jaffe wick and/or condensation washer. The finished replica in carbon containing the particulate is then examined on a JEOL 1200 or Phillips CM 10 transmission electrom microscope at 10,000 to 20,000x magnification. All asbestos fibers >10um in length are tabulated and characterized as asbestos or non-asbestos using a combination of morphology, electron diffraction characteristics, and elemental composition. The result is calculated in millions of fibers per liter (MFL). The grid is scanned until 20 grid openings have been observed, or until an analytical sensitivity (the hypothetical observation of one fiber) of 0.2 MFL has been reached. The nominal 20 grid opening cut-off is used for those samples containing so much non-asbestos particulate that the desired analytical sensitivity is impractical to attain.

The method was designed to determine EPA drinking water compliance. The standard for drinking water is <7 MFL as measured by this method. Fiberquant maintains Arizona Environmental Laboratory license #AZ0633 covering EPA Method 100.1.

Overall, the coefficient of variation can be expected to be approximately 0.5 for analyses in which >20 asbestos fibers have been counted, ranging up to 1.00 for analyses in which only a few asbestos fibers are counted.

The analysis was performed under an ongoing quality assurance program which includes: Lab blanks, prepared with each set of samples and analyzed. Each analyst has suitable background credentials, such as at least a bachelor's degree in geology or chemistry, and has undergone extensive 2-6 month training in TEM techniques and mineralogy specific to TEM asbestos analysis before being allowed to perform client analyses. Unknown reference samples are routinely identified to ensure that each analyst can collect and correctly interpret TEM information. The TEM is aligned and its performance checked daily. Magnification, electron diffraction pattern size, and analytical performance characteristics are calibrated routinely. Samples are re-analyzed sometimes by the same analyst and sometimes by a different analyst in order to determine accuracy and precision. The total of QC analyses (blanks + recounts) are greater than 10% of analyzed samples. Each analyst participates in interlab round robins and proficiency testing in order to show correlation to other lab's analyses. Because TEM samples are not analyzed in batches, which would be traditional for most water analyses, and not every sample has a duplicate or replicate analysis associated with it, it is not possible to include a traditional QC report with the analysis. QC reports are produced monthly, and are available on request. All quality checks performed for these samples were in control except as detailed in the "Analytical Notes" below. Fiberquant is accredited by NVLAP to perform TEM analysis of asbestos in air samples, and has been found to be proficient in the EPA water proficiency program. Accreditation or proficiency does not imply endorsement by the EPA, any other United States governmental agency or any private agency or association. Each lab analysis refers only to the sample tested, and may not, due to the sampling process, be representative of the material sampled. This report may not be reproduced except in full, without the approval of Fiberquant Analytical Services.

Some results may have been calculated using client supplied data, such as volume or area sampled, for which Fiberquant assumes no liability for accuracy.

Job Analysis Notes:

High levels of particulate material did not permit analysis to the desired sensitivity of 0.2 million fibers per liter (MFL).

Sampled:	12/19/2012	14:00	By:	Yassie, D/Woolfolk, C.
Received:	12/20/2012	16:25		
Filtered:	12/20/2012	16:50		
Analyzed:	12/28/2012	11:45		

Analyzed:

Analysis Results:

Lab Number	Client Number	Date	Condition	Filtered Vol (ml)	#GOs	GO Area	MFL>10um	AsbestosType	Sensitivity (MFL>10um)
							Job Number:	201211730	
2012-11730- 1	PVL1364-06	12/19/2012	acceptable	2	20	0.00969	<2.5	-	2.5



Analyst: DAVID M. SCHALLER

Printed: 28-Dec-12

Original Print Date: 28-Dec-12



Larry S. Pierce, Approved Accreditation Signatory

Job Number:	201211730
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QA Report:	Job Number:	201211730
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1. Calibrations	
TEM magnification. date of last.	12/10/2012
TEM camera constant. date of last.	12/28/2012
EDS performance check (k-factors, resolution, low-e perf.). date of last.	12/12/2012
TEM stage drift, minimum beam size. date of last.	12/12/2012
plasma asher. date of last.	8/6/2012
2. Blanks (1/25 samples required)	
	Not Required This Job
3. Recounts (1/17 samples required)	
	Not Required This Job
4. Analyst Performance	
NVLAP proficiency testing	Current
verified counts. cum. % true positives	89.8
verification of diffraction pattern identifications. cum. % correct	99.7
verification of EDS spectra. cum. % correct	97.2

Fiberquant Analytical Services

Fiberquant, Inc. 6025 S. 33rd St., Phoenix, Arizona 85040 602-276-6139 Fax 602-276-4658

TEM Water Sample Count Sheet

Method: EPA 100.1 (600/4-84-043)

Sample Information

Client: TEST AMERICA PHOENIX

Client Smp #: PVL1364-06

Lab #: 2012-11730-1

Vol Filtered (ml) 2

Grid Orientation
Draw Asym Spot

MCE PC Pore um: 0.4 0.22 0.1

Grid Information

#Grids Prepped: 3 GO Area: 0.00969 #GOs to Count 20

Est. % Loading 3

TEM: Jeol N Jeol S Mag: 20K or Alignment: checked EDS: callb not used

Ac. Volatage: 100keV 120keV keV

Fiber Counts:

Grid Storage # 126795

Acceptable Prep (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs)

E6	E7	E8	E9	E10	E11	E12	E13	E14	E15
F6	F7	F8	F9	F10	F11	F12	F13	F14	F15
G6	G7	G8	G9	G10	G11	G12	G13	G14	G15
H6	H7	H8	H9	H10	H11	H12	H13	H14	H15
I6	I7	I8	I9			I12	I13	I14	I15
J6	J7	J8	J9			J12	J13	J14	J15
K6	K7	K8	K9	K10	K11	K12	K13	K14	K15
L6	L7	L8	L9	L10	L11	L12	L13	L14	L15
M6	M7	M8	M9	M10	M11	M12	M13	M14	M15
N6	N7	N8	N9	N10	N11	N12	N13	N14	N15

Grid Map
X denotes GO's on 1st grid; O denotes GO's on 2nd

Location		Str. Type				Size		Morphology			Diffraction Data						EDXA Data						Ident.'n					
GO #	STR #	FIBER	BUNDLE	MATRIX	CLUSTER	Length	Width	TUBULAR	BILAYED	Negative #	SA Row Spacing	Estimated In-flow Spacing	CHRY	AMPH	NONASB	NO PATT	Negative #	N	M	S	C	F	Other	File #	ASBESTOS	NONASB		
F9	N4																											
H8	N2																											
P15	N4																											
H14	N2																											
J13	N4																											
L2	N4																											
N11	N4																											

Grid Storage # 126797

Acceptable Prep (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs)

J7	N4																												
L6	N4																												
P13	N4																												
H12	N4																												
L10	N4																												
N9	N4																												
N5	N4																												

Grid Storage # 126799

Acceptable Prep (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs)

P11	N4																												
H10	N4																												
J9	N4																												
L8	N4																												
N7	N4																												
N13	N4																												

Abbreviations: NSD-No structures Detected, CH-chrysotile, GR-grunersite, AN-anthophyllite, TR-tremolite, AP-amphibole, GO-grid opening, NA=non-asbestos

Notes: High levels of particulate material did not permit analysis to be derived sensitivity of 0.2 million fibers per liter (MFL)

Totals:	CH > 10	0	AP > 10	0	GOs Counted	2	Results:	Str/mm2	< 5	MPL	< 2.5
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Analyst: D. M. Schiller

Date: 12-28-12

Subcontract Order - TestAmerica Phoenix (PVL1364)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Kylie Emily

RECEIVING LABORATORY:

Fiberquant Analytical
 5025 S. 33rd Street
 Phoenix, AZ 85040
 Phone: (602) 276-6139
 Fax: (602) 276-4558
 Project Location: Arizona
 Receipt Temperature: _____ °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)			
		Sampled: 12/19/12 14:00	
Asbestos By TEM-O	Present/Absent	12/21/12 14:00	
Containers Supplied:			
1 Liter Poly (G)			

*12-20-12
 Called Kylie
 for sampler*

*Samplers KKK
 Debra Yassie
 Carl Woolfolk*

COPY

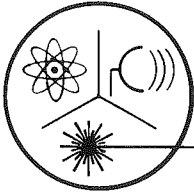
201211730

[Signature]
 Released By _____
 Date/Time 1625
12/20/12

Kathy Knowles
 Received By _____
 Date/Time 12-20-12 4:25

Released By _____
 Date/Time _____

Received By _____
 Date/Time _____



Radiation Safety Engineering, Inc.

3245 N. WASHINGTON ST. · CHANDLER, ARIZONA 85225-1121
Website: www.radsafe.com

(480) 897-9459
FAX (480) 892-5446

Radiochemical Activity in Water (pCi/L)

TestAmerica
4625 E. Cotton Center Blvd., Suite #189
Phoenix, AZ 85040

Sampling Date: December 19, 2012
Sample Received: December 21, 2012
Analysis Completed: January 02, 2013

Sample ID	Gross Alpha Activity Method 600/00-02 (pCi/L)	Gross Beta Activity Method 900.0 (pCi/L)	Radium 226 Activity Method 903.1 (pCi/L)	Radium 228 Activity Method 904 (pCi/L)	Total Radium (pCi/L)
PVL1364-06	2.2 ± 0.7	7.9 ± 1.6	0.9 ± 0.1	<0.4	0.9 ± 0.1

Date of Analysis	12/29/2012	12/26/2012	12/27/2012	12/27/2012	12/27/2012
------------------	------------	------------	------------	------------	------------


Robert L. Metzger, Ph.D., C.H.P.

Subcontract Order - TestAmerica Phoenix (PVL1364)

SENDING LABORATORY:

TestAmerica Phoenix
 4625 East Cotton Center Blvd. Ste 189
 Phoenix, AZ 85040
 Phone: (602) 437-3340
 Fax: (602) 454-9303
 Project Manager: Kylie Emily

RECEIVING LABORATORY:

Radiation Safety Engineering, Inc.
 3245 N. Washington St.
 Chandler, AZ 85225-1121
 Phone : (480) 897-9459
 Fax: 480-892-5446
 Project Location: Arizona
 Receipt Temperature: _____ °C Ice: Y / N

Standard TAT is requested unless specific due date is requested. => Due Date: _____ Initials: _____

Analysis	Units	Expires	Comments
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Sample ID: PVL1364-06 (CWTP (Outfall 01E) - Water)

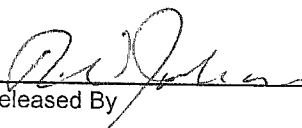
Sampled: 12/19/12 14:00

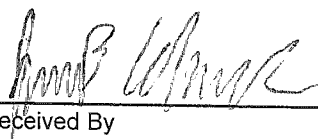
Gross Alpha-O	pCi/L	12/19/13 14:00	
Gross Beta-O	pCi/L	12/19/13 14:00	
Radium 226-O	pCi/L	12/19/13 14:00	
Radium 228-O	pCi/L	12/19/13 14:00	

45519

Containers Supplied:

1 Gallon Poly (I)


12-21-12 9:33
 Released By _____ Date/Time _____


12/21/12 9:33
 Received By _____ Date/Time _____

Released By _____ Date/Time _____

Received By _____ Date/Time _____