TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

This entire report was reviewed and approved for release.

CASE NARRATIVE

LABORATORY ID	CLIENT ID	MATRIX
PVL1364-01	CWTP (Outfall 01E)-A	Water
PVL1364-02	CWTP (Outfall 01E)-B	Water
PVL1364-03	CWTP (Outfall 01E)-C	Water
PVL1364-04	CWTP (Outfall 01E)-D	Water
PVL1364-05	CWTP (Outfall 01E)	Water
PVL1364-06	CWTP (Outfall 01E)	Water
PVL1364-07	Trip Blank	Water

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

APS - Four Corners Power Plant	Project ID: NPDES Priority Pollutants Outfall 01E-CWTP	
County Road 6675, Stn. 4915		Sampled: 12/18/12-12/19/12
Fruitland, NM 87416	Report Number: PVL1364	Received: 12/20/12
Attention: Arnold Slowman		

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*106 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
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	
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*104 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
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	
Surrogate: Dibromofluoromethane (70-130%)					*108 %*				
Surrogate: Toluene-d8 (70-130%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
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	
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)					*98 %*				
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	
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*106 %*				
Surrogate: 4-Bromofluorobenzene (70-130%)					*99 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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: PVL1364-01 (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	
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*106 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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: PVL1364-02 (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	
Surrogate: 4-Bromofluorobenzene (70-130%)					*97 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*104 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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: PVL1364-03 (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	
Surrogate: 4-Bromofluorobenzene (70-130%)					*101 %*				
Surrogate: Dibromofluoromethane (70-130%)					*108 %*				
Surrogate: Toluene-d8 (70-130%)					*102 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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: PVL1364-04 (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	
Surrogate: 4-Bromofluorobenzene (70-130%)					*98 %*				
Surrogate: Dibromofluoromethane (70-130%)					*105 %*				
Surrogate: Toluene-d8 (70-130%)					*101 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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	
Surrogate: 4-Bromofluorobenzene (70-130%)					*99 %*				
Surrogate: Dibromofluoromethane (70-130%)					*104 %*				
Surrogate: Toluene-d8 (70-130%)					*106 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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)					**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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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	
Benzanthracene	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	
Surrogate: 2-Fluorophenol (10-78%)					*41 %*				
Surrogate: Phenol-d6 (10-51%)					*24 %*				
Surrogate: Nitrobenzene-d5 (22-116%)					*75 %*				
Surrogate: 2-Fluorobiphenyl (40-91%)					*68 %*				
Surrogate: 2,4,6-Tribromophenol (14-122%)					*84 %*				
Surrogate: 4-Terphenyl-d14 (10-117%)					*57 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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-m-xylene (10-132%)					*74 %*				*Z3*
Surrogate: Decachlorobiphenyl (10-103%)					*59 %*				*Z3*

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	
Surrogate: 13C-2,3,7,8-TCDD (31-137%)					*47 %*				
Surrogate: 37Cl4-2,3,7,8-TCDD (42-164%)					*96 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	
Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)					*100 %*				
Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)					*99 %*				
Surrogate: Dibromofluoromethane (Surr) (67-129%)					*106 %*				
Surrogate: Toluene-d8 (Surr) (60-144%)					*96 %*				
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	
Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)					*102 %*				
Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)					*100 %*				
Surrogate: Dibromofluoromethane (Surr) (67-129%)					*102 %*				
Surrogate: Toluene-d8 (Surr) (60-144%)					*97 %*				
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	
Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)					*99 %*				
Surrogate: Dibromofluoromethane (Surr) (67-129%)					*101 %*				
Surrogate: Toluene-d8 (Surr) (60-144%)					*98 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	
Surrogate: 1,2-Dichloroethane-d4 (Surr) (62-143%)					*99 %*				
Surrogate: 4-Bromofluorobenzene (Surr) (76-124%)					*99 %*				
Surrogate: Dibromofluoromethane (Surr) (67-129%)					*104 %*				
Surrogate: Toluene-d8 (Surr) (60-144%)					*95 %*				

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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*			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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											
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*			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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											
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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											
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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											
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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, TENTATIVELY IDENTIFIED COMPOUNDS

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)											
bis(chloromethyl) ether	ND	NA	N/A	ug/l							*T7*
Tentatively Identified Compounds	ND	10	N/A	ug/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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*

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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							
Benzanthracene	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							

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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)											**M16**
n-Nitrosodimethylamine	49.3	10	N/A	ug/l	80.0		62	37-77			
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Analyzed: 12/28/2012 (12L0874-BS1)											**M16**
Acenaphthene	67.0	10	N/A	ug/l	80.0		84	47-145			
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			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0874 Extracted: 12/22/12											
LCS Analyzed: 12/28/2012 (12L0874-BS1)											**M16**
n-Decane (C10)	64.0	15	N/A	ug/l	120		53	10-88			
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-BSD1)											**M16**
n-Nitrosodimethylamine	47.7	10	N/A	ug/l	80.0		60	37-77	3	31	
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
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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	
Benzanthracene	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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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*			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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											
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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)											**MNR1**
alpha-BHC	0.961	0.050	N/A	ug/l	1.00		96	37-134			
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-m-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-m-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)											**MNR1**
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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

TOTAL METALS

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0838 Extracted: 12/24/12											
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	
Batch: 12L0852 Extracted: 12/20/12											
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	
Batch: 12L0895 Extracted: 12/24/12											
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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0895 Extracted: 12/24/12											
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)						**Source: PVL1337-02**					
Total Suspended Solids	14.0	10	N/A	mg/l		10.0			33	10	*R-9*
Duplicate Analyzed: 12/24/2012 (12L0895-DUP2)						**Source: PVL1402-02**					
Total Suspended Solids	186	20	N/A	mg/l		194			4	10	
Batch: 12L0929 Extracted: 12/26/12											
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)						**Source: PVL1261-03**					
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)						**Source: PVL1261-03**					
Ammonia-N	18.6	0.50	N/A	mg/l	25.0	ND	74	80-120	2	20	*M8*
Batch: 12L0974 Extracted: 12/27/12											
Blank Analyzed: 12/27/2012 (12L0974-BLK1)											
Chemical Oxygen Demand	ND	20	N/A	mg/l							

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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 Limits	RPD	RPD Limit	Data Qualifiers
Batch: 12L0974 Extracted: 12/27/12											
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	
Batch: 12L1111 Extracted: 12/28/12											
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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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)						**Source:**					
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)						**Source:**					
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)						**Source:**					
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*			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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	

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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)						**Source:**					
Phenolics, Total Recoverable	ND	0.050	0.020	mg/L				-			
LCS Analyzed: 01/04/2013 (48632-4)						**Source:**					
Phenolics, Total Recoverable	0.775	0.050	0.020	mg/L	0.750		103	90-110			
Matrix Spike Analyzed: 01/04/2013 (48632-6)						**Source: 490-48632-5**					
Phenolics, Total Recoverable	0.839	0.050	0.020	mg/L	0.750		106	90-110			

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

Sulfite

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

TestAmerica Phoenix

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

Volatile Organic Compounds (GC/MS)

Analyte	Result	Reporting Limit	MDL	Units	Spike Level	Source Result	%REC	%REC Limits	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

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

Kylie Emily
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

4625 East Cotton Center Blvd. Ste 189, Phoenix, AZ 85040 (602) 437-3340 Fax:(602) 454-9303

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

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

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
Nashville, TN

COOLER RECEIPT FORM

490-15427 Chain of Custody

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 (intial) _____

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 (intial) _____

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 (intial) _____

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 (intial) _____

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

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

BIS = Broken in shipment

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 Ice: Y / N

Loc: 490
15427

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:						-1
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:						-2
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:						-3
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:						-4
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:						-5
250 ml Amber w/H2SO4 (A)						

Sharon Malone	12/20/12 1700	Fed Ex	12/20/12 1700
Released By	Date/Time	Received By	Date/Time
		TRW	12-21-12 1250
Released By	Date/Time	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

TAN 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 Ice: Y / N

320-1367 Chain of

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 ~~time~~ date = 12/19/12
or 12.21.12

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

Ted Ey 12-20-12 1700
Received By Date/Time

Released By Date/Time

Cesar C Cortes 12/21/12 12:30
Received 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 </= 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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Chain of Custody Form PVL1360

Town of Queen Creek Water 22358 S. Ellsworth Rd. Queen Creek, AZ 85242	Project/ PO Number:						Analysis Required				
Project Manager: Greg Homol	**Phone Number:** 480-797-2991 **Email Address:** greg.homol@queencreek.org **Fax Number:** 480-358-3001 **Water System # AZ0407033**						Colilert/ E. Coli (Fecal)				
Sampler: Cheryl Staples											
Sample Description	# of Cont.	Sampling Date	Sampling Time	Residual	Pressure	Preservative					
-01 Ocotillo Heights Well (DWR #55-621359)	1	12/20/2012	6:50	-	-	Na2S2O3	XX				
-02 Schnepf Well (DWR #55-612288)	1	12/20/2012	6:20	-	-	Na2S2O3	XX				
-03 Hastings Well (DWR #55-600447)	1	12/20/2012	7:07	-	-	Na2S2O3	XX				

Relinquished by:	Date/ Time:	Received by:	Date/ Time:
Cheryl Staples	12/20/12 9:46		12/20/12 9:46
Relinquished by:	Date/ Time:	Received by:	Date/ Time:
Relinquished by:	Date/ Time:	Received by:	Date/ Time:

Turn around time: (circle one) same day 24 hrs 48 hrs 72 hrs 5 days normal

Sample Integrity: (check) Intact____ On ice ✓ Temperature 5.1°

Comments: Samples taken at well head no chlorination

State Forms Needed (Groundwater Rule Samples)

PVL 1364

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] 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

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

Project/PO Number:
Project: NPDES Priority Pollutants (PP)
outfall 01E - CWTP
P.O. Number: 100500389

Project Manager:
Arnold Slowman

Phone Number:
505-598-8443

Sampler:
Debra Yazzie & Carl Woolfolk

Fax Number:
505-598-8292

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	624	624 AC/AC WCEVE	Phenols	Cyanide	Oil & Grease	625			Special Instructions
CWTP (outfall 01E)-A	SW	VOA	3	12-18-12	1905 hrs	none		X					-01		
CWTP (outfall 01E)-A	SW	VOA	3	12-18-12	1905 hrs	HCl	X						-01		
CWTP (outfall 01E)-B	SW	VOA	3	12-18-12	0203 hrs	none		X					-02		
CWTP (outfall 01E)-B	SW	VOA	3	12-18-12	0203 hrs	HCl	X						-02		
CWTP (outfall 01E)-C	SW	VOA	3	12-19-12	0812 hrs	none		X					-03		
CWTP (outfall 01E)-C	SW	VOA	3	12-19-12	0812 hrs	HCl	X						-03		
CWTP (outfall 01E)-D	SW	VOA	3	12-19-12	1400 hrs	none		X					-04		
CWTP (outfall 01E)-D	SW	VOA	3	12-15-12	1400 hrs	HCl	X						-04		*Sampled every 3 hrs
CWTP (outfall 01E)	SW	Amber 250ml	1	12-18-12	1650 hrs	H_2SO_4			X				-05		starting at 1650 hrs on
CWTP (outfall 01E)	SW	Poly 500ml	1	12-18-12	1650 hrs	NaOH				X			-05		12-18-12 and last
CWTP (outfall 01E)-A	SW	Amber 1L	1	12-18-12	1650 hrs	HCl					X		-05		sample collected at
CWTP (outfall 01E)-B	SW	Amber 1L	1	12-18-12	1650 hrs	HCl					X		-05		1400 hrs on 12-19-12
CWTP (outfall 01E)-A	SW	Amber 1L	1	12-15-12	24 hr composite	none						X	-06		*
CWTP (outfall 01E)-B	SW	Amber 1L	1	12-15-12	24 hr composite	none						X	-06		

Relinquished By:	Date/Time: 12-19-12/1530 hrs	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By: FedEx	Date/Time: 12-20-12 11:00	Received in Lab By: Sharon Malone	Date/Time: 12-20-12 11:00

Turnaround Time: (Check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (Check)
intact X on ice X

4.4°C + 1.0°C

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.

PVL1364

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] 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

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

Project/PO Number:
Project: NPDES Priority Pollutants (PP)
outfall 01E-CWTP
P.O. Number: 1005803389

Project Manager:
Arnold Stowman

Phone Number:
505-598-8443

Sampler:
Debra Yazzie & Carl Worlfolk

Fax Number:
505-598-8292

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: 608	Dioxin	Asbestos	PP metals	Rad chem	TOC	Sulfide	Sulfite	Color, Surfactants	Special Instructions
CWTP (outfall 01E)-A	SW	Amber 1L	1	12/18-19/12	24 hr composite	none	X								-06	* Sampled every 3hrs
CWTP (outfall 01E)-B	SW	Amber 1L	1	12/18-19/12	24 hr composite	none	X									starting at 1650hrs
CWTP (outfall 01E)-A	SW	Amber 1L	1	12/18-19/12	24 hr composite	none		X								on 12-18-12 and last
CWTP (outfall 01E)-B	SW	Amber 1L	1	12/18-19/12	24 hr composite	none		X								sample collected at
CWTP (outfall 01E)	SW	Poly 1L	1	12/18-19/12	24 hr composite	none			X							1400hrs on 12-19-12
CWTP (outfall 01E)	SW	Poly 500ml	1	12/18-19/12	24 hr composite	HNO_3				X						*
CWTP (outfall 01E)	SW	Cube 1gallon	1	12/18-19/12	24 hr composite	none					X					
CWTP (outfall 01E)	SW	VOA	3	12/18-19/12	24 hr composite	HCl						X				
CWTP (outfall 01E)	SW	Poly 500ml	1	12/18-19/12	24 hr composite	NaOH + Zn Acetate							X			
CWTP (outfall 01E)	SW	Poly 500ml	1	12/18-19/12	24 hr composite	none								X		
CWTP (outfall 01E)	SW	Poly 1L	1	12/18-19/12	24 hr composite	none									X	

Relinquished By:	Date/Time:	Received By:	Date/Time:	Turnaround Time: (Check)	
	12-19-12 / 1530hrs			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal ____
Relinquished By:	Date/Time:	Received in Lab By:	Date/Time:	Sample Integrity: (Check)	
Fed Ex	12-20-12 11:00	Sharon Malone	12-20-12 11:00	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°

PVL1364

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

TAL-0013-550 (10/10)

CHAIN OF CUSTODY FORM

[ ] 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

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

Project/PO Number:
Project: NPDES Priority Pollutants (PP)
outfall 01E - CWTP
Po. Number: 1000500389

Project Manager:
Arnold Slowman

Phone Number:
505 598-8443

Sampler:
Debra Yazzie & Carl Woolfolk

Fax Number:
505-598-8292

Sample Description	Sample Matrix	Container Type	# of Cont.	Sampling Date	Sampling Time	Preservatives	Analysis Required: NO3, NO2, Fluoride, Sulfate, Bromide, BOD	Analysis Required: TKN, Ammonia, Phosphorus, COD	Analysis Required	Analysis Required	Analysis Required	Analysis Required	Analysis Required	Analysis Required	Special Instructions
CWTP (outfall 01E)	SW	Poly 1L	1	12/18-19/12	24 hr composite	none	X						-06		* Sampled every 3 hrs. starting at 1650 hrs. on 12-18-12 and last sample collected at 1400 hrs. on 12-19-12.
CWTP (outfall 01E)	SW	Poly 500mL	1	12/18-19/12	24 hr composite	H_2SO_4		X					-06		
Trip Blank			2			HCl							-07		
Temp Blank			1												

Relinquished By	Date/Time	Received By	Date/Time	Turnaround Time: (Check)	
	12-19-12 / 1530 hrs.			same day ____	72 hours ____
Relinquished By:	Date/Time:	Received By:	Date/Time:	24 hours ____	5 days ____
				48 hours ____	normal ____
Relinquished By: Fed Ex	Date/Time: 12-20-12 11:00	Received in Lab By: Aaron Malone	Date/Time: 12-20-12 11:00	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

FIBERQUANT ANALYTICAL SERVICES

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 guidence. 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

QA Report: Job Number:	201211730

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 Requred This Job

3. Recounts (1/17 samples required)	Not Requred 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 602-276-4556

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

___ MCE ✓ PC Pore um: ___ 0.4 ___ 0.22 ✓ 0.1

Grid Orientation
Draw Asym Spot

Grid Information

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

Est. % Loading 3

System Information

TEM: ✓ Jeol N ___ Jeol S Mag: 20K or ___ Alignment: ✓ checked EDS: ___ calib ✓ not used

Ac. Volatage: ___ 100keV ✓ 120keV ___ keV

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

Fiber Counts:

Grid Storage # 126725 Acceptable Prep ✓ (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs

Location		Str. Type				Size		Morphology			Diffraction Data							EDXA Data							Ident.'n	
GO #	STR #	FIBER	BUNDLE	MATRIX	CLUSTER	Length	Width	TUBULAR	BLOCKY	Negative #	5.2 A Row Spacing	Estimated In-Row Spacing	CHRY	AMPH	NONASB	NO PATT	Negative #	Na	Mg	Si	Ca	Fe	Other	File #	ASBTYPE	NONASB
F9	NA																									
H8	NA																									
F15	NA																									
H14	NA																									
J13	NA																									
L12	NA																									
N11	NA																									

Grid Storage # 126727 Acceptable Prep ✓ (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs

J7	NA																									
L6	NA																									
F13	NA																									
H12	NA																									
L10	NA																									
N9	NA																									
N15	NA																									

Grid Storage # 126729 Acceptable Prep ✓ (>50% coverage, >50% intact, no folds, <5% opaque, 20 good GOs

F11	NA																									
H10	NA																									
J9	NA																									
L9	NA																									
N7	NA																									
N13	NA																									

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

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

Totals:	CH > 10	0	AP > 10	0	GOs Counted	20	*Results:*	Str/mm2	< 5	MFL	< 2.5

Analyst: _____ *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 KLK
Debra Yassie
Carl Woolfolk

COPY

20121730

Released By	1625 12/20/12 Date/Time	Kathy Knowles Received By	12-20-12 4:25 Date/Time
Released By	Date/Time	Received By	Date/Time

Radiation Safety Engineering, Inc.
3245 N. WASHINGTON ST. · CHANDLER, ARIZONA 85225-1121 (480) 897-9459
Website: www.radsafe.com 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
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