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OPEN MEETING AGENDA ITEM  
ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY

**WATER RADIOCHEMICAL ANALYSIS REPORT**

ORIGINAL

39

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<  
>>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

W-02105A-01-0557

[ 01/8/01/5/19 ] Mt. Tipton Water Co System Name

System ID \_\_\_\_\_ System Name Kevin Teter

[ 09/13/00 ] [ 08:30 ] (24 hr clock) Owner/Contact Person Name

Sample date Sample time ( ) \_\_\_\_\_ ext.

Owner/Contact Fax Number \_\_\_\_\_ Owner/Contact Person Phone Number

SAMPLE COLLECTION POINT ID

Point of entry # [ 004 ]

SAMPLE COLLECTION POINT/ID

Surface-DWR# [ \_\_\_\_\_ ]

Well - DWR# [ \_\_\_\_\_ ]

COMPLIANCE SAMPLE TYPE

Composite\* of four quarterly samples

Quarterly

Reduced Monitoring/Grab Sample

Date Q1 collected [ \_\_\_\_\_ ]

Date Q2 collected [ \_\_\_\_\_ ]

Date Q3 collected [ \_\_\_\_\_ ]

Date Q4 collected [ \_\_\_\_\_ ]

Arizona Corporation Commission  
**DOCKETED**  
DEC 18 2001

DOCKETED BY nac

RECEIVED  
2001 DEC 18 P 12:32  
AZ CORP COMMISSION  
DOCUMENT CONTROL

**\*\*\* RADIOCHEMICAL ANALYSIS \*\*\***  
To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results	Exceeds MCL
900.0	15 pCi/l	3 pCi/l	Gross Alpha**	4000	09/19/00	< 1.0	<input type="checkbox"/>
	5 pCi/l		Combined Radium (226,228)	4010			<input type="checkbox"/>
903.1		1 pCi/l	Radium 226	4020			
904.0		1 pCi/l	Radium 228	4030			
900.0	4 mrem	3pCi/l	Gross Beta	4100			<input type="checkbox"/>
906.0	20,000 pCi/l***		Tritium	4102			
905.0	8 pCi/l***		Strontium-90	4174			

>>> LABORATORY INFORMATION <<<  
To be filled out by laboratory personnel

SPECIMEN NUMBER [ WS10782 ]

ID Number [ AZ 0 / 4 / 6 / 2 ] Name: [ Radiation Safety Engineering, Inc. ]

Comments: [ BG08008 ]

Authorized Signature: [ Robert J. Metzger ]

Date Public Water System Notified: [ \_\_\_\_\_ ]

\* A composite radiochemical sample means four quarterly samples from a single sample point only.

\*\* Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (pCi/l) EXCEPT for gross beta which is reported in millirem per year.

\*\*\* These values are assumed to produce a total body or organ dose of 4 millirem per year.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
**DRINKING WATER RADIOCHEMICAL ANALYSIS REPORT**

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<  
 >>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

[ 018/10/519 ]  Mt. Tipton Water Co   
 System ID System Name  
 [ 09/13/00 ] [ 08:45 ] (24 hr clock)  Kevin Teter   
 Sample date Sample time Owner/Contact Person Name  
 ( ) ext.  
 Owner/Contact Fax Number Owner/Contact Person Phone Number

SAMPLE COLLECTION POINT ID  
 Point of entry # [ 003 ]

SAMPLE COLLECTION POINT/ID  
 Surface-DWR#[ \_\_\_\_\_ ]  
 Well - DWR#[ \_\_\_\_\_ ]

COMPLIANCE SAMPLE TYPE  
 Composite\* of four quarterly samples  
 Quarterly  
 Reduced Monitoring/Grab Sample  
 Date Q1 collected [ \_\_\_\_\_ ]  
 Date Q2 collected [ \_\_\_\_\_ ]  
 Date Q3 collected [ \_\_\_\_\_ ]  
 Date Q4 collected [ \_\_\_\_\_ ]

**\*\*\* RADIOCHEMICAL ANALYSIS \*\*\***  
 To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results	Exceeds MCL
900.0	15 pCi/l	3 pCi/l	Gross Alpha**	4000	09/19/00	< 1.0	<input type="checkbox"/>
	5 pCi/l		Combined Radium (226,228)	4010	_____	_____	<input type="checkbox"/>
903.1		1 pCi/l	Radium 226	4020	_____	_____	
904.0		1 pCi/l	Radium 228	4030	_____	_____	
900.0	4 mrem	3pCi/l	Gross Beta	4100	_____	_____	<input type="checkbox"/>
906.0	20,000 pCi/l***		Tritium	4102	_____	_____	
905.0	8 pCi/l***		Strontium-90	4174	_____	_____	

>>> LABORATORY INFORMATION <<<  
 To be filled out by laboratory personnel

SPECIMEN NUMBER  
 [ WS10783 ]  
 ID Number [ AZ 0 / 4 / 6 / 2 ] Name: [ Radiation Safety Engineering, Inc. ]  
 Comments: [ BG08009 ]  
 Authorized Signature: [ *Robert L. Smolger* ]  
 Date Public Water System Notified: [ \_\_\_\_\_ ]

\* A composite radiochemical sample means four quarterly samples from a single sample point only.  
 \*\* Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (pCi/l) EXCEPT for gross beta which is reported in millirem per year.  
 \*\*\* These values are assumed to produce a total body or organ dose of 4 millirem per year.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
**DRINKING WATER RADIOCHEMICAL ANALYSIS REPORT**

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<  
 >>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

[ 018101519 ]  Mt. Tipton Water Co   
 System ID System Name  
 [ 09 / 13 / 00 ] [ 09 : 00 ] (24 hr clock)  Kevin Teter   
 Sample date Sample time Owner/Contact Person Name  
 ( ) ext.  
 Owner/Contact Fax Number Owner/Contact Person Phone Number

SAMPLE COLLECTION POINT ID  
 Point of entry # [ 002 ]

SAMPLE COLLECTION POINT/ID  
 Surface-DWR#[ \_\_\_\_\_ ]  
 Well - DWR#[ \_\_\_\_\_ ]

COMPLIANCE SAMPLE TYPE  
 Composite\* of four quarterly samples  
 Quarterly  
 Reduced Monitoring/Grab Sample  
 Date Q1 collected [ \_\_\_\_\_ ]  
 Date Q2 collected [ \_\_\_\_\_ ]  
 Date Q3 collected [ \_\_\_\_\_ ]  
 Date Q4 collected [ \_\_\_\_\_ ]

**\*\*\* RADIOCHEMICAL ANALYSIS \*\*\***  
 To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results	Exceeds MCL
900.0	15 pCi/l	3 pCi/l	Gross Alpha**	4000	09/19/00	2.5 ± 0.6	<input type="checkbox"/>
	5 pCi/l		Combined Radium (226,228)	4010	_____	_____	<input type="checkbox"/>
903.1		1 pCi/l	Radium 226	4020	_____	_____	
904.0		1 pCi/l	Radium 228	4030	_____	_____	
900.0	4 mrem	3pCi/l	Gross Beta	4100	_____	_____	<input type="checkbox"/>
906.0	20,000 pCi/l***		Tritium	4102	_____	_____	
905.0	8 pCi/l***		Strontium-90	4174	_____	_____	

>>> LABORATORY INFORMATION <<<<  
 To be filled out by laboratory personnel

SPECIMEN NUMBER  
 [ WS10784 ]  
 ID Number [ AZ 0 / 4 / 6 / 2 ] Name: [ Radiation Safety Engineering, Inc. ]  
 Comments: [ BG08010 ]  
 Authorized Signature: [ *Robert L. Maffey* ]  
 Date Public Water System Notified: [ \_\_\_\_\_ ]

\* A composite radiochemical sample means four quarterly samples from a single sample point only.  
 \*\* Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (pCi/l) EXCEPT for gross beta which is reported in millirem per year.  
 \*\*\* These values are assumed to produce a total body or organ dose of 4 millirem per year.

ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY  
**DRINKING WATER RADIOCHEMICAL ANALYSIS REPORT**

>>>> PUBLIC WATER SYSTEM INFORMATION <<<<  
 >>>> TO BE FILLED OUT BY SYSTEM PERSONNEL <<<<

[ 0181015191 ] Mt. Tipton Water Co.  
 System ID System Name

[ 09 / 13 / 00 ] [ 09 : 15 ] (24 hr clock)  
 Sample date Sample time  
 ( ) ext.

Owner/Contact Fax Number Owner/Contact Person Phone Number

SAMPLE COLLECTION POINT ID SAMPLE COLLECTION POINT/ID  
 Point of entry # [ 001 ]  Surface-DWR#[ ]  
 Well - DWR#[ ]

COMPLIANCE SAMPLE TYPE  
 Composite\* of four quarterly samples  
 Quarterly  
 Reduced Monitoring/Grab Sample  
 Date Q1 collected [ ]  
 Date Q2 collected [ ]  
 Date Q3 collected [ ]  
 Date Q4 collected [ ]

**\*\*\* RADIOCHEMICAL ANALYSIS \*\*\***  
 To be filled out by laboratory personnel

Analysis Method	MCL Value	MDL Value	Contaminant Name	Cont. Code	Analysis Run Date	Results	Exceeds MCL
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903.1		1 pCi/l	Radium 226	4020			
904.0		1 pCi/l	Radium 228	4030			
900.0	4 mrem	3pCi/l	Gross Beta	4100			<input type="checkbox"/>
906.0	20,000 pCi/l***		Tritium	4102			
905.0	8 pCi/l***		Strontium-90	4174			

>>> LABORATORY INFORMATION <<<<  
 To be filled out by laboratory personnel

SPECIMEN NUMBER  
 [ WS10785 ]  
 ID Number [ AZ 0 / 4 / 6 / 2 ] Name: [ Radiation Safety Engineering, Inc. ]  
 Comments: [ BG08011 ]  
 Authorized Signature: [ *Robert J. Smith* ]  
 Date Public Water System Notified: [ ]

\* A composite radiochemical sample means four quarterly samples from a single sample point only.  
 \*\* Gross alpha is the value of all alpha particle emitters except for uranium and radon 222. Radium 226 is included in the reported gross alpha value. All units are reported in picocuries per liter (pCi/l) EXCEPT for gross beta which is reported in millirem per year.  
 \*\*\* These values are assumed to produce a total body or organ dose of 4 millirem per year.

# Aquatic Consulting & Testing

1525 W. University Dr.

Suite 106

Tempe, AZ 85281

ATTN: David Benjes

Phone (480) 921-8044

E-Mail Address: [actlab@sprintmail.com](mailto:actlab@sprintmail.com)

Fax (480) 921-0049

Subcontract Chain of Custody

LAB I.D. NUMBER

DATE: 15-Sep-00 PAGE 1 OF 1

**Subcontract Laboratory:**  
 Radiation Safety Engineers  
 3245 N. Washington Street  
 Chandler, AZ 85225  
 602-897-9459

AC&T Sample ID	Date	Time	Matrix	Lab ID	Gross Alpha	Gross Beta	Radio Chemistry								Number/Containers		
BG08008	13-Sep-00	8:30 AM	DW	10783	X												1
BG08009	13-Sep-00	8:45 AM	DW	10783	X												1
BG08010	13-Sep-00	9:00 AM	DW	10789	X												1
BG08011	13-Sep-00	9:15 AM	DW	10785	X												1
Project Name: <b>Sample Receipt</b>																	
Mt. Tipton					4												
Project Number					None												
Custody Seals:					Yes												
Received Intact:					Yes												
Received Cold:					No												
Notes:					Temperature: PRIORITY												
RELINQUISHED BY:					RELINQUISHED BY:												
Signature: <i>[Signature]</i>					Signature: <i>[Signature]</i>												
Name: Erica Sharp					Name: <i>[Signature]</i>												
Date: 9/15/00					Date: 9/15/00												
AQUATIC CONSULTING & TESTING					AQUATIC CONSULTING & TESTING												
SAMPLED RECEIVED BY:					SAMPLED RECEIVED BY:												
Signature: <i>[Signature]</i>					Signature: <i>[Signature]</i>												
Name: <i>[Signature]</i>					Name: <i>[Signature]</i>												
Date: 9/15/00					Date: 9/15/00												
Company: <i>[Signature]</i>					Company: <i>[Signature]</i>												