

2007 ANNUAL BIOSOLIDS REPORT



February 2007

**Ashley Valley Water Reclamation Facility
4000 E. 2200 S.
PO Box 426
Vernal, Utah 84078-0426
(435) 789-9805**

GENERAL FACILITY INFORMATION

Permit #: UTL-024511 State Permit #: _____
Facility: Ashley Valley Authority Name: _____
Water Reclamation Facility
Region: VIII Use for Analysis: _____
Hydro Logic Unit: Latitude: 40°25'34" Longitude: 109°27'26"
Field Office: _____ Plant Type: Ext. Aeration/Act. Sludge

Facility Physical Address:
Street: 4000 East 2200 South City/State: Vernal, Utah
County: Uintah Zip Code: 84078
Phone: (435) 789-9805

Facility Mailing Address:
PO Box: 426 City/State: Vernal, Utah
County: Uintah Zip Code: 84078-0426
Phone: (435) 789-9805

Operator-in-Charge: Dean Gibbs
Title: Senior Operator Phone: (435) 789-9805 Fax: (435) 789-9806
License No. 1461R1012044 Certification Grade: IV

Responsible Official: Pryor Harrell
Title: General Manager

Contact Person: Pryor Harrell (or Dean Gibbs)
Title: General Manager Email: pryor@avwrf.org
Phone: (435) 789-9805 Fax: (435) 789-9806

Permit Issued: May 1, 2006 Permit Expires: Jan. 31, 2011 Last Inspection: April 26, 2005

Inf. Flow (MGD) 2.25 Inf. TSS (mg/L) 244 Inf. BOD (mg/L) 152

Active Status? (A/I): A Major/Minor? (J/N): J Pretreatment? (Y/N): N
Indian Lands? (Y/N): N Class I? (Y/N): Y Report Required? (Y/N): Y
Facility send biosolids out of state? (Y/N): N

Initial	Date	
_____	_____	Transfer
_____	_____	Transfer QA
_____	_____	Data Entry
_____	_____	Data Entry QA

BIOSOLIDS TREATMENT PROVIDED (Number of Units)

THICKENING:

1. Gravity Belt	1
2. DAF	0
3. Centrifuge	0
4. _____	

STABILIZATION:

5. Aerobic Digesters	0
6. Anaerobic Digesters	0
7. Heat Treat	0
8. Wet Oxidation	0
9. Chemical (Lime) Stab	0
10. Composting	8 piles
11. Biosolids Lagoons	
12. _____	

CONDITIONING:

13. Chemical Cond	0
14. Polymer	5,875 lbs.

DEWATERING:

15. Vacuum Filter	0
16. Pressure Filter	0
17. Belt Filter	1
18. Drying Bed	0
19. Drying Lagoon	0
20. Heat Drying	0
21. Centrifuge	0
22. Thermal Drying Pad	3.5 acres

OTHER:

23. Wastewater Lagoon	0
24. Mixing of Biosolids	0
25. Oxidation Ditch	0
26. Incineration	0
27. Septage	0
28. _____	0

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- A. *Biosolids remaining from 2006.*
145.1 dry metric tons were stored on site from 2006
- B. *Biosolids produced during 2007 in dry metric tons.*
533.4 dry metric tons were produced in 2007
- C. *Class A Biosolids produced in 2007 including the 145.1 dmt stored from 2006.*
599.3 dry metric tons
- D. *Class A Biosolids given away or sold in 2007.*
546.2 dry metric tons
- E. *Class A Biosolids stored at AVWRF and carried over to 2008.*
0 dry metric tons (stored at AVWRF drying pad)
- F. *Biosolids thermal dried and composted but not tested.*
272.5 dry metric tons (stored at AVWRF drying pad)
- G. *Biosolids thermal dried only; not composted or tested.*
326.9 dry metric tons (stored at AVWRF drying pad)
- H. *Biosolids not thermal dried, composted or tested.*
78.9 dry metric tons (stored at AVWRF drying pad)

SUMMARY ATTACHMENT

FINAL USE/DISPOSAL (dmt/yr) PRACTICES FOR 2007

TOTAL ANNUAL PRODUCTION (Pre-digestion) 533.4 dmt

TOTAL ANNUAL PRODUCTION (Post-digestion) _____ dmt

LAND APPLICATION (Total)	0 dmt
Bulk Biosolids	0 dmt
Derived Material	0 dmt
Agricultural Land	0 dmt
Range Land	0 dmt
Public Contact	0 dmt
Reclamation Site	0 dmt
Sold or Given Away	546.2 dmt
Lawn or Garden	0 dmt

SURFACE DISPOSAL (Total)	0 dmt
With Liner & LCS	0 dmt
Without Liner & LCS	0 dmt

LANDFILL (Total)	0 dmt
Landfill Disposal	0 dmt
Landfill Cover	0 dmt
Landfill Name	
Does Landfill Meet 40 DVR 258? (Y/N)	n/a

INCINERATION 0 dmt

TRANSPORTATED FROM 0 dmt

TRANSPORTED TO 0 dmt

Name: N/A

Address: _____

State: _____

Phone: _____

Other: _____

STORED: (at AVWRF)

 From 2006: 145.1 dmt

 From 2007: 533.4 dmt

LONG TERM TREATMENT: 0 dmt

Was agricultural application used for any of the sites? (Y/N) N

Pathogen Certification? (Y/N/NA) Y

VAR Certification? (Y/N/NA) Y

Management Practice Certification? (Y/N/NA) Y

Landfill Certification? (Y/N/NA) NA

MONITORING DATA SUMMARY

(Composted Sludge)

Final Use/Disposal Practice: Class A Biosolid Compost

No. of Analysis required per monitoring year of 2007: Four per year (> 290 to < 1500 dmt.)

(In 2007 we produced 533.4 dmt that were composted in 2006/2007 and met Class A Biosolid Compost)

Approved Methods? (Y/N) Y

Required Metals? (Y/N) Y

Test Results of 2006 Class A Biosolids Sold in 2007

POLLUTANTS	YEARLY AVERAGE	YEARLY MAXIMUM	ANALYSIS PER YEAR
Arsenic	5	41.0	4
Cadmium	3	39.0	4
Copper	737	1500	4
Lead	150	300	4
Mercury	<1	17.0	4
Molybdenum	16	75.0	4
Nickel	25	420.0	4
Selenium	5.77	36.0	4
Zinc	931	2800.0	4
Salmonella (#/g)	<3 MPN/g pass		
Helminth Ova (#/g)	0 per 4 grams dry weight		
Enteric Virus (PFU/g)	0 per 4 grams dry weight		
Paint Filter Test? (P/F)	N/A	TCLP? (P/F/NA)	NA

PATHOGEN AND VECTOR ATTRACTION REDUCTION

(use X to indicate options that apply)

PATHOGEN REDUCTION

VECTOR ATTRACTION REDUCTION

CLASS A

METHOD PASSED

- | | | | |
|--------------------------------|---|-------------------------------------|---|
| 1. Time/Temperature (TNT) | X | 1. 38% Volatile Solids Reduction | |
| 2. Alkaline Treatment (PH&T&T) | | 2. BENCH Anaerobic Digestion | |
| 3. Prior Testing (EV or VHO) | X | 3. BENCH aerobic Digestion | |
| 4. PFRP Method | | 4. Aerobic Digestion (SOUR) | |
| • Composting | X | 5. Aerobic Process (14 DAYGT40) | |
| • Heat Treating | | 6. Alkaline Stabilization (PH122HR) | |
| • Heat Drying | | 7. Drying (%TSGT75) | |
| • Aerobic Digestion | | 8. Drying (%TSGT90) | |
| • Beta Ray Irradiation | | 9. Injection | |
| • Gamma Ray Irradiation | | 10. Incorporation | |
| • Pasteurization | | 11. Surface Disposal Daily Cover | |
| • 999) No Method Reported | | 12. Domestic Septage Treatment | |
| 5. Equivalent PFRP | | 13. Other - 90° F + for >15 days | X |

CLASS B

1. Prior Testing for Fecal Coliform
2. PSRP Method
 - Aerobic Digestion
 - Air Drying
 - Anaerobic Digestion
 - Composting
 - Lime Stabilization
 - 999) No Method Reported
3. Equivalent PSRP