CASE NARRATIVE Client: Sundance Consulting, Inc. Project: Fort Wingate, New Mexico Report Number: 280-76268-2

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

Sample Receipt

Seven samples were received on 11/3/2015 9:20 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 11 coolers at receipt time were 0.3°C, 0.6°C, 0.6°C, 0.7°C, 1.5°C, 1.6°C, 1.7°C, 1.9°C, 2.2°C, 2.6°C and 3.1°C.

Additional samples/analyses requested on the chain-of-custody are reported under separate cover (280-76268-1 & 280-76268-3).

No other anomalies were encountered during sample receipt.

GC/MS Semivolatiles - 8270D

Samples FW31102015EQU002 (280-76268-3), FW3112015 (280-76268-4), TMW35102015 (280-76268-6), MW22S102015 (280-76268-7), MW22D102015 (280-76268-8), MW20102015 (280-76268-9) and DMW20102015 (280-76268-10) were analyzed for semivolatile organic compounds (GC-MS) in accordance with SW-846 8270D. The samples were prepared on 11/04/2015 and analyzed on 11/24/2015.

Please note the Caprolactam data are reported under separate cover, as the laboratory does not hold DOD ELAP certification for this compound. The laboratory does not maintain quarterly QC requirements for precision, accuracy and detections.

Reporting limits and method detection limits have been adjusted accordingly for the initial volumes extracted.

No other analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Field QC Assignments and Associated Samples EDD File Name: 280-76268-2 eQapp Name: FtWingate_Primary_120405

	Associated Samples	Sample Collection Date
Field QC DMW20102015 QC Type: FD		
	MW20102015	11/2/2015 10:30:00 AM
Field QC FW31102015EQU002		
	DMW20102015	11/2/2015 10:30:00 AM
	FW3112015	11/2/2015 11:05:00 AM
	MW20102015	11/2/2015 10:30:00 AM
	MW22D102015	11/2/2015 12:10:00 PM
	MW22S102015	11/2/2015 11:15:00 AM



Data Qualifier Summary

Lab Reporting Batch ID: 280-76268-2 EDD Filename: 280-76268-2 Laboratory: TA DEN eQAPP Name: FtWingate_Primary_120405

No Data Review Qualifiers Applied.



Data Review Summary

Lab Reporting Batch ID: 280-76268-2 EDD Filename: 280-76268-2

Laboratory: TA DEN eQAPP Name: FtWingate_Primary_120405

Validation Area	Note
Technical Holding Times	A
Temperature	A
Initial Calibration	Ν
Continuing Calibration/Initial Calibration Verification	N
Method Blanks	A
Surrogate/Tracer Spikes	SR
Matrix Spike/Matrix Spike Duplicates	А
Laboratory Duplicates	N
Laboratory Replicates	N
Laboratory Control Samples	A
Compound Quantitation	A
Field Duplicates	A
Field Triplicates	N
Field Blanks	A

A = Acceptable, N = Not provided/applicable, SR = See report

The contents of this report reflect findings made by ADR during Automated Data Review, manual applied qualifiers are not considered. Please refer to the Overall Qualifier Summary report for manual qualifiers.

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Data Review Sample Summary Report by Analysis Method

Reviewed By:			Approved By:			Laboratory: TA DEN		
Client Sample ID	Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code		
Lab Reporting Batc	h: 280-76268-2							
Method: 8270D								
DMW20102015	280-76268-10	AQ	FD	3520C	11/2/2015 10:30:00 AM	S2AVE		
FW31102015EQU002	280-76268-3	AQ	EB	3520C	11/2/2015 9:30:00 AM	S2AVE		
FW3112015	280-76268-4	AQ	Ν	3520C	11/2/2015 11:05:00	S2AVE		
MW20102015	280-76268-9	AQ	Ν	3520C	11/2/2015 10:30:00	S2AVE		
MW20102015MS	280-76268-9MS	AQ	MS	3520C	11/2/2015 10:30:00	S2AVE		
MW20102015MSD	280-76268-9MSD	AQ	MSD	3520C	11/2/2015 10:30:00 AM	S2AVE		
MW22D102015	280-76268-8	AQ	Ν	3520C	11/2/2015 12:10:00 PM	S2AVE		
MW22S102015	280-76268-7	AQ	Ν	3520C	11/2/2015 11:15:00	S2AVE		
TMW35102015	280-76268-6	AQ	Ν	3520C	۵м 11/2/2015 9:55:00 AM	S2AVE		

Ĭ	Data Review	Sample S	Summary Report	by Analysis	Method	
Reviewed By:			Approved By:		Labo	ratory: TA DEN
Client Sample I	D Lab Sample ID	Matrix	Sample Type	Preparation Method	Collection Date	Validation Code
Validation I	Label Legend					
Label Code	Label Decription		EPA Level			
S1VE	Stage_1_Validation_Electronic		N/A			
S1VM	Stage_1_Validation_Manual		N/A			
S1VEM	Stage_1_Validation_Electronic_and_M	anual	N/A			
S2AVE	Stage_2A_Validation_Electronic		Level 3 w/o calibr	ration		
S2AVM	Stage_2A_Validation_Manual		Level 3 w/o calibr	ration		
S2AVEM	Stage_2A_Validation_Electronic_and_Manual		Level 3 w/o calibr	ration		
S2BVE	Stage_2B_Validation_Electronic		Level 3 with calibration			
S2BVM	Stage_2B_Validation_Manual		Level 3 with calib	oration		
S2BVEM	Stage_2B_Validation_Electronic_and_I	Manual	Level 3 with calib	oration		
S3VE	Stage_3_Validation_Electronic		Level 4			
S3VM	Stage_3_Validation_Manual		Level 4			
S3VEM	Stage_3_Validation_Electronic_and_M	anual	Level 4			
S4VE	Stage_4_Validation_Electronic		Level 4			
S4VM	Stage_4_Validation_Manual		Level 4			
S4VEM	Stage_4_Validation_Electronic_and_M	anual	Level 4			
NV	Not_Validated		N/A			

Data Review Sample Summary Report by Analysis Method

Surrogate Outlier Report

Lab Reporting Batch ID: 280-76268-2

Laboratory: TA DEN

EDD Filename: 280-76268-2

eQAPP Name: FtWingate_Primary_120405

Method: 8270D Matrix: AQ						
Sample ID (Analysis Type)	Surrogate	Sample % Recovery	% Recovery Limits	Affected Compounds	Flag	
DMW20102015	Terphenyl-d14	37	50.00-135.00	No Affected Compounds		
MW20102015	Terphenyl-d14	36	50.00-135.00	No Affected Compounds		
MW22D102015	Terphenyl-d14	36	50.00-135.00	No Affected Compounds		
MW22S102015	Terphenyl-d14	26	50.00-135.00	No Affected Compounds		