



Panhandle Region

May 17, 2001 SAFB Cannon
Permit File Red
2001 2001
4515 S. Georgia, Suite 129 -- Amarillo, TX 79110
806/355-3556 FAX 806/355-3773

Report Date: 05/03/2001

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27CES/CEV
506 N. D.L. Ingram
Contr. F2960599A0010
Cannon AFB, NM 88103-5136
Attention: Tommy Downing

Project Report: 155068
Client: CAFB
Project:
CAFB 040401



May 17, 2001

Did not sample
Production Well 2

Perchlorate
Results for Project 155068 Perchlorate Results - Based on Cannon sampling

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	88.9	%		0.1	EPA Method 160.3	04/05/2001 1635	EAM	
Perchlorate	ND *	mg/kg		0.0450	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	90.0	%		0.1	EPA Method 160.3	04/05/2001 1635	EAM	
Perchlorate	ND *	mg/kg		0.444	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	81.1	%		0.1	EPA Method 160.3	04/05/2001 1635	EAM	
Perchlorate	ND *	mg/kg		0.493	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	82	%		0.1	EPA Method 160.3	04/06/2001 1548	EAM	
Perchlorate	ND *	mg/kg		0.488	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	84	%		0.1	EPA Method 160.3	04/06/2001 1548	EAM	
Perchlorate	ND *	mg/kg		0.476	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	70	%		0.1	EPA Method 160.3	04/06/2001 1548	EAM	
Perchlorate	ND *	mg/kg		0.571	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	88.0	%		0.1	EPA Method 160.3	04/06/2001 1548	EAM	
Perchlorate	ND *	mg/kg		0.455	Ion Chromatography	05/01/2001 1215	GDG	

* Dry Weight Basis

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Project Report: 15506
 Client: CAFB
 Project: CAFB 040401

* Dry Weight Basis

489207 CSL-4 Perchlorate Analysis/Call 1912

Soil Taken: 03/23/2001 1006 By: Client Rec:04/04/2001

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	81.5	%		0.1	EPA Method 160.3	04/06/2001	1548 EAM	
Perchlorate	ND *	mg/kg		0.491	Ion Chromatography	05/01/2001	1215 GDG	

* Dry Weight Basis

489208 CSL-5 Perchlorate Analysis/Call 1913

Soil Taken: 03/23/2001 1014 By: Client Rec:04/04/2001

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Total Solids	82.5	%		0.1	EPA Method 160.3	04/06/2001	1548 EAM	
Perchlorate	ND *	mg/kg		0.485	Ion Chromatography	05/01/2001	1215 GDG	

* Dry Weight Basis

489209 SW-1 Perchlorate Analysis/Call 1914

Liquid Aqueous Taken: 03/30/2001 0828 By: Client

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Perchlorate	ND	mg/L		0.0400	Ion Chromatography	05/01/2001	1215 GDG	

489210 SW-2 Perchlorate Analysis/Call 1915

Liquid Aqueous Taken: 03/30/2001 0835 By: Client

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Perchlorate	ND	mg/L		0.0400	Ion Chromatography	05/01/2001	1215 GDG	

489211 SW-3 Perchlorate Analysis/Call 1916

Liquid Aqueous Taken: 03/30/2001 0840 By: Client

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Perchlorate	ND	mg/L		0.0400	Ion Chromatography	05/01/2001	1215 GDG	

489212 SW-4 Perchlorate Analysis/Call 1917

Liquid Aqueous Taken: 03/30/2001 0846 By: Client

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
Perchlorate	ND	mg/L		0.0400	Ion Chromatography	05/01/2001	1215 GDG	

489213 Call 1918 Sample #1

Soil Taken: 03/28/2001 1125 By: Gene A Smith Rec:04/04/2001

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
TPH Diesel Range Organics	ND	mg/kg		2.0	EPA Method 8015B MOD	04/13/2001	0740 KLB	

489214 Call 1919 Sample #2

Soil Taken: 03/28/2001 1129 By: Gene A Smith Rec:04/04/2001

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
TPH Diesel Range Organics	61	mg/kg		2.0	EPA Method 8015B MOD	04/13/2001	0740 KLB	
Benzene	ND	ug/kg		50.0	EPA Method 8260B	04/10/2001	2116 GDG	71-43-2
Ethylbenzene	ND	ug/kg		250	EPA Method 8260B	04/10/2001	2116 GDG	100-41-4
Toluene	ND	ug/kg		250	EPA Method 8260B	04/10/2001	2116 GDG	108-88-3
Xylenes, Total	ND	ug/kg		250	EPA Method 8260B	04/10/2001	2116 GDG	95-47-6,

489215 Call 1920 Sample #3

Soil Taken: 03/28/2001 1132 By: Gene A Smith Rec:04/04/2001

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
TPH Diesel Range Organics	50	mg/kg		2.0	EPA Method 8015B MOD	04/13/2001	0740 KLB	





Project Report: 155068

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Results for Project 155068

Parameter	Result	Unit	Flag	RL	Method	Analyzed	By	CAS
489216 Call 1921 Sample #4								
TPH Diesel Range Organics	20	mg/kg		2.0	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Soil Taken: 03/28/2001 1143 By: Gene A Smith Rec:04/04/2001								
489217 Call 1922 Sample #5								
TPH Diesel Range Organics	11200	mg/kg		20	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Soil Taken: 03/28/2001 1147 By: Gene A Smith Rec:04/04/2001								
489218 Call 1923 Sample #6								
Hydrazine	ND *	mg/kg		52.4	ASTM Method D2790-83 04/09/2001 1400 MAM			
Total Solids	95.5	%		0.1	EPA Method 160.3 04/06/2001 1548 EAM			
Ammonia Nitrogen	47.7 *	mg/kg		1.05	EPA Method 350.1 04/16/2001 0900 RSV			
Total Kjeldahl Nitrogen	445 *	mg/kg		10.5	EPA Method 351.2 04/05/2001 1500 RSV			
* Dry Weight Basis								
9 Call 1924 Sample #7								
Hydrazine	ND *	mg/kg		64.9	ASTM Method D2790-83 04/09/2001 1400 MAM			
Total Solids	77.0	%		0.1	EPA Method 160.3 04/06/2001 1548 EAM			
Ammonia Nitrogen	41.6 *	mg/kg		1.30	EPA Method 350.1 04/16/2001 0900 RSV			
Total Kjeldahl Nitrogen	362 *	mg/kg		13.0	EPA Method 351.2 04/05/2001 1500 RSV			
* Dry Weight Basis								
489220 Call 1925 Sample #8								
TPH Diesel Range Organics	14100	mg/kg		20	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Benzene	408	ug/kg		200	EPA Method 8260B 04/11/2001 1307 GDG			71-43-2
Ethylbenzene	26900	ug/kg		1000	EPA Method 8260B 04/11/2001 1307 GDG			100-41-4
Toluene	13800	ug/kg		1000	EPA Method 8260B 04/11/2001 1307 GDG			108-88-3
Xylenes, Total	49500	ug/kg		1000	EPA Method 8260B 04/11/2001 1307 GDG			95-47-6,
Soil Taken: 03/28/2001 1254 By: Gene A Smith Rec:04/04/2001								
489221 Call 1926 Sample #9								
TPH Diesel Range Organics	ND	mg/kg		2.0	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Soil Taken: 03/28/2001 1156 By: Gene A Smith Rec:04/04/2001								
489222 Call 1927 Sample #10								
TPH Diesel Range Organics	11700	mg/kg		20	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Soil Taken: 03/28/2001 1252 By: Gene A Smith Rec:04/04/2001								
489223 Call 1928 Sample #11								
TPH Diesel Range Organics	5280	mg/kg		20	EPA Method 8015B MOD 04/13/2001 0740 KLB			
Soil Taken: 03/28/2001 1258 By: Gene A Smith Rec:04/04/2001								





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Results for Project 155068

Sample ID	Sample Description	Soil Taken	By	Rec
489224	Call 1929 Sample #12	03/28/2001 1300	Gene A Smith	04/04/2001
Parameter	Result	Unit	Flag	RL
TPH Diesel Range Organics	14000	mg/kg		20
Method	Analyzed	By	CAS	
EPA Method 8015B MOD	04/13/2001 0740	KLB		
489225	Call 1930 Sample #13	03/28/2001 1128	Gene A Smith	04/04/2001
Parameter	Result	Unit	Flag	RL
TPH Diesel Range Organics	16.5	mg/kg		2.0
Method	Analyzed	By	CAS	
EPA Method 8015B MOD	04/13/2001 0740	KLB		
489226	Call 1931 Sample #14	03/28/2001 1140	Gene A Smith	04/04/2001
Parameter	Result	Unit	Flag	RL
TPH Diesel Range Organics	8.7	mg/kg		2.0
Method	Analyzed	By	CAS	
EPA Method 8015B MOD	04/13/2001 0740	KLB		
489227	Call 1904	04/03/2001 0751	SCT	04/04/2001
Parameter	Result	Unit	Flag	RL
TCLP Lead (Reg. Limit 5.0)	ND	mg/L		1.25
Method	Analyzed	By	CAS	
EPA Method 6020	04/11/2001 0800	WOB		7439-92-1

Sample Preparation Steps for Project 155068

Sample ID	Sample Description	Soil Taken	By	Rec
489200	CNL-1 Perchlorate Analysis/Call 1905	03/23/2001 0919	Client	04/04/2001
Parameter	Result	Unit	Method	Analyzed
As Received to Dry Weight	Converted		Calculation	05/03/2001
Water Extract-Ion	40/4	mL/g	EPA Method 300.0	04/06/2001 1100 ESI
489201	CNL-2 Perchlorate Analysis/Call 1906	03/23/2001 0921	Client	04/04/2001
Parameter	Result	Unit	Method	Analyzed
As Received to Dry Weight	Converted		Calculation	05/03/2001
Water Extract-Ion	40/4	mL/g	EPA Method 300.0	04/06/2001 1100 ESI
489202	CNL-3 Perchlorate Analysis/Call 1907	03/23/2001 0930	Client	04/04/2001
Parameter	Result	Unit	Method	Analyzed
As Received to Dry Weight	Converted		Calculation	05/03/2001
Water Extract-Ion	40/4	mL/g	EPA Method 300.0	04/06/2001 1100 ESI
489203	CNL-D Perchlorate Analysis/Call 1908	03/23/2001 0935	Client	04/04/2001
Parameter	Result	Unit	Method	Analyzed
As Received to Dry Weight	Converted		Calculation	05/03/2001
Water Extract-Ion	40/4	mL/g	EPA Method 300.0	04/06/2001 1100 ESI
489204	CSL-1 Perchlorate Analysis/Call 1909	03/23/2001 0945	Client	04/04/2001
Parameter	Result	Unit	Method	Analyzed
As Received to Dry Weight	Converted		Calculation	05/03/2001
Water Extract-Ion	40/4	mL/g	EPA Method 300.0	04/06/2001 1100 ESI



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Sample Preparation Steps for Project 155068

489205 CSL-2 Perchlorate Analysis/Call 1910

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Water Extract-Ion	40/4	mL/g

Soil Taken: 03/23/2001 0950 By: Client Rec:04/04/2001
Method Analyzed By
Calculation 05/03/2001 CAL
EPA Method 300.0 04/06/2001 1100 ESI

489206 CSL-3 Perchlorate Analysis/Call 1911

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Water Extract-Ion	40/4	mL/g

Soil Taken: 03/23/2001 1001 By: Client Rec:04/04/2001
Method Analyzed By
Calculation 05/03/2001 CAL
EPA Method 300.0 04/06/2001 1100 ESI

489207 CSL-4 Perchlorate Analysis/Call 1912

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Water Extract-Ion	40/4	mL/g

Soil Taken: 03/23/2001 1006 By: Client Rec:04/04/2001
Method Analyzed By
Calculation 05/03/2001 CAL
EPA Method 300.0 04/06/2001 1100 ESI

8 CSL-5 Perchlorate Analysis/Call 1913

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Water Extract-Ion	40/4	mL/g

Soil Taken: 03/23/2001 1014 By: Client Rec:04/04/2001
Method Analyzed By
Calculation 05/03/2001 CAL
EPA Method 300.0 04/06/2001 1100 ESI

489213 Call 1918 Sample #1

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1125 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
Methods 8000/8100MOD 04/11/2001 1000 DLH

489214 Call 1919 Sample #2

Parameter	Result	Unit
BTEX by GC/MS	Verified	
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1129 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
EPA Method 8260B 04/10/2001 2116 GDG
Methods 8000/8100MOD 04/11/2001 1000 DLH

489215 Call 1920 Sample #3

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1132 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
Methods 8000/8100MOD 04/11/2001 1000 DLH

489216 Call 1921 Sample #4

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1143 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
Methods 8000/8100MOD 04/11/2001 1000 DLH

489217 Call 1922 Sample #5

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1147 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
Methods 8000/8100MOD 04/11/2001 1000 DLH

489218 Call 1923 Sample #6

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Ammonia Distillation	50/1	mL/g

Soil Taken: 03/28/2001 1152 By: Gene A Smith Rec:04/04/2001
Method Analyzed By
Calculation 05/03/2001 CAL
EPA Method 350.2 04/09/2001 0900 MDW





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Sample Preparation Steps for Project 155068

489218 Call 1923 Sample #6

Parameter	Result	Unit
TKN Block Digestion	20/1	mL/g

Soil Taken: 03/28/2001 1152 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 EPA Method 351.2 04/05/2001 0830 PJD

489219 Call 1924 Sample #7

Parameter	Result	Unit
As Received to Dry Weight	Converted	
Ammonia Distillation	50/1 A/B/S	mL/g
TKN Block Digestion	20/1	mL/g

Soil Taken: 03/28/2001 1200 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Calculation 05/03/2001 CAL
 EPA Method 350.2 04/09/2001 0900 MDW
 EPA Method 351.2 04/05/2001 0830 PJD

489220 Call 1925 Sample #8

Parameter	Result	Unit
BTEX by GCMS	Verified	
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1254 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 EPA Method 8260B 04/11/2001 1307 GDG
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489221 Call 1926 Sample #9

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1156 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489222 Call 1927 Sample #10

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1252 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489223 Call 1928 Sample #11

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1258 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489224 Call 1929 Sample #12

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1300 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489225 Call 1930 Sample #13

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30	mL/g

Soil Taken: 03/28/2001 1128 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489226 Call 1931 Sample #14

Parameter	Result	Unit
GC TPH Liquid-Solid Extraction	1/30 A/B	mL/g

Soil Taken: 03/28/2001 1140 By: Gene A Smith Rec:04/04/2001
 Method Analyzed By
 Methods 8000/8100MOD 04/11/2001 1000 DLH

489227 Call 1904

Parameter	Result	Unit
TCLP Extraction: Non-Volatile	SOL EXT #1	
Metals Digestion - TCLP 3050 FI	50/4 A/S/S	mL/g

Organic Liquid Taken: 04/03/2001 0751 By: SCT Rec:04/04/2001
 Method Analyzed By
 EPA Method 1311 04/05/2001 1555 KKM
 EPA Method 3050B 04/10/2001 0830 PJD





Panhandle Region

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Sample Preparation Steps for Project 155068

489228 Call 1932 - Contract Support Comp: 4/3 0730 - 900 Liquid Aqueous Taken: 04/03/2001 COMP By: SCT/SC

Parameter	Result	Unit	Method	Analyzed	By
Special Sampling Fee	Verified			04/05/2001	CAL

Sample Specific Quality Control/Quality Assurance

489214 Call 1919 Sample #2

Soil Taken: 03/28/2001 1129 By: Gene A Smith Rec:04/04/2001

EPA Method 8260B Surrogate/Spike on Sample 489214 04/10/2001 1

Compound	Result	Concentration	% Recovery
Dibromofluoromethane-SURR	24.9	24.0	104 (74.53-117.2)
Toluene-d8 -SURR	25.4	24.0	106 (86.32-110.5)
Bromofluorobenzene-SURR	21.0	24.0	87.5 (76.35-127.2)

Internal Standard Areas on Sample 489214 04/10/2001 1

Compound	IS Area	CCC IS Area	Status
Pentachlorobenzene-ISTD	100300	104400	
1,4-Difluorobenzene-ISTD	163800	170200	
Chlorobenzene-d5-ISTD	45170	44030	
1,4-Dichlorobenzene-d4-ISTD	88830	80600	

489220 Call 1925 Sample #8

Soil Taken: 03/28/2001 1254 By: Gene A Smith Rec:04/04/2001

EPA Method 8260B Surrogate/Spike on Sample 489220 04/11/2001 1

Compound	Result	Concentration	% Recovery
Dibromofluoromethane-SURR	22.0	24.0	91.7 (74.53-117.2)
Toluene-d8 -SURR	21.5	24.0	89.6 (86.32-110.5)
Bromofluorobenzene-SURR	26.2	24.0	109 (76.35-127.2)

Internal Standard Areas on Sample 489220 04/11/2001 1

Compound	IS Area	CCC IS Area	Status
Pentafluorobenzene-ISTD	101400	108800	
1,4-Difluorobenzene-ISTD	164700	172000	
Chlorobenzene-d5-ISTD	49900	45850	
1,4-Dichlorobenzene-d4-ISTD	99110	86790	

Organic Quality Control/Quality Assurance for Project 155068

EPA Method 8260B Blank 04/10/2001 1

Compound	Result
Benzene	ND
Chlorobenzene	ND
1,1-Dichloroethylene	ND
Methylene Chloride	ND
o-Dichlorobenzene	ND
Tri-chloroethylene	ND



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Organic Quality Control/Quality Assurance for Project 155068

EPA Method 8260B Instrument Tune 04/10/2001 1						
Mass	Reference Mass	Min Abundance	Max Abundance	Result	Status	
BFB Mass 50	95	15.0	40.0	23.1	PASS	
BFB Mass 75	95	30.0	60.0	50.9	PASS	
BFB Mass 95	95	100	100	100.0	PASS	
BFB Mass 96	95	5.00	9.00	6.5	PASS	
BFB Mass 173	174	0	2.00	0.0	PASS	
BFB Mass 174	95	50.0	100	74.2	PASS	
BFB Mass 175	174	5.00	9.00	5.1	PASS	
BFB Mass 176	174	95.0	101	97.0	PASS	
BFB Mass 177	176	5.00	9.00	6.3	PASS	

Instrument Calibration Check 04/10/2001 1				
Compound	Max %Rel. Std.	%Deviation	Status	
Chloroform	20.0	3.9	PASS	
1,1-Dichloroethylene	20.0	1.4	PASS	
1,2-Dichloropropane	20.0	6.0	PASS	
Ethylbenzene	20.0	3.9	PASS	
Toluene	20.0	3.1	PASS	
Vinyl Chloride	20.0	7.1	PASS	

EPA Method 8260B Blank 04/11/2001 1			
Compound	Result		
Benzene	ND		
Chlorobenzene	ND		
1,1-Dichloroethylene	ND		
Methylene Chloride	ND		
Toluene	ND		
Trichloroethylene	ND		

EPA Method 8260B Instrument Tune 04/11/2001 1						
Mass	Reference Mass	Min Abundance	Max Abundance	Result	Status	
BFB Mass 50	95	15.0	40.0	24.1	PASS	
BFB Mass 75	95	30.0	60.0	50.5	PASS	
BFB Mass 95	95	100	100	100.0	PASS	
BFB Mass 96	95	5.00	9.00	7.1	PASS	
BFB Mass 173	174	0	2.00	0.0	PASS	
BFB Mass 174	95	50.0	100	73.1	PASS	
BFB Mass 175	174	5.00	9.00	5.2	PASS	
BFB Mass 176	174	95.0	101	96.4	PASS	
BFB Mass 177	176	5.00	9.00	6.6	PASS	

Instrument Calibration Check 04/11/2001 1				
Compound	Max %Rel. Std.	%Deviation	Status	
Chloroform	20.0	5.1	PASS	

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Organic Quality Control/Quality Assurance for Project 155068

1,1-Dichloroethylene	20.0	3.4	PASS
1,2-Dichloropropane	20.0	2.2	PASS
Ethylbenzene	20.0	1.4	PASS
Toluene	20.0	-2.4	PASS
Vinyl Chloride	20.0	.1	PASS

EPA Method 8260B Instrument System Performance Check 04/11/2001 1

Compound	Min Response Factor	Response Factor	Status
Bromoform	.1010	0.747	PASS
Chlorobenzene	.3000	3.015	PASS
Chloromethane	.1000	0.472	PASS
1,1-Dichloroethane	.1000	0.783	PASS
1,1,2,2-Tetrachloroethane	.3000	0.739	PASS

SET Quality Control/Quality Assurance for Project 155068

TPH Diesel Range Organics (DRO)

(Analyzed: 04/13/2001 0740 KLB Verified: 04/16/2001 10:40 LES)

Sample	Type	Result	Value	Unit	Percent
	Standard	1030	1000	mg/l	3.0
	Standard	1030	1000	mg/l	3.0
	Standard	1120	1000	mg/l	12.0
	Standard	1090	1000	mg/l	9.0
	Standard	1010	1000	mg/l	1.0
	Blank	<2		mg/l	

Perchlorate

(Analyzed: 05/01/2001 1215 GDG Verified: / /)

Sample	Type	Result	Value	Unit	Percent
	Standard	560	500	PPM	12.0
	Standard	534	500	PPM	6.8
	Standard	564	500	PPM	12.8
	Standard	568	500	PPM	13.6
489212	Duplicate	<0.0200	<0.0200	mg/L	0.0
489212	Spike		1.00	mg/L	119

Perchlorate

(Analyzed: 05/01/2001 1215 GDG Verified: 05/03/2001 12:11 WJP)

Sample	Type	Result	Value	Unit	Percent
	Standard	560	500	PPM	12.0
	Standard	534	500	PPM	6.8
	Standard	564	500	PPM	12.8
	Standard	568	500	PPM	13.6
489208	Duplicate	<0.0400	<0.0400	mg/kg	0.0
	Spike		0.500	mg/kg	106





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Hydrazine

(Analyzed: 04/09/2001 1400 MAM Verified: 04/10/2001 15:17 MAM)

Sample	Type	Result	Value	Unit	Percent
489218	Duplicate	ND	ND	mg/kg	0.0
489218	Spike		100	mg/kg	111

TCLP Lead (Reg. Limit 5.0)

(Analyzed: 04/11/2001 0800 WOB Verified: 04/11/2001 16:40 SAH)

Sample	Type	Result	Value	Unit	Percent
	Standard	0.101	0.100	ppm	1.0
	Standard	0.305	0.300	ppm	1.7
	Standard	0.301	0.300	ppm	0.3
	Standard	0.307	0.300	ppm	2.3
	Standard	0.304	0.300	ppm	1.3
	Standard	0.305	0.300	ppm	1.7
	Standard	0.311	0.300	ppm	3.7
	Standard	0.311	0.300	ppm	3.7
	Standard	0.312	0.300	ppm	4.0
	Standard	0.311	0.300	ppm	3.7
	Standard	0.101	0.100	ppm	1.0
	Standard	0.307	0.300	ppm	2.3
	Standard	0.307	0.300	ppm	2.3
	Standard	0.311	0.300	ppm	3.7
	Standard	0.301	0.300	ppm	0.3
	Standard	0.302	0.300	ppm	0.7
	Standard	0.298	0.300	ppm	-0.7
	Standard	0.303	0.300	ppm	1.0
	Standard	0.305	0.300	ppm	1.7
	LCS	0.102	0.100	ppm	2.0
	LCS	0.518	0.500	ppm	3.6
	LCS	0.521	0.500	ppm	4.2
	LCS	0.0987	0.100	ppm	-1.3
	LCS	0.502	0.500	ppm	0.4
	LCS	0.528	0.500	ppm	5.6
	Blank	<0.100		ppm	
	Blank	<0.0200		ppm	
	Blank	<0.0200		ppm	
	Blank	<0.100		ppm	
	Blank	<0.0200		ppm	
	Blank	<0.0200		ppm	
489227	Spike		0.100	ppm	105
489227	Spike		0.100	ppm	101
489290	Spike		0.500	ppm	97.2
489290	Spike		0.500	ppm	98.0

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TCLP Lead (Reg. Limit 5.0)

(Analyzed: 04/11/2001 0800 WOB Verified: 04/11/2001 16:40 SAH)

Sample	Type	Result	Value	Unit	Percent
489291	Spike		0.500	ppm	90.4
489362	Spike		0.500	ppm	94.6
489365	Spike		0.500	ppm	98.6
489365	Spike		0.500	ppm	98.6
489476	Spike		0.500	ppm	101
489585	Spike		0.500	ppm	97.4
489585	Spike		0.500	ppm	103
489625	Spike		0.500	ppm	93.6
489626	Spike		0.500	ppm	99.4
489627	Spike		0.500	ppm	98.0
489628	Spike		0.500	ppm	92.6
489629	Spike		0.500	ppm	94.2
	Spike		0.500	ppm	92.8
	Spike		0.500	ppm	96.4
489632	Spike		0.500	ppm	96.0
489633	Spike		0.500	ppm	105
489662	Spike		0.500	ppm	95.0
489693	Spike		0.500	ppm	102
489736	Spike		0.500	ppm	102

Ammonia Nitrogen

(Analyzed: 04/16/2001 0900 RSV Verified: 04/17/2001 13:06 CRS)

Sample	Type	Result	Value	Unit	Percent
	Standard	2.00	2.0	ppm	0.0
	Standard	3.01	3.0	ppm	0.3
	Standard	3.01	3.0	ppm	0.3
	Standard	3.01	3.0	ppm	0.3
	Standard	3.01	3.0	ppm	0.3
	Standard	3.01	3.0	ppm	0.3
	Standard	3.01	3.0	ppm	0.3
LCS	LCS	2.04	2.00	ppm	2.0
LCS	LCS	1.86	2.00	ppm	-7.0
LCS	LCS	2.13	2.00	ppm	6.5
LCS	LCS	2.16	2.00	ppm	8.0
LCS	LCS	2.13	2.00	ppm	6.5
LCS	LCS	2.14	2.00	ppm	7.0
	Blank	0.0341		ppm	
	Blank	0.0307		ppm	
	Blank	<0.020		ppm	
	Blank	0.0440		ppm	
	Blank	<0.020		ppm	

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Ammonia Nitrogen

(Analyzed: 04/16/2001 0900 RSV Verified: 04/17/2001 13:06 CRS)

Sample	Type	Result	Value	Unit	Percent
	Blank	0.0320		ppm	
	Blank	0.0326		ppm	
489219	Duplicate	31.0	33.7	mg/kg	5.6
489487	Duplicate	18.7	19.1	mg/L	1.4
489681	Duplicate	1.06	1.11	mg/L	3.1
489869	Duplicate	0.199	0.161	mg/L	13.6
489219	Spike		100	ppm	100
489487	Spike		2.00	ppm	100
489681	Spike		2.00	ppm	99
489869	Spike		2.00	ppm	100

Total Kjeldahl Nitrogen

(Analyzed: 04/05/2001 1500 RSV Verified: 04/05/2001 18:35 CRS)

Sample	Type	Result	Value	Unit	Percent
	Standard	1.09	1.0	ppm	9.0
	Standard	2.00	2.0	ppm	0.0
	Standard	2.00	2.0	ppm	0.0
	Standard	2.00	2.0	ppm	0.0
	Standard	2.00	2.0	ppm	0.0
LCS	LCS	0.897	1.00	ppm	-10.3
LCS	LCS	0.870	1.00	ppm	-13.0
LCS	LCS	1.07	1.00	ppm	7.0
	Blank	<0.050		ppm	
	Blank	<0.050		ppm	
	Blank	<0.050		ppm	
488438	Duplicate	3190	3310	mg/kg	2.5
488804	Duplicate	0.397	0.348	mg/L	8.6
489046	Duplicate	0.330	0.359	mg/L	5.7
488438	Spike		20	ppm	3400
488804	Spike		1.00	ppm	100
489046	Spike		1.00	ppm	110

Total Solids

(Analyzed: 04/05/2001 1635 EAM Verified: 04/09/2001 10:44 CRS)

Sample	Type	Result	Value	Unit	Percent
	Blank	0.0000		grams	
488518	Duplicate	79.5	80.0	%	0.4
488519	Duplicate	82.5	84.1	%	1.3
488520	Duplicate	84.3	85.0	%	0.6
	Blank	0.0000		grams	
489203	Duplicate	81.3	81.9	%	0.5
489204	Duplicate	84.0	83.5	%	0.4

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Sample	Total Solids Type	Result	Value	Unit	Percent
489205	Duplicate	69.9	69.6	%	0.3

(Analyzed: 04/06/2001 1548 EAM Verified: 04/09/2001 10:51 CRS)

RL is our Reporting Limit, or MAL (Minimum Analytical Level/Minimum Quantitation Level). The MAL takes into account the Instrument Detection Limit (IDL), Method Detection Limit (MDL), and Practical Quantitation Limit (PQL), and any dilutions and/or concentrations performed during sample preparation (EQL). Our analytical result must be above this MAL before we report a value in the "Results" column of our report. Otherwise, we report ND (Not Detected above MAL), because the result is "<" (less than) the number in the MAL column.

Unless otherwise noted, testing was performed at Ana-lab's corporate laboratory that holds the following Federal and State certificates: ISO Guide 25 (A2LA Certificate #637.01), EPA National Lead Laboratory Accreditation Program #637.01, Texas Department of Agriculture Soil Import Permit S-37592, State of Texas Narcotics Permit 1261, Texas Department of Health Drinking Water Laboratory Certificate TX219, EPA Lab Number TX00063, Oklahoma Department of Environmental Quality Laboratory Certificate 8125, Arkansas Department of Environmental Quality Certification, Louisiana Department of Environmental Quality Laboratory Certification (NELAC), Texas Department of Health Lead Firm Certificate 2110076, Entidad Mexicana de Acreditacion, A.C. (EMA) (pending), US Department of Energy Approved.

These analytical results relate to the sample tested. This report may NOT be reproduced EXCEPT in FULL without written approval of Ana-Lab Corp.

I certify the above results were obtained using the methods specified.

C. H. Whiteside, Ph. D., President



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