

#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method: Gasoline Range Organics

SW8015B

WorkOrder:

05081228

Lab Batch ID:

R149400

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.13	0.973	86.2	1.13	0.907	80.3	7.04	50	26	147

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil

NM Satek Battery#3/041836

Analysis: Method:

RunID:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

05081228

Lab Batch ID:

R149441

Method Blank

HP\_O\_050830A-2922088

Units:

ug/Kg

Lab Sample ID 05081228-21A

Samples in Analytical Batch:

Client Sample ID

Analysis Date: Preparation Date:

08/30/2005 19:17 08/30/2005 19:17

JWW Analyst: Prep By:

Method SW5030B

05081228-22A

SB7-20-21'

05081228-24A

SB8-1-2'

05081228-27A

SB8-20-21' SB9-20-21'

05081228-28A 05081228-29A 05081228-30A SB10-1-2' SB10-15-16' SB10-20-21'

05081228-31A

SB11-1-2'

Rep Limit Analyte Result ND 1.0 Benzene ND 1.0 Ethylbenzene ND 1.0 Toluene ND 1.0 m,p-Xylene ND 1.0 o-Xylene Xylenes, Total ND 1.0 77-126 Surr: 1,4-Difluorobenzene 96.8 60-160 Surr: 4-Bromofluorobenzene 104.3

#### Laboratory Control Sample (LCS)

RunID:

HP\_O\_050830A-2922087

Units:

ug/Kg JWW

Analysis Date: Preparation Date: 08/30/2005 17:35 08/30/2005 17:35 Analyst: Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.6	103	70	130
Ethylbenzene	20.0	20.8	104	70	130
Toluene	20.0	20.7	104	70	130
m,p-Xylene	40.0	42.2	105	70	130
o-Xylene	20.0	20.9	105	70	130
Xylenes,Total	60.0	63.1	105	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081293-01

RunID:

HP\_O\_050830A-2922096

Units:

ug/Kg Analyst: JWW

Analysis Date: Preparation Date: 08/31/2005 3:38 08/30/2005 14:58

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	20.3	102	20	19.0	95.2	6.55	32	36	139
Ethylbenzene	ND	20	19.9	99.6	20	19.4	96.8	2.87	32	25	138
Toluene	ND	20	19.9	99.6	20	19.2	95.9	3.75	34	31	138

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.



#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

05081228

Lab Batch ID:

R149441

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081293-01

RunID:

03001233-01

HP\_O\_050830A-2922096 08/31/2005 3:38 Units: Analyst: ug/Kg JWW

Analysis Date: Preparation Date:

08/30/2005 14:58

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	39.7	99.2	40	38.7	96.7	2.52	34	25	139
o-Xylene	ND	20	19.7	98.3	20	19.3	96.7	1.68	32	19	144
Xylenes,Total	ND	60	59.4	98.9	60	58.0	96.7	2.24	34	19	144

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

#### NM Satek Battery#3/041836

Analysis: Method:

RunID:

**Gasoline Range Organics** 

SW8015B

WorkOrder:

05081228

Lab Batch ID:

R149442

M	otho	d B	lank

HP\_O\_050830B-2922133

Units:

mg/kg JWW

Lab Sample ID 05081228-21A

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08/30/2005 18:45 08/30/2005 18:45 Analyst:

Method

05081228-22A

SB7-20-21'

Preparation Date:

Prep By:

05081228-24A 05081228-27A

05081228-28A

SB8-1-2' SB8-20-21' SB9-20-21'

Rep Limit Analyte Result Gasoline Range Organics ND 0.10 63-142 99.7 Surr: 1,4-Difluorobenzene 105.0 50-159 Surr: 4-Bromofluorobenzene

05081228-29A 05081228-30A SB10-1-2' SB10-15-16' SB10-20-21'

SB11-1-2' 05081228-31A

#### Laboratory Control Sample (LCS)

RunID:

HP O 050830B-2922132

Units:

mg/kg JWW

Analysis Date: Preparation Date: 08/30/2005 18:08 08/30/2005 18:08 Analyst: Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.870	87.0	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081293-01

RunID:

HP\_O\_050830B-2922142

Units:

mg/kg

Analysis Date:

08/31/2005 4:49

Analyst:

JWW

Preparation Date:

08/30/2005 15:02

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.880	88.0	1	0.875	87.5	0.513	50	26	147

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution \* - Recovery Outside Advisable QC Limits

J - Estimated value between MDL and PQL



#### ExxonMobil

NM Satek Battery#3/041836

Analysis:

**Purgeable Aromatics** 

Method:

RunID:

SW8021B

WorkOrder:

05081228

Lab Batch ID:

R149483

Method Blank

HP\_J\_050901A-2922965 Units: ug/L

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date: Preparation Date: 09/01/2005 4:50 09/01/2005 4:50

Analyst: Prep By:

DY

Method SW5030B

05081228-35A 05081228-36A

Trip Blank#1

Trip Blank#2

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes.Total	ND	1.0
Surr: 1,4-Difluorobenzene	101.1	39-163
Surr: 4-Bromofluorobenzene	99.4	57-157

#### Laboratory Control Sample (LCS)

RunID:

HP\_J\_050901A-2922964

Units: ug/L

Analysis Date: Preparation Date:

09/01/2005 4:21 09/01/2005 4:21 Analyst: DY

Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	19.5	97.7	70	130
Ethylbenzene	20.0	19.7	98.3	70	130
Toluene	20.0	20.2	101	70	130
m,p-Xylene	40.0	39.3	98.3	70	130
o-Xylene	20.0	20.0	100	70	130
Xylenes,Total	60.0	59.3	98.8	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081108-01

RunID:

HP\_J\_050901A-2922969

Units:

ug/L

Analysis Date:

Analyst: DY 09/01/2005 6:48

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	19.2	95.2	20	19.6	97.1	2.04	26	40	165
Ethylbenzene	ND	20	18.4	91.9	20	18.8	94.0	2.24	34	51	156
Toluene	ND	20	18.9	94.5	20	19.1	95.6	1.08	25	58	153

Qualifiers:

ND/U - Not Detected at the Reporting Limit

J - Estimated value between MDL and PQL

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method: **Purgeable Aromatics** 

SW8021B

WorkOrder:

05081228

Lab Batch ID:

R149483

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081108-01

RunID:

HP\_J\_050901A-2922969

Units:

ug/L

Analysis Date:

09/01/2005 6:48

Analyst:

DY

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	36.7	91.5	40	37.5	93.3	1.96	27	51	155
o-Xylene	ND	20	18.5	92.6	20	18.9	94.4	1.86	25	58	151
Xylenes,Total	ND	60	55.2	91.9	60	56.4	93.7	1.92	27	51	155

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

J - Estimated value between MDL and PQL

MI - Matrix Interference

D - Recovery Unreportable due to Dilution

\* - Recovery Outside Advisable QC Limits



# ExxonMobil

NM Satek Battery#3/041836

Analysis: Method:

RunID:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

Samples in Analytical Batch:

05081228

Lab Batch ID:

R149517

Method Blank

HP\_O\_050831A-2923567 Units:

ug/Kg

Lab Sample ID

Client Sample ID

Analysis Date: Preparation Date: 08/31/2005 14:06 08/31/2005 14:06 Analyst: Prep By: JWW Method 05081228-32A 05081228-33A

SB11-15-16' SB11-20-21'

05081228-39A

Duplicate

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	96.4	77-126
Surr: 4-Bromofluorobenzene	104.0	60-160

#### Laboratory Control Sample (LCS)

RunID:

HP\_O\_050831A-2923566

Units:

Analysis Date: 08/31/2005 12:56 Analyst:

ug/Kg **JWW** 

Preparation Date:

08/31/2005 12:56

Prep By: Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	21.9	109	70	130
Ethylbenzene	20.0	22.4	112	70	130
Toluene	20.0	22.2	111	70	130
m,p-Xylene	40.0	45.2	113	70	130
o-Xylene	20.0	22.5	112	70	130
Xylenes,Total	60.0	67.7	113	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081223-01

RunID:

HP\_O\_050831A-2923582

Units: ug/kg-dry

Analysis Date:

09/01/2005 4:10

Analyst:

JWW

Preparation Date:

08/26/2005 19:44

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	24.3	20.2	83.0	24.3	22.9	94.3	12.7	32	36	139
Ethylbenzene	4.86	24.3	22.8	73.8	24.3	25.4	84.8	11.1	32	25	138
Toluene	ND	24.3	19.4	80.1	24.3	22.5	92.7	14.7	34	31	138

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL \* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported. 05081228 Page 57 9/8/2005 5:00:47 PM



#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

05081228

Lab Batch ID:

R149517

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081223-01

RunID: Analysis Date: HP\_O\_050831A-2923582

Units:

ug/kg-dry Analyst:

JWW

Preparation Date:

09/01/2005 4:10 08/26/2005 19:44

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	5.51	48.5	41.1	73.2	48.5	48.5	88.6	16.6	34	25	139
o-Xylene	ND	24.3	17.2	67.3	24.3	21.6	85.4	22.7	32	19	144
Xylenes,Total	6.37	72.8	58.3	71.3	72.8	70.1	87.5	18.5	34	19	144

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil

NM Satek Battery#3/041836

Analysis:

RunID:

Gasoline Range Organics

SW8015B Method:

WorkOrder:

05081228

Lab Batch ID:

R149519

Method Blank

HP\_O\_050831B-2923596

Units:

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08/31/2005 14:06

Analyst:

JWW

05081228-32A

SB11-15-16'

Preparation Date:

08/31/2005 14:06

Prep By:

Method

05081228-33A

mg/kg

JWW

SB11-20-21'

05081228-39A

**Duplicate** 

Analyte	Result	Rep Limit
Gasoline Range Organics	ND	0.10
Surr: 1,4-Difluorobenzene	99.3	63-142
Surr: 4-Bromofluorobenzene	104.0	50-159

#### Laboratory Control Sample (LCS)

RunID: Analysis Date:

HP\_O\_050831B-2923595 Units: 08/31/2005 13:30 Analyst:

Preparation Date:

08/31/2005 13:30

Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.952	95.2	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081228-39

RunID:

HP\_O\_050831B-2923600

Units:

mg/kg-dry

Analysis Date:

08/31/2005 19:37

Analyst: JWW

Preparation Date:

08/26/2005 21:05

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1.04	0.929	89.4	1.04	0.877	84.5	5.74	50	26	14

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and rounding, the reported RPD may differ from the displayed RPD values but is correct as reported. 05081228 Page 59 9/8/2005 5:00:47 PM



#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method:

PERCENT MOISTURE

D2216

WorkOrder:

05081228

Lab Batch ID:

R149144A

#### Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
05081228-01B	SB1-0-2'
05081228-02B	SB1-14-15'
05081228-03B	SB1-19-20'
05081228-04B	SB2-1-2'
05081228-05B	SB2-15-16'

#### Sample Duplicate

Original Sample:

05081226-04

WET\_050827D-2917367

Units:

wt%

Analysis Date:

RunID:

08/27/2005 15:02

Analyst: E\_S

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	15.4	15.27	0.795	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

\* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and

05081228 Page 60



#### **ExxonMobil**

NM Satek Battery#3/041836

Analysis: Method: PERCENT MOISTURE

D221

D2216

WorkOrder:

05081228

Lab Batch ID:

R149144B

#### Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
05081228-06B	SB2-20-21'
05081228-07B	SB3-1-2'
05081228-08B	SB3-15-16'
05081228-10B	SB4-1-2'
05081228-11B	SB4-15-16'
05081228-12B	SB4-20-21'
05081228-13B	SB5-1-2'
05081228-14B	SB5-15-16'
05081228-15B	SB5-20-21'

#### Sample Duplicate

Original Sample:

05081226-12

RunID:

WET\_050827D-2917361

Units:

wt%

Analysis Date:

08/27/2005 15:02

Analyst: E\_S

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	29.4	29.36	0.221	20

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

<sup>\* -</sup> Recovery Outside Advisable QC Limits



#### ExxonMobil

NM Satek Battery#3/041836

Analysis:

PERCENT MOISTURE

Method:

D2216

WorkOrder:

05081228

Lab Batch ID:

R149144C

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

05081228-09B

SB3-20-21'

05081228-16B

SB6-1-2'

05081228-17B

SB6-15-16'

05081228-18B

SB6-20-21'

#### Sample Duplicate

Original Sample:

05081228-09

WET\_050827D-2917351

Units:

wt%

Analysis Date:

RunID:

08/27/2005 15:02

Analyst: E\_S

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	5.87	5.978	1.83	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

NM Satek Battery#3/041836

Analysis: Method: PERCENT MOISTURE

D2216

Mark

WorkOrder:

05081228

Lab Batch ID:

R149144D

#### Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
05081228-19B	SB7-1-2'
05081228-20B	SB7-15-16'
05081228-21B	SB7-20-21'
05081228-22B	SB8-1-2'
05081228-23B	SB8-15-16'
05081228-24B	SB8-20-21'
05081228-25B	SB9-1-2'
05081228-26B	SB9-15-16'
05081228-27B	SB9-20-21'
05081228-28B	SB10-1-2'

#### Sample Duplicate

Original Sample:

05081228-19

RunID:

WET\_050827D-2917340

Units:

wt%

Analysis Date:

08/27/2005 15:02

Analyst:

E\_S

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	11.5	11.37	1.26	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

NM Satek Battery#3/041836

Analysis:

PERCENT MOISTURE

Method:

D2216

WorkOrder:

05081228

Lab Batch ID:

R149144E

#### Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
05081228-29B	SB10-15-16'
05081228-30B	SB10-20-21'
05081228-31B	SB11-1-2'
05081228-32B	SB11-15-16'
05081228-33B	SB11-20-21'
05081228-34B	Background
05081228-39B	Duplicate

#### Sample Duplicate

Original Sample:

05081228-29

RunID:

WET\_050827D-2917329

Units:

wt%

Analysis Date:

08/27/2005 15:02

Analyst: E\_S

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Percent Moisture	5.96	5.981	0.278	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### **ExxonMobil**

#### NM Satek Battery#3/041836

Analysis:

RunID:

Chloride, Total

08/31/2005 16:09

Method:

Analysis Date:

E325.2

Chloride

WorkOrder:

05081228

Lab Batch ID:

R149470

Method Blank

Analyst:

KONELAB\_050831D-29226 Units:

Analyte

mg/kg T\_H

Result

ND

Samples in Analytical Batch: Lab Sample ID Client Sample ID

05081228-01B

SB1-0-2'

05081228-02B

SB1-14-15'

05081228-03B

SB1-19-20'

05081228-04B

SB2-1-2'

05081228-06B

SB2-20-21'

05081228-07B

SB3-1-2'

05081228-08B 05081228-09B SB3-15-16'

05081228-10B

SB3-20-21' SB4-1-2'

05081228-11B

SB4-15-16'

#### **Laboratory Control Sample (LCS)**

RunID:

KONELAB\_050831D-29226 Units:

Rep Limit

mg/kg

Analysis Date:

08/31/2005 16:09

Analyst:

T\_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit	
Chloride	500.0	522.8	104.6	80	120	

# Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081228-01

RunID:

KONELAB\_050831D-29226 Units:

mg/kg-dry

Analysis Date:

08/31/2005 17:05

Analyst:  $T_H$ 

	Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride		ND	601.7	576.6	94.60	601.7	590.6	96.92	2.400	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

NM Satek Battery#3/041836

Analysis:

Chloride, Total

Method:

E325.2

Samples in Analytical Batch:

WorkOrder:

05081228

Lab Batch ID:

R149470A

Method Blank

RunID:

KONELAB\_050831D-29226 Units:

Analyte

mg/kg

Result

ND

Lab Sample ID 05081228-05B

Client Sample ID

Analysis Date:

Chloride

08/31/2005 16:09

T\_H Analyst:

SB2-15-16'

05081228-12B

SB4-20-21'

05081228-13B

SB5-1-2'

05081228-14B

SB5-15-16'

05081228-15B

SB5-20-21'

05081228-16B

SB6-1-2'

05081228-17B

SB6-15-16'

05081228-18B

SB6-20-21'

05081228-19B

SB7-1-2'

05081228-20B

SB7-15-16'

120

#### Laboratory Control Sample (LCS)

Spike

Added

500.0

RunID:

Chloride

KONELAB 050831D-29226 Units:

Rep Limit

mg/kg

Analysis Date:

08/31/2005 16:09

Analyst: T\_H

Result	Percent	Lower	Upper
	Recovery	Limit	Limit

104.6

80

# Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

Analyte

RunID:

05081228-05

KONELAB\_050831D-29226 Units:

mg/kg-dry

Analysis Date:

08/31/2005 17:05

Analyst: T\_H

522.8

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	25.64	508.9	534.6	100.0	508.9	531.8	99.47	0.5115	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

#### NM Satek Battery#3/041836

Analysis:

RunID:

Chloride, Total

Method:

E325.2

WorkOrder:

05081228

Lab Batch ID:

R149470B

Method Blank

Chloride

KONELAB\_050831D-29226 Units:

Analyte

mg/kg

Result

ND

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08/31/2005 17:56

Analyst: T\_H

05081228-21B

SB7-20-21'

05081228-22B

SB8-1-2'

05081228-23B

SB8-15-16'

05081228-24B

SB8-20-21'

05081228-25B

SB9-1-2'

05081228-26B 05081228-27B SB9-15-16'

05081228-28B

SB9-20-21' SB10-1-2'

05081228-29B

SB10-15-16'

05081228-30B

SB10-20-21'

#### Laboratory Control Sample (LCS)

RunID:

KONELAB\_050831D-29226 Units:

Rep Limit

mg/kg

Analysis Date:

08/31/2005 17:56

Analyst:

T\_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	500.0	536.0	107.2	80	120

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081228-25

RunID:

KONELAB\_050831D-29227 Units:

mg/kg-dry

Analysis Date:

08/31/2005 18:35

Analyst: T\_H

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	621.9	562.9	88.91	621.9	573.7	90.64	1.892	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil

#### NM Satek Battery#3/041836

Analysis:

Chloride, Total

Method:

RunID:

E325.2

WorkOrder:

05081228

Lab Batch ID:

R149470C

Method Blank

KONELAB\_050831D-29226 Units:

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

08/31/2005 17:56

Analyst: T\_H

05081228-31B

SB11-1-2'

05081228-32B

SB11-15-16'

05081228-33B

SB11-20-21'

05081228-34B

Background

Chloride

Analyte Result Rep Limit ND 10

05081228-39B

Duplicate

#### Laboratory Control Sample (LCS)

RunID:

KONELAB\_050831D-29226 Units:

mg/kg

Analysis Date:

08/31/2005 17:56

Analyst: T\_H

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Chloride	500.0	536.0	107.2	80	120

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081228-34

RunID:

KONELAB\_050831D-29227 Units:

mg/kg-dry

Analysis Date:

08/31/2005 18:35

Analyst:

T\_H

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	ND	631.3	657.6	102.8	631.3	656.3	102.6	0.1920	20	76	131

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits

# Sample Receipt Checklist And Chain of Custody



# Sample Receipt Checklist

Wo	rkorder:	05081228			Received B	y:	NB	
Dat	e and Time Received:	8/26/2005 9:30:00 AM			Carrier nam	ie:	Fedex-Standar	d Overnight
Ter	mperature:	3.0/3.5°C			Chilled by:		Water Ice	
1.	Shipping container/co	oler in good condition?	Yes	$\checkmark$	No 🗆		Not Present	
2.	Custody seals intact of	on shippping container/cooler?	Yes		No 🗌		Not Present	$\checkmark$
3.	Custody seals intact of	on sample bottles?	Yes		No 🗌		Not Present	V
4.	Chain of custody pres	ent?	Yes	$\checkmark$	No 🗌			
5.	Chain of custody sign	ed when relinquished and received?	Yes	$\checkmark$	No 🗆			
6.	Chain of custody agre	es with sample labels?	Yes	$\checkmark$	No 🗆			
7.	Samples in proper cor	ntainer/bottle?	Yes	$\checkmark$	No 🗌			
8.	Sample containers int	act?	Yes	$\checkmark$	No 🗆			
9.	Sufficient sample volu	ime for indicated test?	Yes	$\checkmark$	No 🗆			
10.	All samples received v	within holding time?	Yes	$\checkmark$	No 🗆			
11.	Container/Temp Blank	temperature in compliance?	Yes	$\checkmark$	No 🗌			
12.	Water - VOA vials have	e zero headspace?	Yes	<b>✓</b>	№ □	VOA Vi	als Not Present	
13.	Water - Preservation of	checked upon receipt (except VOA*)?	Yes	<b>✓</b>	No 🗌		Not Applicable	
	*VOA Preservation Ch	ecked After Sample Analysis						
	SPL Representati	ve:	Cont	act Date & T	ime:			
	Client Name Contacte	ed:						
	Non Conformance Issues:							
	Client Instructions:							

Belinanished:	Relinquished By Sampter: M. P. Date	JOHN WORNONDER INC.		MTBE 8021   8260	C CONTAINER SIZE	Phone: 28   6   6   6   6   6   6   6   6   6	Mobil Oil Corp C Cover (Mobil Oil Corp C C C C C C C C C C C C C C C C C C C
Relinquished: // Date	Relinquished By Sampler: MR Time	Phone: 28 654.6460    Phone: 28 656	Phone: 28  654 7460	0 0	252	iished By Sampter: MR3.	
Relinquished By Sampler: MAS: Time		Phone: 28   654 6018	Phone: 28   6.74 & 74 & 74 & 74 & 74 & 74 & 74 & 74 &	Way Bill #:	Specify)	SPECIAL REPOR	
FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify)  TRRP DATA "C"   PDF	FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify)  Vay Bill #:	ANALYSIS REQUEST:  Contact: X'm Building Buildin	Phone: 28   6 24 24 60  Consultant Project #: 04 18 36  Consul	EXXONMOBIL CC			*
* ENHANCED "B"  FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify) Way Bill #:  TRRP DATA "C" PDF □ □ EDD  Relinquished By Sampler: MB Time Re	* ENHANCED "B" FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify) Way Bill #:	ANALYSIS REQUEST:  Contact: \$\alpha\alpha\rightarrow{\	Phone: 281624 8460  Contact: 5'n Building State   D#(TN Only):  Co			ARD "A"	*  
* STANDARD "A"  * ENHANCED "B"  FULL DATA "C"  TRRP DATA "C"  Relinquished By Sampler:   * ENHANCED "B"  * PDF □ □ EDD  * Time   Re	1B.         *         STANDARD "A"           US.         *         ENHANCED "B"           FULL DATA "C"         SPECIAL REPORTING REQUIREMENTS (Specify)         Way Bill #:           3US.         TRRP DATA "C"         PDF □         □ EDD	AMALYSIS REQUEST:  Confact: 2/n But See 1  Confact: 2/n But See 2  Confact: 2/n But See 3  Confact: 2/	Phone: 281624 8460  Contact: 7'n Building Phone: 281624 8600  Contact: 7	REMARKS:		SPECIAL DETECTION LIMITS	
STANDARD "A"   SPECIAL DETECTION LIMITS (Specify)   REMARKS:	QA/QC Level         SPECIAL DETECTION LIMITS (Specify)         REMARKS:           STANDARD "A"         ENHANCED "B"         FULL DATA "C"           FULL DATA "C"         SPECIAL REPORTING REQUIREMENTS (Specify)         Way Bill #:	ANALYSIS REQUEST:  Contact: 2816246060  Contact: 27/m Buck  Contac	Phone: 281654 8460		<b>トーケーケー</b>	<b>→</b>	
	V         V	ANALYSIS REQUEST:  Contact: 2816.74 8460  Contact: 37.74 8.1660  Contact: 37.74 8.1660  Contact: 37.74 8.1660  Consultant Project #: 041836  Consultant Proj	The Countrine Bill of the Countries Bill of			(600)	-16
	V (620)         V </td <td>ANALYSIS REQUEST:  Oomlact: X/m &amp; L/C &amp; L/</td> <td>Phone: 2816.74 8460  Comact: 2/m 6/26  Comact: 2</td> <td></td> <td></td> <td>333</td> <td></td>	ANALYSIS REQUEST:  Oomlact: X/m & L/C & L/	Phone: 2816.74 8460  Comact: 2/m 6/26  Comact: 2			333	
		AMALYSIS REQUEST:  Omitact: 216,4460  Contact: 51m Base   2816,460  Consultant Project #: 041836  Consultant Project #: 041836	Phone: 281654 8460  Confact: X'm & Lock  Confact: X'm & Lock  Consultant Project #: 041836  Cons			200	
		AMALYSIS HEQUEST:  Oontact: 316,460  Oontact: 317	Phone: 28   654 60   80   90   90   90   90   90   90   9			10000 10000	
		ANALYSIS REQUEST:  Contact: 28/65460  Contact: 31/m Building State   D#(TN Only):  Consultant Project #: 04/836  Consultant Pr	Phone: 28165460  Oontact: 3'm 8.2660186  Comact: 3'm 8.2660186  Tax 43.26800186  Consultant Project #: 041836  Consultant Proj		‡ =	10,00	
1530	1530	ANALYSIS REQUEST:  Contact: 31 m 8.12 68 60 18 60  Consultant Project #: 041836  Consultant Proj	Phone: 28165460  Comfact: 27 m 8vice  Comfact: 27 m			250	
1520	1520	ANALYSIS REQUEST:  Contact: X'm & & & & & & & & & & & & & & & & & & &	Phone: 281654600 Recompositive Contact: X'm By Recompositive Contact: X'm By Recured Contact: X'm By R			1505/	
1526	15.20	ANALYSIS REQUEST:  Contact: 2816548460  Contact: 3'm & Like  Contact: 3'	Phone: 28165460  Contact: X'm Buize  Contact:				
1526   1526	1/2   1/2	ANALYSIS REQUEST:  Contact: \$\textit{ \textit{ Chapter 28} \int \textit{ \textit{ APPOPT AT E BOX}}}  Contact: \$\textit{ \textit{ \textit{ Chapter 2} \int  \textit{ Cha	Phone: 28165460  Contact: 2/m Builder Size  Phone: 281654600  Contact: 3/m Builder Size  Consultant Project #: 041836  Consultant Project #: 041836  Contact: 3/m Builder Size  Consultant Project #: 041836  Contact: 3/m Builder Size  Cont			1440	2.6
440   150	440	ANALYSIS REQUEST:  Contact: 28   654 60  Contact: 3 / m	Phone: 2816548460  Contact: 2/m Building & Ref. Co.   Contact # O41836  Consultant Project # O41836  Co		7 4 X	× ×	
1		ANALYSIS REQUEST:  Contact: 28/65460  Contact: 3/m Buice  Contact: 5/m Buice  Contact: 6010  Contact:	Phone: 28   654 8460  Contact: 5/m Building Section   1992	MTRE  OXYG  TCLP I  TCLP I	0. ОИ СОИТ ТРН/С	TIME COMP. GRAB MATRIX OTHER H-O   SOIL AIR	
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Cooler Temporary   Cooler Temp	Compared	ANALYSIS REQUEST:  Phone: 2816548460  Contact: 51m Build  Consultant Project #: 641836  Consultant Project	Phone: 2816548460  Contact: 2/m 62/c  Contact: 2/m 62/c  Contact: 2/m 62/c  Contact: 2/m 62/c  Tage Property: Tage Property: Contact: 2/m 62/c  Tage Property: Tage Property: Contact: 2/m 62/c  Tage Property: Tage Property: Contact: 2/m 62/c  Tage Property: Contact: 2/m 62/c  Tage Property: Contact: 2/m 62/c  Tage Property: Cape Property: Contact: 2/m 62/c  Tage Property: Cape Pr	1SC 13., 13., 13., 13., 13., 13., 14., 15., 16., 17., 18., 17., 18., 18., 18.,	80. EB	0231 Mobil Oil Pipeline Co.	Mobil Pipeline Co. □
DATE   TIME   COMP.   GRAB   MATRIX   OTHER PRESENVATVE   COUNTAINER   SOSTI   Mobil Oil Pipeline Co.	Pipeline Co.	ANALYSIS REQUEST:  Contact: 2/n 8/22  Contact: 5/n 8/22  Contact: 5/n 8/22  CHECK APPROPRIATE BOX)  CONTact: 5/n 8/22  CHECK APPROPRIATE BOX)  CHECK APPROPRIATE BOX  CHECK APPROPRIATE	Phone: 281654 8460  Contact: 31/m Buice  Tage Log To Leck APPROPRIATE BOX)  Contact: 31/m Buice  Contact: 31/m Bui	□ (1 E) (1	SIS	14 ExxonMobil Marketing & Ref. Co. □	Mobil Oil Corp
0944 ExconMobil Marketing & Ref. Co.   001476   1018   1	DATE   TIME   COMP.   GRAB   MATRIX   COULT   MITS   Specify   COULT   CONTRACT   COULT   COOLT   COULT   CO	ANALYSIS REQUEST:  Contact: 2/n 8vice  Contact: 5/n 8vice  CHECK APPROPRIATE BOX)  Contact: 5/n 8vice  CHECK APPROPRIATE BOX)  CONTact: 5/n 8vice  CHECK APPROPRIATE BOX)  CHECK APPROPRIATE BOX APPROPRIATE B	Phone: 28 654 8460  Contact: 3/m Build  Consultant Project #: 041836  Coliv. Build Read (State) wm Build  Consultant Project #: 041836  Coliv. Build Read (State) wm Read (Sta	023	32		9
DATE TIME   COMP.   GRAB   MATRIX   OTHER   PRESERVATIVE   COMP.   GRAB	DATE   TIME   COMP   GRAB   MATRIX   OTHER   PRESERVATIVE   COUT   CONTRINE   CONTRACT   CONTRINE	ANALYSIS REQUEST:  Contact: 28/65460  Contact: 5/m 8/ce  Contact: 5/m	Phone: 28 654 8460  Contact: 3/m 8/ize  Contact: 5/m 8/ize  Consultant Project #: 04/836  Consultant Project #: 04/836	856 682 683 683 684 686 686	80	(City) Buckeye (State) NM	将
CORN   BACK Rece   Country   Count	# 3	ANALYSIS REQUEST:  Contact: 28/654600  Contact: 5/m 8/22  Contact: 5/m	Phone: 28 654 8460  Contact: 31 M Build  Contact: 32 M Build  Contact: 31 M Build  Contact: 32 M Build  Contact: 32 M Build  Contact: 31 M Build  Contact: 32 M Build  Contact: 32 M Build  Contact: 31 M Build  Contact: 32 M Build  Contact: 31 M Build  Contact: 32 M Build  Contact: 3	) 0 I 0 I		Collegia Flores - C	,)/:
COMP   Secretary   Companies	California   Cal	Phone: 2816546460  Contact: 2/m Buice  Check Appropriate Boxy  Contact: 3/m Buice  703  Fax: 4326860186  A 803017   B 10   ETALS TCLP   B 10	Phone: 28  654 8460   Contact: 31/m 8vice	C		0	:(\)
CONSULTANT Project #: 041836  CONSULTANT Project	Consultant Project #: 041836  Cash	Phone: 281 654 8460  Contact: 5'm 8vice  Contact: 5'm 8vice  2 Fax: 432 686 0186  A Fax: 432 686 0186	SPL WORKORDER NO. ANALYSIS REQUEST:  Phone: 281654660  Contact: 2/m 6/2/e  Contact: 3/m 6/2/e  Fax: 4326860186  ANALYSIS REQUEST:  CHECK APPROPRIATE BOX)  CONTACT: 7/m 6/2/e  Provided to the contact of	6 E O	IO S	Facility/State ID#(TN Only):	
# 3 (CR) B Lock Consultant Project #: 041836  Consultant Project P	Pacifity/State   D#(TN Only):	Phone: 2816546460  Contact: 5'm Buice  Contact: 5'm Buice  J Fax: 4326860186	SPL WORKORDER NO. 2816548460  Phone: 2816548460  Contact: 5'm Buice (CHECK APPROPRIATE BOX)  Contact: 5'm Buice (CHECK APPROPRIATE BOX)  ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)  A Fax: 4326860186	□ 0 \JN	<b>'</b> OŁ		
Pacifity/State   D#(TN Only):	Facility/State   D#(TN Only);   Consultant Project #: 041836	Phone: 2816546460  Contact: 5'm Buice  Contact: 5'm Buice  J Fax: 4326860186	SPL WORKORDER NO. Caye 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	ОН ДО	*	70	TX 7
Table   Date	Facility/State   D#   Trough   DATE   TIME   Consultant Project #:   O41836   DATE   DATE   TIME   Consultant Project #:   O41836   DATE   DATE   TIME   Consultant Project #:   O41836   DATE   DATE   TIME   DATE   DA	Clover Phone: 2816548460 (CHECK APPROPRIATE BOX)  CONTact: 31 M Suice	Clouck Phone: 28/6548460 ANALYSIS REQUEST:  Contact: 5/m Bice	EBB I		J Fax: 4326	135 S. 600p 250
Tool	10   10   10   10   10   10   10   10	Clover Phone: 28/6548460 (CHECK APPROPRIATE BOX)	Clover Phone: 2816548460 ANALYSIS REQUEST: Contact: 51/2 Build Check Appropriate Box)	-		1	1
TOOM   The policy   Took   T	Too3	Cloved Phone: 28/6548460	Clover Phone: 2816548460 ANALYSIS REQUEST:			- 1	ne: CRA-
Consultant Project #:   Child   Chil	Congett   Cong	COVER PHONE: 281654 R460	Clover phone 2816548460 ANALYSIS REQUEST:	(CHECK APPROPRIATE			
Contact: 3/m Buildingstate D#(TN Only):    203	Consultant Project #: 041836  Consul		SPL WORKORDER NO.	ANALYSIS REQUES		Phone: 2816	J
			A.		MTBE 8021   8260	SEMI-VOL 8250   6250	Phone: 28   6.54 600    Todad: 3.1 m

Triplicate: Original \* White Lab's Copy \* Green Client Copy \* Yellow

OTHER 3723 76/10/19 οť □ HOT/XOT EXXONMOBIL CONTRACT NO. C57160 Page 2 08.028 ☐ 1.814 AI\HH97 Cooler Temp: PURGEABLE HYDROCARBON 8021 [] 601 [] D THIO9HSAJE D YTIVISORROD D YTIVITAER PB, DISSOLVED [] PB, TOTAL [] (200.7/6010 (CHECK APPROPRIATE BOX) Вв, тс∟Р □ C 0109 7.00S JATOT, 89 ANALYSIS REQUEST: METALS, TOTAL RCRA [] METALS TCLP [] TCLP FULL [] YOA [] SEMI-YOA [] PEST [] HERB [] Received By: Received By: Received By: PCB/PEST 8081/8082 ☐ PCB ONLY ☐ □ 07S8 □ 01E8 □ 0018 HA9\AN9 SEMI-VOL. 625 E 8270 🗆 624 □ 8560 🗆 NOF" Way Bill #: 000 Time S Jime Time GRAV. 413.2 🗆 1664 🗆 O&G IR 413.1 [ REMARKS SPL WORKORDER NO. OXYGENATES (7) 8260 [ 8560 □ 1208 **BBTM** © 209 8021)X **X3T8** S/25/8 MORG Bros ГРН/GC 8015 GRO™ Date SONTAINER SIZE NO. OF CONTAINERS SPECIAL REPORTING REQUIREMENTS (Specify) OTHER PRESERVATIVE (State) NM

© SDT

0944 ExxonMobil Marketing & Ref. Co. 

0231 Mobil Oil Pipeline Co. SPECIAL DETECTION LIMITS (Specify) 4 CO EDD Consultant Project #: 046836 Phone: 28/6548460 Contact: J. M. Buile Fax: 4326860186 H<sub>2</sub>O SOIL AIR MATRIX Facility/State ID#(TN Only): PDF TIME COMP. GRAB Relinquished By Sample 2970 QA/QC Level FULL DATA "C" ENHANCED "B" STANDARD "A" TRRP DATA "C" 1640 735 1655 Soll 05.70 851 Relinquished: Relinquished Address: 2135 5, Loop 250 () DATE 72 ExxonMobil Engineer: Chr.5 Clove Location: NM STATE KA BATTE MI DLAND 0160 ExxonMobil Oil Corp □ 0614 ExxonMobil Pipeline Co. CRA TAT (\* - Contact us Prior to Sending EXXONNOBIL CUSTODY RECORD 10 BUS. 30 BUS. 5 BUS. 48 HR. Consultant Co. Name: SAMPLE I.D. Samples) AFE#(Terminal Only): Purchase Order No.: 5-16 20-21 15-16 15-16 91-51 20-2 14-07 -1-21 HAS#: 15 BUS. 24 HR. 72 HR. 8 BUS. BB

Triplicate: Original \* White Lab's Copy \* Green Client Copy \* Yellow

05081228

					CONTRACTOR DESCRIPTION	-		SPL W	ORK	ORDE	SPL WORKORDER NO.		SERVICE SECURITION	(	C	,	)		Page	3	of	4		
Exposition of St. St.	Lock	Phone:	78	13	6548460	09.		-	<u></u>				ANA	ANALYSIS REQUEST:	SRE	COLES	12.					. 0	OTHER	
	To the state of th	Contact:	1	N Si	Buce		l 1	-				ပ်	를	(CHECK APPROPRIATE BOX)	89 P	IATE	80 80 80			-				
5. 600p	250 U,	Zax:	432	989	9810989	9	1	<del>22011/21/1/21/21/2</del>	Ø		ang at Laurence and Section 1999	□ ₺99				П НЕВВ П	TCLP [	0108/7.009	D TNIO9H	☐ 109 ☐		***************************************		
RAS#:	Facility/State ID#(TN Only):	uo NT)#	ly):				 		oaa s			1 □ s.ε	[] Si	0728	S ONLY		******	S) [] JA1		1700 1		ξ		
AFE#(Terminal Only):		Consultant Project #	ant Proj	ect #:			1		108			ΓÞ ,V/	05   				-	rot ,		00115		-25		
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□ EE 0160 ExxonMobil Oil Corp □	ö =	kM 0944 ExxonMobil Marketing &	i Marke	ing & P	Ref. Co. E	D 807		-			(Z) SEL	□ 1.E	ZZ8					'VED		118.1		op.		
0614 ExxonMobil Pipeline Co. □ Purchase Order No.:		0231 Mobil Oil Pipeline Co. 🛘	ipeline (	200								-	-	-				IOSSI		**COUNTY		إورا		
SAMPLE I.D.	DATE TIME COMP. GRAB	GRAB	MA N <sub>2</sub> O S	MATRIX SOIL AIR	OTHER	PRESE	PRESERVATIVE	CONT.		ХЭТВ	DXYG OXYG	-	SEMI-					IO ,89			ŊХОТ	Y		
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58m3-1-2'		-						-	-							$\dashv$				-		7	-	
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TAT (* - Contact us Prior to Sending Samples)	QA/QC Level	SPECIAL DE	-	CTION	LIMITS	ECTION LIMITS (Specify)		-		ш	REMARKS	KS:												
24 HR. * 48 HR. *	STANDARD "A"									•														More
72 HR. * 5 BUS. *	ENHANCED "B"					Į.				-				EXXC	EXXONMOBIL CONTRACT NO. C57160	BILC	NO	RACT	LNO	C57	90		9	
	FULL DATA "C"	SPECIAL RE	L RE	DRITING	REGUII		S (Speci	ify)			Wa	Wav Bill #	**					Cooler Temp	r Ten	.01	100	6	7	
15 BUS. 30 BUS.	TRRP DATA "C"	PDF [				EDD	Ì						1											1
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Consultant Co. Name:	Contact: The Build		5	ALL LOUR IN COLUMN				
Address: 2135 5, 600	0 250 W. Fax: 432 68601 86			☐ 8H3	□ 9. 0108\7 □ TM(		**********	
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TAT (* - Contact us Prior to Sending Samples)	QA/QC Level SPECIAL DETECTION LIMITS (Specify)	argentieritäminen kannan kalennan kannan	REMARKS:	TRIS BLACKS	RUM	Brex	80218	Y
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*				EXXONMOBIL	CONTRACT NO.	C57160		ponus
8 BUS. 10 BUS. 30 BUS. 30 BUS.	FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify) TRRP DATA "C" PDF   DEDD	ecify)	Way Bill #:_		Cooler Temp:	×	5	general sever
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						TOTAL DESCRIPTION OF THE PROPERTY.		-1

Triplicate: Original \* White Lab's Copy \* Green Client Copy \* Yellow



#### ExxonMobil

# Certificate of Analysis Number:

## 05081170

Report To:	Project Name: NM Satek Battery#3
Conestoga-Rovers & Associates, Inc. Jim Buice	Site: Buckey, NM Site Address:
2135 South Loop 250 West  Midland  TX	PO Number: State: Texas
79703- ph: (432) 686-0086 fax:	State Cert. No.:  Date Reported: 9/9/2005

This Report Contains A Total Of 14 Pages

Excluding This Page, Chain Of Custody

And

Any Attachments



9/9/2005

Date Reported:

## Case Narrative for: ExxonMobil

# Certificate of Analysis Number:

#### 05081170

NM Satek Battery#3 Project Name: Report To: Buckey, NM Site: Conestoga-Rovers & Associates, Inc. Site Address: Jim Buice 2135 South Loop 250 West PO Number: Midland Texas State: TX State Cert. No.: 79703-

#### Revision I:

ph (432) 686-0086

fax:

This narrative has been revised due to a laboratory error. Please insert this page into your original report. SPL apologizes for any inconvenience this error may have caused you or your company.

Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ( " mg\kg-dry " or " ug\kg-dry " ).

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representativ of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Soma West

05081170 Page 1

9/19/2005



#### ExxonMobil

## Certificate of Analysis Number:

# 05081170

Report To:

Fax To:

Conestoga-Rovers & Associates, Inc.

Jim Buice

2135 South Loop 250 West

Midland

TX

79703-

ph: (432) 686-0086

fax:

Project Name:

Site:

Buckey, NM

NM Satek Battery#3

Site Address:

PO Number:

State:

Texas

State Cert. No.:

Date Reported:

9/9/2005

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
Waste Chara.	05081170-01	Soil	8/23/2005 11:00:00 AM	8/26/2005 9:30:00 AM	2559	

Jonia West

9/9/2005

Date

Sonia West

Senior Project Manager

Joel Grice Laboratory Director

Ted Yen Quality Assurance Officer



Client Sample ID:Was	ste Chara.			Col	lected	i: 08/2	23/2005	11:00	SPL Sam	ple l	<b>D</b> : 05081	170-01
				Sit	e: E	3ucke	y, NM					
Analyses/Method	Resi	ult	QUAL	R	ep.Lim	it	Di	I. Facto	r Date Analy	zed	Analyst	Seq. #
CORROSIVITY							MCL		W9045D		nits: pH Uni	
Corrosivity	8.1	8			0.	.1		1	08/26/05 1	6:40	A_E	2917026
DIESEL RANGE ORG	ANICS						MCL	S	W8015B	Ur	nits: mg/kg	9.00
Diesel Range Organics (		D				5		1	09/07/05	0:48	CLJ	2929593
Surr: n-Pentacosane	78	.2		%	20-15	54		1	09/07/05	0:48	CLJ	2929593
Prep Method	Prep Date		Prep Initials	Pre	Factor	1						
SW3550B	08/31/2005 9:50	- sunt	EFE	1.00								
GASOLINE RANGE O	RGANICS						MCL	S	W8015B	Ur	nits: mg/kg	
Gasoline Range Organic		D			0.	.1		1	08/30/05 2	22:13	JWW	292213
Surr: 1,4-Difluorobenz		.7		%	63-14	12		1	08/30/05 2	22:13	JWW	292213
Surr: 4-Bromofluorobe	enzene 10	)5		%	50-15	59		1	08/30/05 2	22:13	JWW	292213
Prep Method	Prep Date		Prep Initials	Prei	o Facto	r						
SW5030B	08/30/2005 11:54		OFE	1.00		j						
IGNITABILITY MODIF	IFD OPEN CUP						MCL	AST	/I D92-01	Ur	nits: °F	
Ignitability	>2	12			2	20		1	09/02/05	11:15	E_S	292464
PURGEABLE AROMA	ATICS					-	MCL	S	W8021B	Uı	nits: ug/Kg	
Benzene		ID				1		1	08/26/05	22:31	JWW	2917170
Toluene	N	ID				1		1	08/26/05	22:31	JWW	291717
Ethylbenzene	N	ID				1		1	08/26/05	22:31	JWW	291717
m,p-Xylene	٨	ID				1		1	08/26/05	22:31	JWW	291717
o-Xylene	N	ID				1		1	08/26/05	22:31	JWW	291717
Xylenes,Total	N	ID	- 121 140 0134 - 7133			1		1	08/26/05	22:31	JWW	291717
Surr: 1,4-Difluorobenz	zene 98	.2		%	77-12	26		1	08/26/05	22:31	JWW	291717
Surr: 4-Bromofluorobe	enzene 1	04		%	60-16	30		1	08/26/05	22:31	JWW	291717
Prep Method	Prep Date		Prep Initials	Pre	p Facto	or						
SW5030B	08/26/2005 15:12		OFE	1.00								
REACTIVE CYANIDE	SOLID						MCL	S	W7.3.3.2	U	nits: mg/kg	
Reactive Cyanide		ID.				1		1	08/31/05	14:00	ESK	2922759
REACTIVE SULFIDE	- SOLID						MCL	S	W7.3.4.2	U	nits: mg/kg	
Reactive Sulfide	١	1D				10		1	08/31/05	10:00	ESK	292172

Soma West

Sonia West Project Manager

Qualifiers:

ND/U - Not Detected at the Reporting Limit

B - Analyte detected in the associated Method Blank

\* - Surrogate Recovery Outside Advisable QC Limits

J - Estimated Value between MDL and PQL

>MCL - Result Over Maximum Contamination Limit(MCL)

D - Surrogate Recovery Unreportable due to Dilution

MI - Matrix Interference

# Quality Control Documentation



# ExxonMobil

Analysis: Method:

RunID:

**Diesel Range Organics** 

SW8015B

NM Satek Battery#3

WorkOrder:

05081170

Lab Batch ID:

51015

**Method Blank** 

HP\_V\_050907A-2929591 Units:

mg/kg

Lab Sample ID

Samples in Analytical Batch:

Client Sample ID

Analysis Date:

09/07/2005 8:59

Analyst:

CLJ

05081170-01B

Waste Chara.

Preparation Date:

08/31/2005 9:50

Prep By: EFE Method SW3550B

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	5.0
Surr: n-Pentacosane	83.8	20-154

#### Laboratory Control Sample (LCS)

RunID:

HP\_V\_050907A-2929592

Units:

Analyst:

Analysis Date: Preparation Date: 09/07/2005 9:52 08/31/2005 9:50

EFE Method SW3550B Prep By:

mg/kg

CLJ

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	66.6	61.5	92.4	57	150

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081293-01

RunID:

HP\_V\_050907A-2929595

Units:

mg/kg

Analysis Date:

09/07/2005 12:37

Analyst:

CLJ

Preparation Date:

08/31/2005 9:50

Prep By:

EFE Method SW3550B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	133	42.9	32.2	66.6	22.9	34.4	60.8 *	50	21	175

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



## ExxonMobil NM Satek Battery#3

Analysis: Method:

RunID:

**Purgeable Aromatics** 

SW8021B

WorkOrder:

Samples in Analytical Batch:

05081170

Lab Batch ID:

R149134

Method Blank

HP\_O\_050826A-2917161

Units:

ug/Kg

Lab Sample ID

Client Sample ID

Analysis Date: Preparation Date: 08/26/2005 17:27 08/26/2005 17:27 Analyst: Prep By: **JWW** Method 05081170-01A

Waste Chara.

Analyte	Result	Rep Limit
Benzene	ND	1.0
Ethylbenzene	ND	1.0
Toluene	ND	1.0
m,p-Xylene	ND	1.0
o-Xylene	ND	1.0
Xylenes, Total	ND	1.0
Surr: 1,4-Difluorobenzene	97.5	77-126
Surr: 4-Bromofluorobenzene	105.0	60-160

#### Laboratory Control Sample (LCS)

RunID:

HP\_O\_050826A-2917160

Units:

ug/Kg

Analysis Date:

08/26/2005 16:54

JWW Analyst:

Preparation Date: 08/26/2005 16:54

Prep By:

Method SW5030B

thylbenzene oluene	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Benzene	20.0	20.2	101	70	130
Ethylbenzene	20.0	20.6	103	70	130
Toluene	20.0	20.4	102	70	130
m,p-Xylene	40.0	41.4	103	70	130
o-Xylene	20.0	20.5	103	70	130
Xylenes,Total	60.0	61.9	103	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081176-01

RunID:

HP\_O\_050826A-2917165

Units:

ug/Kg JWW

Analysis Date: Preparation Date:

08/26/2005 19:44 08/26/2005 12:54 Analyst: Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	20	18.7	90.5	20	20.6	99.9	9.56	32	36	139
Ethylbenzene	ND	20	18.0	90.2	20	19.8	98.8	9.03	32	25	138
Toluene	2.09	20	19.7	88.1	20	21.3	96.2	7.89	34	31	138

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil NM Satek Battery#3

Analysis: Method: Purgeable Aromatics

SW8021B

ballery#3

WorkOrder:

05081170

Lab Batch ID:

R149134

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081176-01

RunID:

HP\_O\_050826A-2917165

Units: Analyst: ug/Kg JWW

Analysis Date: Preparation Date: 08/26/2005 19:44 08/26/2005 12:54

Prep By:

OFE Method SW5030B

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
m,p-Xylene	ND	40	35.8	89.6	40	38.9	97.4	8.36	34	25	139
o-Xylene	ND	20	18.0	90.0	20	19.2	96.1	6.55	32	19	144
Xylenes,Total	ND	60	53.8	89.7	60	58.1	96.9	7.76	34	19	144

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



#### ExxonMobil NM Satek Battery#3

Analysis:

Gasoline Range Organics

Method:

RunID:

SW8015B

WorkOrder:

05081170

Lab Batch ID:

R149442

**Method Blank** 

HP\_O\_050830B-2922133

Units:

Lab Sample ID

Client Sample ID

Analysis Date:

08/30/2005 18:45

JWW Analyst:

mg/kg

05081170-01A

Samples in Analytical Batch:

Preparation Date:

08/30/2005 18:45

Prep By:

Method

Waste Chara.

Analyte	Result	Rep Limit	
Gasoline Range Organics	ND	0.10	
Surr: 1,4-Difluorobenzene	99.7	63-142	
Surr: 4-Bromofluorobenzene	105.0	50-159	

#### Laboratory Control Sample (LCS)

RunID:

HP\_O\_050830B-2922132

Units:

mg/kg JWW

Analysis Date: Preparation Date: 08/30/2005 18:08 08/30/2005 18:08 Analyst: Prep By:

Method SW5030B

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Gasoline Range Organics	1.00	0.870	87.0	70	130

#### Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked:

05081293-01

RunID:

HP\_O\_050830B-2922142

Units:

Analyst:

Analysis Date: Preparation Date: 08/31/2005 4:49 08/30/2005 15:02

Prep By:

OFE Method SW5030B

mg/kg

JWW

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics	ND	1	0.880	88.0	1	0.875	87.5	0.513	50	26	147

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil NM Satek Battery#3

Analysis: Method:

Corrosivity SW9045D W Satek Battery#3

WorkOrder:

05081170

Lab Batch ID:

R149126

Samples in Analytical Batch:

Lab Sample ID 05081170-01B Client Sample ID

Waste Chara.

Laboratory Control Sample (LCS)

RunID:

Analysis Date:

WET 050826J-2917025

Units:

pH Units

08/26/2005 16:40 Analyst:

A\_E

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Corrosivity	7.000	7.010	100.1	98	102

#### Sample Duplicate

Original Sample:

05081170-01

RunID:

WET\_050826J-2917026

Units:

pH Units

Analysis Date:

08/26/2005 16:40

Analyst:

A\_E

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Corrosivity	8.18	8.17	0.122	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil NM Satek Battery#3

Analysis:

Reactive Sulfide - Solid

Method:

SW7.3.4.2

w Satek Battery#3

WorkOrder:

05081170

Lab Batch ID:

R149418

Method Blank

Samples in Analytical Batch:

RunID:

WET\_050831C-2921718

Units:

mg/kg

Lab Sample ID

Client Sample ID

Analysis Date:

08/31/2005 10:00

Analyst:

**ESK** 

05081170-01B

Waste Chara.

Analyte	Result	Rep Limit
Reactive Sulfide	ND	10

#### Laboratory Control Sample (LCS)

RunID:

WET\_050831C-2921720

Units:

mg/kg

Analysis Date:

08/31/2005 10:00

Analyst: ESK

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Reactive Sulfide	100.0	95.60	95.60	85	115

#### Sample Duplicate

Original Sample:

05081233-01

RunID:

WET\_050831C-2921722

Units:

mg/kg

Analysis Date:

08/31/2005 10:00

Analyst:

ESK

Analyte	Sample	DUP	RPD	RPD
	Result	Result		Limit
Reactive Sulfide	ND	ND	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



# ExxonMobil

Analysis:

Reactive Cyanide-Solid

Method:

SW7.3.3.2

NM Satek Battery#3

WorkOrder:

05081170

Lab Batch ID:

R149473

Method Blank

Samples in Analytical Batch:

RunID:

WET\_050831N-2922755

Units:

mg/kg ESK

Lab Sample ID

Client Sample ID

Analysis Date:

08/31/2005 14:00

Analyst:

05081170-01B

Waste Chara.

Analyte	Result	Rep Limit
Reactive Cyanide	ND	1.0

#### Laboratory Control Sample (LCS)

RunID:

WET\_050831N-2922756

Units:

mg/kg

Analysis Date:

08/31/2005 14:00

Analyst: ESK

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Reactive Cyanide	2.000	0.4020	20.10	5	50

#### Sample Duplicate

Original Sample:

05081233-01

RunID:

WET\_050831N-2922760

Units:

mg/kg

Analysis Date:

08/31/2005 14:00

Analyst: ESK

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Cvanide	ND	ND	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

\* - Recovery Outside Advisable QC Limits



HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### ExxonMobil NM Satek Battery#3

Analysis: Method:

Ignitability Modified Open Cup

**ASTM D92-01** 

WorkOrder: Lab Batch ID: 05081170

R149584

Samples in Analytical Batch:

Lab Sample ID

Client Sample ID

05081170-01B

Waste Chara.

#### Laboratory Control Sample (LCS)

RunID:

WET 050902C-2924640

Units: °F

Analysis Date:

09/02/2005 11:15

Analyst:

E\_S

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Ignitability	81.0	81.1	100	97.5	102.5

#### Sample Duplicate

Original Sample:

05081234-01

WET\_050902C-2924642

Units:

°F E\_S

Analysis Date:

RunID:

09/02/2005 11:15

Analyst:

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Ignitability	212	212	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit

MI - Matrix Interference

N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.

B - Analyte detected in the associated Method Blank

D - Recovery Unreportable due to Dilution

J - Estimated value between MDL and PQL

rounding, the reported RPD may differ from the displayed RPD values but is correct as reported.

\* - Recovery Outside Advisable QC Limits

The percent recoveries for QC samples are correct as reported. Due to significant figures and

05081170 Page 12

# Sample Receipt Checklist And Chain of Custody



#### HOUSTON LABORATORY 8880 INTERCHANGE DRIVE HOUSTON, TX 77054 (713) 660-0901

#### Sample Receipt Checklist

Workorder: Date and Time Received: Temperature:	05081170 8/26/2005 9:30:00 AM 3.0°C				ard Overnight
1. Shipping container/c	ooler in good condition?	Yes 🗸	No 🗆	Not Present	
2. Custody seals intact	on shippping container/cooler?	Yes 🗹	No 🗆	Not Present	
3. Custody seals intact	on sample bottles?	Yes 🗌	No 🗆	Not Present	
4. Chain of custody pre	sent?	Yes 🗹	No 🗆		
5. Chain of custody sig	ned when relinquished and received?	Yes 🗸	No 🗆		
6. Chain of custody agr	ees with sample labels?	Yes 🗹	No 🗆		
7. Samples in proper co	ontainer/bottle?	Yes 🗸	No 🗌		
8. Sample containers in	tact?	Yes 🗸	No 🗆	g.	
9. Sufficient sample vo	ume for indicated test?	Yes 🗸	No 🗌		
10. All samples received	within holding time?	Yes 🗸	No 🗆		
11. Container/Temp Blar	k temperature in compliance?	Yes 🗹	No 🗆		
12. Water - VOA vials ha	ve zero headspace?	Yes 🗌	No 🗌	VOA Vials Not Present	$\checkmark$
13. Water - Preservation	checked upon receipt (except VOA*)?	Yes 🗌	No 🗆	Not Applicable	
*VOA Preservation C	hecked After Sample Analysis				
SPL Representat Client Name Contac		Contact	Date & Time:		
Non Conformance Issues:				g	
Client Instructions:					

05081170

Hacknows		SPL WORKORDER NO	ER NO.	2000	Page / of	f L
ExxonMobil Engineer: Chris	Chris Cloved Phone: 28/654 8460		HO)	ANALYSIS REQUEST: (CHECK APPROPRIATE BOX)		OTHER
130	200 250 Lax: 432 6	¥она	□ 1991 □ 3	[] 07S	П 98, ТССР П и. (200.7/601) У. ГелезиРОИТФ П 108 П 1508	
AFE#(Terminal Only):  Location: NM Sngre K BATEY #3	Consultant Project #:  (City) Bokeye (Sta		(7) 8260 □	V □ 8EWF-AOV □ V1\8085 □ BCB □ 8310 □ 852	☐ 0109 ☐ C. ATOT, AB ☐ G SYTIVISORHOOD BYTIVISORHOOH BYTI	
0160 ExxonMobil Oil Corp □ 0614 ExxonMobil Pipeline Co. □ Purchase Order No.:		F CONTAINER SIZE		.VOL. 8:2	OTAL 200 J∃VJO22I ޶ YTIVII	
.D.	TIME COMP. GRAB MATRIX OTHER P	0.ОИ СОИТ ТРН/С	оххо	SEMI-	PB, TG PB, D PURG PURG	
WASSE CHARA.	8/23 1100 X X 40C	X			*	
r - Contact u Sam	QA/QC Level SPECIAL DETECTION LIMITS (Specify)		REMARKS:		ANALYSIS ANA	- ''
				EXXONMOBIL C	EXXONMOBIL CONTRACT NO. C57160	
8 BUS. 10 BUS. 15 BUS. 30 BUS.	FULL DATA "C" SPECIAL REPORTING REQUIREMENTS (Specify) TRRP DATA "C" DED	cify)	Way Bill #:		Cooler Temp:	,0
CUSTODY	Relinquished By Sampler:	S/Aur/our	Time /000/	Received By:		
	nemidusined:	Date	- 1	Heceived By:		
	Relinquished	87260T	Organ Sylvan	Received By  /	INDIA	
		8 रिक्रिक	828	9/M	Weds	



Client: CRA						
:ct: Exxon/	Mobil – NM State K Tank	Battery #3	Date Started: 8/22/05	Well No.: SB-1		
Project Address: State/City/Zip:	Buckeye, N.M.		Date Completed: 8/22/05	Total Depth: 20.0		
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4		
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By; Dallas Rader		
	WELL COMPLETION	ON DATA	WELL PLUGGING DATA			
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A		
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 - 0.0 / soil cuttings		
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags: /	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:		
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	X Clean Dirty		
DEPTH (ft.)		DESC	RIPTION			
0.0 - 1.0	Brown clayey s					
1.0 - 2.0	Tan caliche & l	imestone cobbles.				
2.0 - 4.0	Limestone.					
4.0 - 20.0	Tan calcihe.					
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ePTH (ft.)			DESCRIPT	TION	37.44	
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Per Diem (days)	Well Dev./hrs.	Decon/hrs.	Packer Tests/L.F.	NX Core/ft.	Time/hrs.	Rig Time/hrs.
ORILLING ME	ETHOD: PO A	ir Rotary 🗆 N	Aud Rotary 🛘 Di	iven □ Air H	ammer []	Other
SURFACE CO	MPETION:					
Alternative Pro		□ Surface Sle	eeve Installed			
Surface Slab In	nstalled	□ Pitless Ada	npter Used			
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et and the second secon						
e	***************************************					
DRILLERS SIGNA	ATURE	0/				
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Client: CRA					
ett: Exxon/Mobil – NM State K Tank Battery #3			Date Started: 8/22/05	Well No.: SB-2	
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/22/05	Total Depth: 20.0	
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4	
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader	
	WELL COMPLETION	ON DATA	WELL PLUGGING DATA		
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A	
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 – 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 - 0.0 / soil cuttings	
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags:	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	X Clean ☐ Dirty	
DEPTH (ft.)		DESC	RIPTION		
0.0 - 2.0 2.0 - 3.0	Brown clayey s Tan caliche & l	and. imestone cobbles.			
3.0 - 9.5	Tan Caliche.		general and the second of the	ACTUAL CONTRACTOR OF THE CONTR	
9.5 - 18.0	Limestone.				
18.0 - 20.0	Tan Calcihe.				
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Page 2 of 2

DEPTH (ft.) DESCRIPTION Standby Time/hrs. Rig Time/hrs. Well Dev./hrs. Decon/hrs. Packer Tests/L.F. NX Core/ft. Per Diem (days) DRILLING METHOD: Air Rotary 🗆 Mud Rotary 🗆 Driven 🗆 Air Hammer 🗀 Other SURFACE COMPETION: Alternative Procedure Used ☐ Surface Sleeve Installed Surface Slab Installed ☐ Pitless Adapter Used NOTES: DRILLERS SIGNATURE:

Page 1 of 2

Chent: CRA		- I II	N . 0 . 1 0/02/05	W HAL OD 2	
cct: Exxon/Mobil – NM State K Tank Battery #3			Date Started: 8/22/05	Well No.: SB-3	
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/22/05	Total Depth: 20.0	
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4	
Owner Address: State/City/Zip:			Driller's Helpers: Logged By: Dallas Rader Dallas Rader		
	WELL COMPLETION	ON DATA	WELL PLUGGING DATA		
Diameter:	Sereen Slot: PVC or Steel Schedule		Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A	
Screen Depth:	Sand Feet/Bags:			Cement Feet/Bags: 1.0 0.0 / soil cuttings	
Riser Depth:	Bentonite Feet/Bags:			Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	☐ Clean ☐ Dirty	
~EPTH (ft.)		DESC	RIPTION		
0.0 - 2.0 2.0 - 3.0	Brown clayey sa Tan caliche & l	and. imestone cobbles.			
3.0 - 20.0	Tan Caliche.				
				1000 C 100 C	
			A		

Page 2 of 2 DESCRIPTION DEPTH (ft.) Standby Rig Time/hrs. Packer Tests/L.F. NX Core/ft. Time/hrs. Well Dev./hrs. Decon/hrs. Per Diem (days) ☐ Air Rotary ☐ Mud Rotary ☐ Driven ☐ Air Hammer ☐ Other DRILLING METHOD: SURFACE COMPETION: ☐ Surface Sleeve Installed ☐ Alternative Procedure Used ☐ Pitless Adapter Used ☐ Surface Slab Installed NOTES:

DRILLERS SIGNATURE:\_\_\_\_\_

Client: CRA					
et: Exxon/N	Mobil – NM State K Tank	Battery #3	Date Started: 8/22/05	Well No.: SB-4	
Project Address: State/City/Zip:	Buckeye, N.M.		Date Completed: 8/22/05	Total Depth: 20.0	
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4	
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader	
	WELL COMPLETION	ON DATA	WELL PLU	GGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A	
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 – 0.0 / soil cuttings	
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags: /	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: DRY	)⊈Clean □ Dirty	
DEPTH (ft.)		DESC	RIPTION		
00 20	Brown clayey sa	and			
0.0 - 2.0 2.0 - 3.0		mestone cobbles.			
3.0 - 11.0	Tan Caliche.				
3.0 - 11.0 11.0 - 15.0	Limestone.				
15.0 – 20.0	Tan Caliche.				
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Per Diem (days)	Well Dev./hrs.	Decon/hrs.	Packer Tests/L.F.	NX Core/ft.	Standby Time/hrs.	Rig Time/hrs.
RILLING ME	THOD: X A	ir Rotary 🛮 N	fud Rotary 🛛 Dr	iven 🗆 Air Ha	ammer 🗆	Other
TUDEL CE CO	SENSON AND					
SURFACE CON Alternative Pro		□ Surface Sle				
Surface Slab In	stalled	☐ Pitless Ada	pter Used			
OTES:						
		$\sim 0$				
DRILLERS SIGNA	ATURE:	1/2				

Client: CRA					
et: Exxon/Mobil - NM State K Tank Battery #3			Date Started: 8/22/05	Well No.: SB-5	
Project Address: State/City/Zip:	Buckeye, N.M.		Date Completed: 8/22/05	Total Depth: 20.0	
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4	
Owner Address: State/City/Zip:			Driller's Helpers: Logged By: Dallas Rader Dallas Rade		
	WELL COMPLETION	ON DATA	WELL PLU	GGING DATA	
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A	
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 – 0.0 / soil cuttings	
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags: /	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level; DRY	Clean □ Dirty	
DEPTH (ft.)		DESC	RIPTION		
0.0 - 2.0	Brown clayey sa				
2.0 - 4.0	Tan caliche & li	imestone cobbles.			
4.0 - 10.0	Tan Caliche.				
10.0 - 13.0	Limestone.				
13.0 - 20.0	Tan Caliche.				
<b></b>					
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Page 2 of 2 DESCRIPTION \_\_PTH (ft.) Standby Rig Time/hrs. NX Core/ft. Time/hrs. Decon/hrs. Packer Tests/L.F. Per Diem (days) Well Dev./hrs. Air Rotary 🗆 Mud Rotary 🗆 Driven 🗆 Air Hammer 🗀 Other DRILLING METHOD: **SURFACE COMPETION:** ☐ Surface Sleeve Installed 3 Alternative Procedure Used 3 Surface Slab Installed ☐ Pitless Adapter Used VOTES: DRILLERS SIGNATURE:

ct: Exxon/N	Mobil – NM State K Tank	Battery #3	Date Started: 8/22/05	Well No.: SB-6		
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/22/05	Total Depth: 20.0		
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4		
Owner Address: State/City/Zip:			Driller's Helpers: Logged By: Dallas Rader Dallas Rader			
***************************************	WELL COMPLETION	ON DATA	WELL PLUGGING DATA			
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A		
Screen Depth:	Sand Feet/Bags:			Cement Feet/Bags: 1.0 - 0.0 / soil cuttings		
Riser Depth:	Bentonite Feet/Bags:			Total Disposal Drums:		
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	Clean		
DEPTH (ft.)		DESC	RIPTION			
0.0 - 2.0	Brown clayey s Tan caliche & 1	and. imestone cobbles.				
3.0 - 20.0	Tan Caliche.					
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Page 2 of 2

PTH (ft.)			DESCRIPT	TON		
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			Marie 2 - 10.2 (1.00)   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00   1.00			
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r Diem (days)	Well Dev./hrs.	Decon/hrs.	Packer Tests/L.F.	NX Core/ft.	Standby Time/hrs.	Rig Time/hrs.
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urface Slab Ir		☐ Pitless Ada				
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CHEIII: CKA						
ect: Exxon/Mobil - NM State K Tank Battery #3			Date Started: 8/23/05	Well No.: SB-7		
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/23/05	Total Depth: 20.0		
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4		
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader		
AND PARTIES AND	WELL COMPLETION	ON DATA	WELL PLUGGING DATA			
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A		
Screen Depth:	Sand Feet/Bags:	Sand Síze:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 - 0.0 / soil cuttings		
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags: /	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:		
Surface Csg. Dia:	Surface Casing Depth:	ing Depth:   Cement Feet/Bags:		Clean 🗆 Dirty		
DEPTH (ft.)		DESC	RIPTION			
0.0 - 2.0	Brown clayey sa	and.				
2.0 - 3.0		Tan caliche & limestone cobbles.				
3.0 - 20.0	Tan Caliche.					
A-100 MARKANIA (100 MARKANIA (						
****		AND COMMAND AND AND AND AND AND AND AND AND AND		AND THE PROPERTY OF THE PROPER		
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Page 2 of 2 DEPTH (ft.) DESCRIPTION Standby Rig Time/hrs. Well Dev./hrs. Decon/hrs. Packer Tests/L.F. NX Core/ft. Time/hrs. Per Diem (days) Air Rotary 

Mud Rotary 

Driven 

Air Hammer 

Other DRILLING METHOD: SURFACE COMPETION: ☐ Alternative Procedure Used ☐ Surface Sleeve Installed ☐ Pitless Adapter Used ☐ Surface Slab Installed NOTES: DRILLERS SIGNATURE:

Page 1 of 2

Client: CRA								
: .ct: Exxon/Mobil - NM State K Tank Battery #3			Date Started: 8/23/05	Well No.: SB-8				
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/23/05	Total Depth: 20.0				
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4				
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader				
WELL COMPLETION DATA			WELL PLUGGING DATA					
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A				
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 – 0.0 / soil cuttings				
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags:	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:				
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	Z Clean	□ Dirty			
DEPTH (ft.)		DESC	RIPTION					
0.0 - 5.0 5.0 - 6.0	Brown clayey s Tan caliche & 1	and. imestone cobbles.						
1,770,000	Tan Caliche.		The state of the s	Parameter Commission C				
6.0 - 8.0 8.0 - 18.0	Limestone.		The state of the s					
18.0 - 20.0	Tan Caliche.	Tan Caliche.						
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Page 2 of 2 DESCRIPTION υΕΡΤΗ (ft.) Standby Rig Time/hrs. Packer Tests/L.F. NX Core/ft. Time/hrs. Decon/hrs. Per Diem (days) Well Dev./hrs. Air Rotary 

Mud Rotary 

Driven 

Air Hammer 

Other DRILLING METHOD: SURFACE COMPETION: ☐ Alternative Procedure Used Surface Sleeve Installed [] Pitless Adapter Used ☐ Surface Slab Installed NOTES: DRILLERS SIGNATURE:

Client: CRA	Mobil NM State K Tank	Battery #3	Date Started: 8/23/05	Well No.: SB-9	
ct: Exxon/Mobil - NM State K Tank Battery #3					
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/23/05	Total Depth: 20.0	
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4	
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader	
	WELL COMPLETION	ON DATA	WELL PLUGGING DATA		
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A	
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 - 0.0 / soil cuttings	
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags: /	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:	
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags:	Water Level: DRY	Clean ☐ Dirty	
DEPTH (ft.)		DESC	RIPTION		
0.0 - 4.0 4.0 - 6.5	Brown clayey sa Tan caliche.	and.			
6.5 - 13.0 13.0 - 20.0	Limestone. Tan Caliche.				

Page 2 of 2 DESCRIPTION DEPTH (ft.) Standby Rig Time/hrs. NX Core/ft. Time/hrs. Decon/hrs. Packer Tests/L.F. Well Dev./hrs. Per Diem (days) Air Rotary 

Mud Rotary 

Driven 

Air Hammer 

Other DRILLING METHOD: SURFACE COMPETION: ☐ Surface Sleeve Installed Alternative Procedure Used ☐ Pitless Adapter Used Surface Slab Installed OTES: DRILLERS SIGNATURE:\_

Client: CRA	Mobil – NM State K Tank	Battery #3	Date Started: 8/23/05	Well No.: SB-10		
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/23/05	Total Depth: 20.0		
Well Owner: Exxon/Mobil  Owner Address: State/City/Zip:			Driller: John White	Hole Diameter: 4 3/4		
			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader		
	WELL COMPLETION	ON DATA	WELL PLUGGING DATA			
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A		
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 – 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 – 0.0 / soil cuttings		
Riser Depth:	Bentonite Feet/Bags:	Cement Feet/Bags:	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:		
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: DRY	∕A-Clean □ Dirty		
DEPTH (ft.)		DESC	RIPTION			
0.0 - 4.0 4.0 - 20.0	Brown clayey s Tan caliche.	and.				
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Page 2 of 2 DEPTH (ft.) DESCRIPTION Standby NX Core/ft. Time/hrs. Rig Time/hrs. Decon/hrs. Packer Tests/L.F. Per Diem (days) Well Dev./hrs. Air Rotary 

Mud Rotary 

Driven 

Air Hammer DRILLING METHOD: SURFACE COMPETION: ☐ Surface Sleeve Installed ☐ Alternative Procedure Used ☐ Pitless Adapter Used ☐ Surface Slab Installed NOTES:

DRILLERS SIGNATURE:

Client: CRA						
ct: Exxon/Mobil – NM State K Tank Battery #3			Date Started: 8/23/05	8/23/05 Well No.: SB-11		
Project Address: Buckeye, N.M. State/City/Zip:			Date Completed: 8/23/05	Total Depth: 20.0		
Well Owner: Exxon/Mobil			Driller: John White	Hole Diameter: 4 3/4		
Owner Address: State/City/Zip:			Driller's Helpers: Dallas Rader	Logged By: Dallas Rader		
J	WELL COMPLETION	ON DATA	WELL PLUGGING DATA			
Diameter:	Screen Slot:	PVC or Steel Schedule:	Casing left in well (ft): N/A	Total Casing Pulled (ft): N/A		
Screen Depth:	Sand Feet/Bags:	Sand Size:	Bentonite Feet/bags: 20.0 - 1.0 / 3 bgs.	Cement Feet/Bags: 1.0 – 0.0 / soil cuttings		
Riser Depth:	Bentonite Feet/Bags: /	Cement Feet/Bags:	GPS: N-32-47-26.4 W-103-28-31.6	Total Disposal Drums:		
Surface Csg. Dia:	Surface Casing Depth:	Cement Feet/Bags: /	Water Level: DRY	Clean 🛘 Dirty		
DEPTH (ft.)		DESC	RIPTION			
0.0 - 2.0 2.0 - 20.0	Brown clayey sa Tan caliche.	and.				
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Page 2 of 2

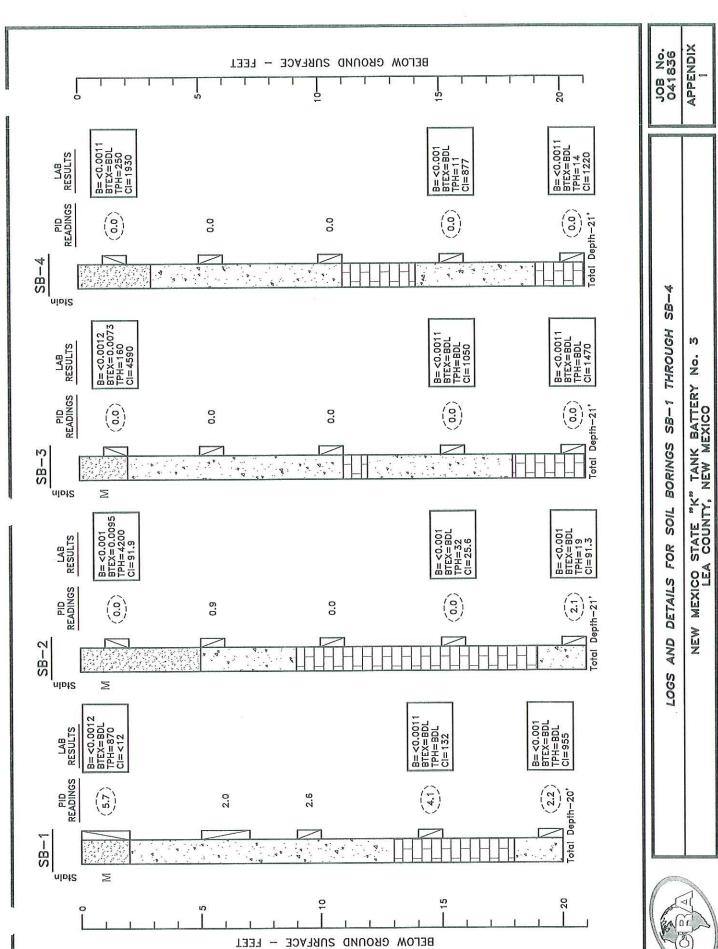
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Per Diem (days)	Well Dev./hrs.	Decon/hrs.	Packer Tests/L.F.	NX Core/ft.	Standby Time/hrs.	Rig Time/hrs.
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RILLING ME	THOD: X A	ir Rotary 🗆 D	Iud Rotary □ Dr	iven 🗆 Air H	ammer 🛘	Other
URFACE COM Alternative Pro Surface Slab In	cedure Used	□ Surface Slo				
OTES:		and a construction of the original design of the second				
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PRILLERS SIGNA	ATURE:	02				
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SOIL	TYPE
	Slity Sand (SM) — Moist, loose, 0—1' depth interval contains organic plant matter.
	Calcareous Silty Sand (SM) — White, friable (callche).
	Limestone interbedded with Calcareous Silt (LS/ML) — (Caliche), cemented, friable, dry.
	Clay (CL) — Minor sand, medium plasticity, minor calcareous nodules, wet.
	Indicates sample selected for laboratory analysis.
b	Indicates sample interval. Sample was obtained by shovel.
	Indicates sample interval. Sample was obtained by drill cuttings.
•	
M	Indicates Slight to Medium Staining
Н	Indicates Heavy Staining
В	Benzene Concentration (mg/kg)
BTEX	Benzene, Toluene, Ethylbenzene and Xylenes Concentration (mg/kg)
TPH	Total Petroleum Hydrocarbons Concentration (mg/kg)
CI	Chloride Concentration (mg/kg)
BDL	Below Method Detection Limits
PID	Head—space readings in ppm obtained with a photo—ionization detector.

#### NOTES

- The soil borings were drillted on August 22-23, 2005.
- The lines between soil types indicated on the logs represent approximate boundaries. Actual transitions may be gradual.
- The depths indicated are referenced from the ground surface.
- 4. Soil borings were plugged with hydrated bentonite.



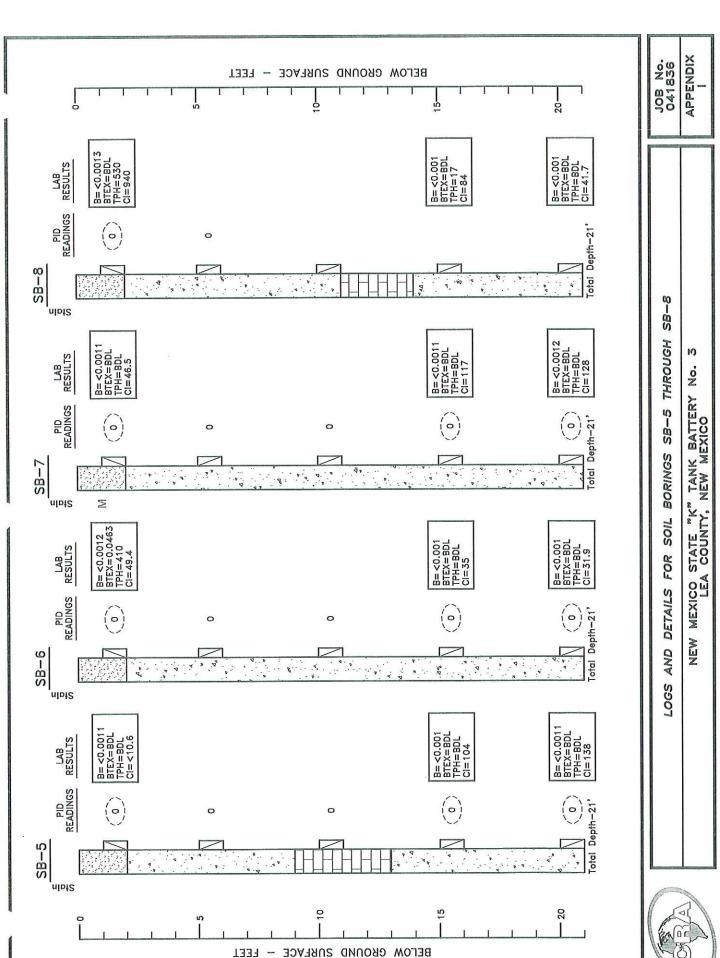




120705

SLR

041836 SB Logs

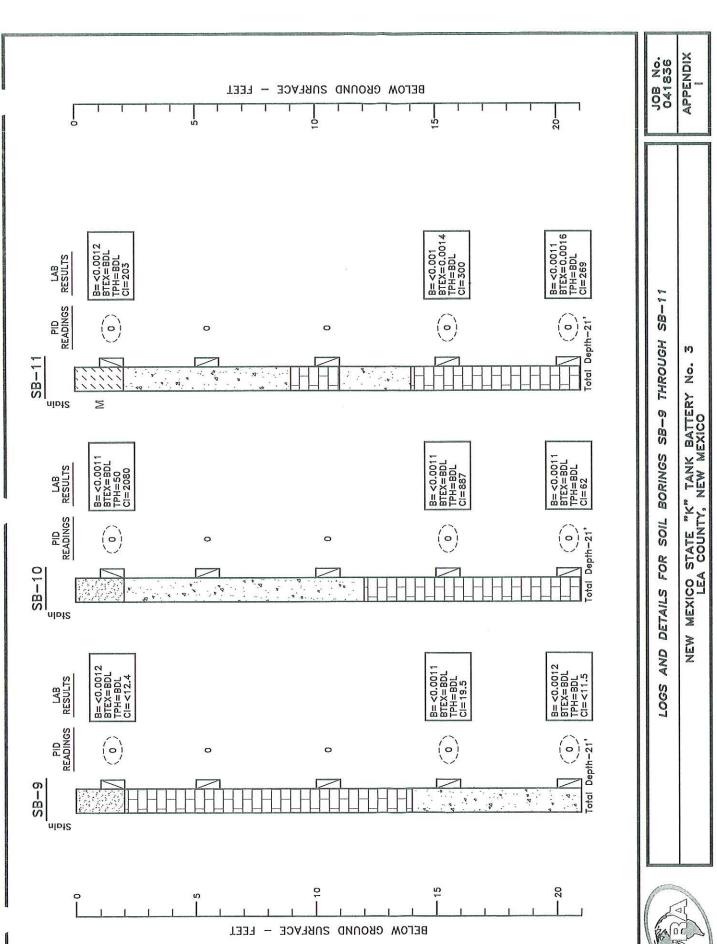




120705

SLR

041836 SB Logs





041836 SB Logs

120705

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