

Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: <u>www.hallenvironmental.com</u>

February 09, 2015

Danny Velo RMR Operating 415 W Wall St, Ste 1310 Midland, TX 79701 TEL: (214) 871-0400 FAX (214) 871-0406 **RECEIVED** By OCD; Dr. Oberding at 2:59 pm, Apr 24, 2015

RE: Sunray State Remediation

OrderNo.: 1501A83

Dear Danny Velo:

Hall Environmental Analysis Laboratory received 30 sample(s) on 1/29/2015 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to <u>www.hallenvironmental.com</u> or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

andy

Andy Freeman Laboratory Manager 4901 Hawkins NE Albuquerque, NM 87109

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	Date Reported: 2
CLIENT: RMR Operating	Client Sample ID: 1A
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:00:00

Hall Environmental Analysis Laboratory, Inc.

0:00 PM Received Date: 1/29/2015 12:00:00 PM

Lab ID: 1501A83-001	Matrix: S	Received	Received Date: 1/29/2015 12:00:00 PM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: LGT	
Chloride	52	7.5	mg/Kg	5	2/2/2015 1:18:44 PM	17519	
EPA METHOD 418.1: TPH					Analy	st: WL	
Petroleum Hydrocarbons, TR	1000	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491	
WALKLEY BLACK TOC/FOC/OM					Analys	st: SRM	
тос	0.56	0.13	% C	1	2/3/2015 11:14:00 AM	17527	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 1 o
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 1 (
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

2/2/2015 2:08:22 PM

2/3/2015 12:00:00 PM 17491

2/3/2015 11:14:00 AM 17527

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10

1

Analyst: LGT

Analyst: WL

Analyst: SRM

17519

Lab ID: 1501A83-002	Matrix: SOIL	Received Date: 1/29/2015 12:00:00 PM
Analyses	Result R	RL Qual Units DF Date Analyzed Batcl

23

2700

0.26

7.5

200

0.14

mg/Kg

mg/Kg

% C

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 300.0: ANIONS

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Chloride

TOC

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in th
	Е	Value above quantitation range	Н	Holding times for pre
	J	Analyte detected below quantitation limits	ND	Not Detected at the R
	0	RSD is greater than RSDlimit	Р	Sample pH greater that
	R	RPD outside accepted recovery limits	RL	Reporting Detection I

- Spike Recovery outside accepted recovery limits S
- the associated Method Blank
- reparation or analysis exceeded
 - Reporting Limit Page 2 of 33
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- Limit

Hall Environmental Analysis Labor	atory, Inc. Date Reporte
CLIENT: RMR Operating	Client Sample ID: 2A
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:0

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-003	Matrix: SOIL Received Date: 1/29/2015 12:0					
Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1400	75	mg/Kg	50	2/3/2015 6:53:09 PM	17519
EPA METHOD 418.1: TPH					Analys	t: WL
Petroleum Hydrocarbons, TR	41	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
тос	0.30	0.14	% C	1	2/3/2015 11:14:00 AM	17527

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the
	Е	Value above quantitation range	Н	Holding times for prep
	J	Analyte detected below quantitation limits	ND	Not Detected at the Re
	0	RSD is greater than RSDlimit	Р	Sample pH greater than
	R	RPD outside accepted recovery limits	RL	Reporting Detection Li
	S	Spike Recovery outside accepted recovery limits		

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- eparation or analysis exceeded
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- Limit

Hall Environmental Analysis Laboratory, I	nc. D
CLIENT: RMR Operating	Client Sample ID: 2B

Client Sample ID: 2B Collection Date: 1/27/2015 12:00:00 PM

Project:	Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-004		Matrix: SOIL		Received			
Analyses		Result	RL Qua	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: LGT
Chloride)	1200	30	mg/Kg	20	2/2/2015 4:00:03 PM	17519
EPA ME	THOD 418.1: TPH					Analys	t: WL
Petroleu	um Hydrocarbons, TR	49	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLE	EY BLACK TOC/FOC/OM					Analys	t: SRM
тос		0.35	0.13	% C	1	2/3/2015 11:14:00 AM	17527

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associ
	Е	Value above quantitation range	Н	Holding times for preparation
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
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- on or analysis exceeded
 - ng Limit Page 4 of 33
- RL Reporting Detection Limit

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CLIENT: RMR Operating		Client Sample ID: 3A
Project: Sunray State Remediation		Collection Date: 1/27/2015 12:00:00 PM
Lab ID: 1501A83-005	Matrix: SOIL	Received Date: 1/29/2015 12:00:00 PM

Hall Environmental Analysis Laboratory, Inc.

Lub ID: 13011105 005			Received Dute: 1/29/2019 12:00:00 110			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	11	7.5	mg/Kg	5	2/2/2015 4:12:27 PM	17519
EPA METHOD 418.1: TPH					Analys	it: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
TOC	0.24	0.12	% C	1	2/3/2015 11:14:00 AM	17527

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analysi	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 5 o
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 uge 5 (
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hall Environmental Analysis Laboratory, Inc.	
CLIENT: RMR Operating	Client Sample ID: 3B

Client Sample ID: 3B Collection Date: 1/27/2015 12:00:00 PM

Project: Sunray State Remediation			Collection	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-006	Matrix: S	OIL	Received	Date: 1/2	29/2015 12:00:00 PM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	300	30	mg/Kg	20	2/2/2015 4:49:40 PM	17519
EPA METHOD 418.1: TPH					Analys	t: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
тос	0.48	0.13	% C	1	2/3/2015 11:14:00 AM	17527

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the asso
	Е	Value above quantitation range	Н	Holding times for preparation
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.
	р		DI	D I D I I I

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 - ting Limit Page 6 of 33
- RL Reporting Detection Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

	Date Reported.
CLIENT: RMR Operating	Client Sample ID: 4A
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:00:0

Hall Environmental Analysis Laboratory, Inc.

00:00 PM Received Date: 1/29/2015 12:00:00 PM

Lab ID: 1501A83-007	Matrix: S	SOIL	Received	Date: 1/29/2015 12:00:00 PM			
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS				Analy	st: LGT		
Chloride	83	7.5	mg/Kg	5 2/2/2015 5:02:04 PM	17519		
EPA METHOD 418.1: TPH				Analy	st: WL		
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 2/3/2015 12:00:00 PM	/ 17491		
WALKLEY BLACK TOC/FOC/OM				Analy	st: SRM		
тос	0.30	0.13	% C	1 2/3/2015 11:14:00 AN	/ 17527		

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected
	Е	Value above quantitation range	Н	Holding times for
	J	Analyte detected below quantitation limits	ND	Not Detected at th
	0	RSD is greater than RSDlimit	Р	Sample pH greate
	R	RPD outside accepted recovery limits	RL	Reporting Detection
	S	Spike Recovery outside accepted recovery limits		

- in the associated Method Blank
- or preparation or analysis exceeded
 - the Reporting Limit Page 7 of 33
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Hall Environmental Analysis Laboratory, Inc.]

CLIENT: RMR Operating

Client Sample ID: 4B Collection Date: 1/27/2015 12:00:00 PM

Project:	Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM		
Lab ID:	1501A83-008	Matrix: S	OIL	Received Date: 1/29/2015 12:00:00 PM				
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA ME	THOD 300.0: ANIONS					Analys	t: LGT	
Chloride)	240	30	mg/Kg	20	2/2/2015 6:04:07 PM	17519	
EPA ME	THOD 418.1: TPH					Analys	t: WL	
Petroleu	ım Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491	
WALKLE	EY BLACK TOC/FOC/OM					Analys	t: SRM	
тос		0.23	0.13	% C	1	2/3/2015 11:14:00 AM	17527	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth
	Е	Value above quantitation range	Н	Holding times for preparation or analysi

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits S
- thod Blank
- sis exceeded
- ND Not Detected at the Reporting Limit Page 8 of 33
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

2/3/2015 12:00:00 PM

2/3/2015 11:14:00 AM 17527

Analyst: WL

Analyst: SRM

17491

CLIENT: RMR Operating			Client Samp	le ID: 5A	A	
Project: Sunray State Remediation	The array State Remediation Collection Date: 1/27/2015 12:00:00 PM					[
Lab ID: 1501A83-009	Matrix: SOIL Received Date: 1/29/2015 12:00:00 PM				[
Analyses	Result	RL Qu	ıal Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	53	7.5	mg/Kg	5	2/2/2015 6:16:32 PM	17519

20

0.13

mg/Kg

% C

1

1

36

0.27

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 418.1: TPH

TOC

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in th
	Е	Value above quantitation range	Н	Holding times for prej
	J	Analyte detected below quantitation limits	ND	Not Detected at the Re
	0	RSD is greater than RSDlimit	Р	Sample pH greater that
	R	RPD outside accepted recovery limits	RL	Reporting Detection I
	S	Spike Recovery outside accepted recovery limits		

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- reparation or analysis exceeded
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- Limit

	Date Reported.
CLIENT: RMR Operating	Client Sample ID: 5B
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:00:0

Hall Environmental Analysis Laboratory. Inc.

00:00 PM Received Date: 1/29/2015 12:00:00 PM

Lab ID: 1501A83-010	Matrix: SOIL		Received	Received Date: 1/29/2015 12:00:00 PM			
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch		
EPA METHOD 300.0: ANIONS				Anal	yst: LGT		
Chloride	520	30	mg/Kg	20 2/2/2015 6:53:46 PM	1 17519		
EPA METHOD 418.1: TPH				Anal	yst: WL		
Petroleum Hydrocarbons, TR	26	20	mg/Kg	1 2/3/2015 12:00:00 P	M 17491		
WALKLEY BLACK TOC/FOC/OM				Anal	yst: SRM		
тос	0.17	0.13	% C	1 2/3/2015 11:14:00 A	M 17527		

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected i
	Е	Value above quantitation range	Н	Holding times for
	J	Analyte detected below quantitation limits	ND	Not Detected at th
	0	RSD is greater than RSDlimit	Р	Sample pH greate
	R	RPD outside accepted recovery limits	RL	Reporting Detection
	S	Spike Recovery outside accepted recovery limits		

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CLIENT:	RMR Operating			Client Sample ID: 6A
Project:	Sunray State Remediation			Collection Date: 1/27/2015 12:00:00 PM
Lab ID:	1501A83-011	Matrix: S	SOIL	Received Date: 1/29/2015 12:00:00 PM

Hall Environmental Analysis Laboratory, Inc.

Analyses	Result	RL Qu	RL Qual Units		DF Date Analyzed		
EPA METHOD 300.0: ANIONS					Analys	st: LGT	
Chloride	13	7.5	mg/Kg	5	2/2/2015 7:06:11 PM	17519	
EPA METHOD 418.1: TPH					Analys	st: WL	
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PN	17491	
WALKLEY BLACK TOC/FOC/OM					Analys	st: SRM	
тос	0.56	0.13	% C	1	2/3/2015 11:14:00 AM	17527	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	hod Blank	
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exce		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 11	
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 11	
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit		
	S	Spike Recovery outside accepted recovery limits				

2/3/2015 12:00:00 PM

2/3/2015 11:14:00 AM

Analyst: WL

Analyst: SRM

17491

17527

CLIENT: RMR Operating	Client Sample ID: 6B					
Project: Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-012	Matrix: SOIL		Received Date: 1/29/2015 12:00:00 PM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	st: LGT
Chloride	72	30	mg/Kg	20	2/2/2015 7:43:25 PM	17519

20

0.13

mg/Kg

% C

1

1

ND

0.18

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 418.1: TPH

TOC

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in
	Е	Value above quantitation range	Н	Holding times for p
	J	Analyte detected below quantitation limits	ND	Not Detected at the
	0	RSD is greater than RSDlimit	Р	Sample pH greater
	R	RPD outside accepted recovery limits	RL	Reporting Detection
	S	Spike Recovery outside accepted recovery limits		

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- preparation or analysis exceeded
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Han Environmental Analysis Labor	atory, Inc. Date Rep
CLIENT: RMR Operating	Client Sample ID: 7A
Project: Sunray State Remediation	Collection Date: 1/27/2015 1

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-013	Matrix: S	OIL		e: 1/2//2015 12:00:00 PM			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT	
Chloride	1300	75	mg/Kg	50	2/3/2015 7:05:34 PM	17519	
EPA METHOD 418.1: TPH					Analys	t: WL	
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491	
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM	
тос	0.24	0.13	% C	1	2/3/2015 11:14:00 AM	17527	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected
	Е	Value above quantitation range	Н	Holding times for
	J	Analyte detected below quantitation limits	ND	Not Detected at
	0	RSD is greater than RSDlimit	Р	Sample pH great
	R	RPD outside accepted recovery limits	RL	Reporting Detec
	S	Spike Recovery outside accepted recovery limits		

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Hall Environmental Analysis Laboratory Inc.

	J~		Date Reported.
CLIENT:	RMR Operating		Client Sample ID: 7B
Project:	Sunray State Remediation		Collection Date: 1/27/2015 12:00:0
Lab ID:	1501A83-014	Matrix: SOIL	Received Date: 1/29/2015 12:00:0

Hall Environmental Analysis Laboratory, Inc.

:00 PM Received Date: 1/29/2015 12:00:00 PM

Analyses	Result	RL Qu	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	1700	75	mg/Kg	50	2/3/2015 7:17:59 PM	17519
EPA METHOD 418.1: TPH					Analys	it: WL
Petroleum Hydrocarbons, TR	67	20	mg/Kg	1	2/3/2015 12:00:00 PM	17491
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
тос	0.27	0.13	% C	1	2/3/2015 11:14:00 AM	17527

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected
	Е	Value above quantitation range	Н	Holding times for
	J	Analyte detected below quantitation limits	ND	Not Detected at th
	0	RSD is greater than RSDlimit	Р	Sample pH greate
	R	RPD outside accepted recovery limits	RL	Reporting Detecti

- S Spike Recovery outside accepted recovery limits
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or preparation or analysis exceeded

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2/3/2015 11:14:00 AM 17527

Analyst: WL

Analyst: SRM

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17491

CLIENT: RMR Operating			Client Sampl	e ID: 8A	A	
Project: Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-015	Matrix: S	SOIL	Received	Date: 1/2	29/2015 12:00:00 PM	
Analyses	Result	RL Q	ual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	ND	7.5	mg/Kg	5	2/2/2015 9:10:17 PM	17519

20

0.13

mg/Kg

% C

1

1

ND

0.27

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 418.1: TPH

TOC

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Met	hod Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analy	sis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 15
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 450 15
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	

Spike Recovery outside accepted recovery limits

S

2/3/2015 12:00:00 PM

2/3/2015 11:14:00 AM 17527

Analyst: WL

Analyst: SRM

17491

CLIENT: RMR Operating			Client Sampl	e ID: 8F	3	
Project: Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM	[
Lab ID: 1501A83-016	Matrix: S	SOIL	Received	Date: 1/2	29/2015 12:00:00 PM	[
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	13	1.5	mg/Kg	1	2/2/2015 9:35:07 PM	17519

20

0.13

mg/Kg

% C

1

1

ND

0.21

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 418.1: TPH

TOC

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in
	Е	Value above quantitation range	Н	Holding times for p
	J	Analyte detected below quantitation limits	ND	Not Detected at the
	0	RSD is greater than RSDlimit	Р	Sample pH greater
	R	RPD outside accepted recovery limits	RL	Reporting Detection

in the associated Method Blank

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- Spike Recovery outside accepted recovery limits

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preparation or analysis exceeded

2/3/2015 12:00:00 PM

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2/3/2015 11:14:00 AM 17527

1

1

Analyst: WL

Analyst: SRM

17491

CLIENT: RMR Operating			Client Sampl	e ID: 9 <i>A</i>	Δ	
Project: Sunray State Remediation			Collection I	Date: 1/2	27/2015 12:00:00 PM	[
Lab ID: 1501A83-017	Matrix: S	OIL	Received l	Date: 1/2	29/2015 12:00:00 PM	[
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analy	st: LGT
Chloride	89	7.5	mg/Kg	5	2/2/2015 9:59:55 PM	17519

20

0.13

mg/Kg

% C

ND

0.20

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 418.1: TPH

TOC

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Met	hod Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analyst	sis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 17
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 17
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

2/2/2015 10:49:34 PM

2/3/2015 12:00:00 PM

2/3/2015 11:14:00 AM 17527

17519

17491

Analyst: WL

Analyst: SRM

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1

1

Anaryses	Kesun	NL	Quai	Units	DF Date Analyzed	Date
Analyses	Result	RI		Units	DF Date Analyzed	Batch
Lab ID: 1501A83-018	Matrix: SC	DIL		Received	d Date: 1/29/2015 12:00:00 PM	
Project: Sunray State Remediation				Collection	n Date: 1/27/2015 12:00:00 PM	
CLIENT: RMR Operating			C	lient Sam	ple ID: 9B	

45

ND

0.23

7.5

20

0.13

mg/Kg

mg/Kg

% C

Hall Environmental Analysis Laboratory, Inc.

Chloride

TOC

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	hod Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analyst	sis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 18
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 10 (
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	

Spike Recovery outside accepted recovery limits

S

Batch

17605

Analyst: LGT

Analyst: WL

Analyst: SRM

2/3/2015 12:16:07 PM 17532

2/3/2015 12:00:00 PM 17492

2/6/2015 9:33:00 AM

Project: Sunray State Remediation		Collection Date: 1/27/2015 12:00:00 PM
Lab ID: 1501A83-019	Matrix: SOIL	Received Date: 1/29/2015 12:00:00 PM

7.5

20

0.13

mg/Kg

mg/Kg

% C

ND

ND

0.35

Hall Environmental Analysis Laboratory, Inc.

EPA METHOD 300.0: ANIONS

EPA METHOD 418.1: TPH

Petroleum Hydrocarbons, TR

WALKLEY BLACK TOC/FOC/OM

Chloride

TOC

5

1

1

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected
	Е	Value above quantitation range	Н	Holding times
	J	Analyte detected below quantitation limits	ND	Not Detected a
	0	RSD is greater than RSDlimit	Р	Sample pH gre
	R	RPD outside accepted recovery limits	RL	Reporting Dete
	S	Spike Recovery outside accepted recovery limits		

- ted in the associated Method Blank
- for preparation or analysis exceeded
 - at the Reporting Limit Page 19 of 33
- reater than 2.
- tection Limit

Hall Environmental Analysis Labor	ratory, Inc. Date 1	Re
CLIENT: RMR Operating	Client Sample ID: 10B	

Project: Sunray State Remediation

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-020	Matrix: S	Received	Received Date: 1/29/2015 12:00:00 PM				
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT	
Chloride	ND	7.5	mg/Kg	5	2/3/2015 1:30:34 PM	17532	
EPA METHOD 418.1: TPH					Analys	t: WL	
Petroleum Hydrocarbons, TR	20	20	mg/Kg	1	2/3/2015 12:00:00 PM	17492	
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM	
тос	0.20	0.13	% C	1	2/6/2015 9:33:00 AM	17605	

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in
	Е	Value above quantitation range	Н	Holding times for
	J	Analyte detected below quantitation limits	ND	Not Detected at the
	0	RSD is greater than RSDlimit	Р	Sample pH greater
	R	RPD outside accepted recovery limits	RL	Reporting Detection

S Spike Recovery outside accepted recovery limits

- in the associated Method Blank
- r preparation or analysis exceeded
 - he Reporting Limit Page 20 of 33
- er than 2.
- tion Limit

Hall Environmental Analysis Labora	tory, Inc. Date Repor
CLIENT: RMR Operating	Client Sample ID: 11A
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-021	Matrix: S	Received	Received Date: 1/29/2015 12:00:00 PM				
Analyses	Result	RL Qu	al Units	DF Da	ate Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analys	t: LGT	
Chloride	34	1.5	mg/Kg	1 2/3	/3/2015 1:55:22 PM	17532	
EPA METHOD 418.1: TPH					Analys	t: WL	
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 2/3	/3/2015 12:00:00 PM	17492	
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM	
тос	0.23	0.13	% C	1 2/	6/2015 9:33:00 AM	17605	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associa
	Е	Value above quantitation range	Н	Holding times for preparation
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- iated Method Blank
- or analysis exceeded
 - g Limit Page 21 of 33
- nple pH gr
- RL Reporting Detection Limit

	Date Reported
CLIENT: RMR Operating	Client Sample ID: 11B
Project: Sunray State Remediation	Collection Date: 1/27/2015 12:00

Hall Environmental Analysis Laboratory. Inc.

0:00 PM Received Date: 1/29/2015 12:00:00 PM

Lab ID: 1501A83-022	Matrix: S	OIL	Received	Received Date: 1/29/2015 12:00:00 PM				
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS				Anal	yst: LGT			
Chloride	21	1.5	mg/Kg	1 2/3/2015 2:20:11 PN	17532			
EPA METHOD 418.1: TPH				Anal	yst: WL			
Petroleum Hydrocarbons, TR	230	20	mg/Kg	1 2/3/2015 12:00:00 P	M 17492			
WALKLEY BLACK TOC/FOC/OM				Anal	yst: SRM			
тос	0.60	0.13	% C	1 2/6/2015 9:33:00 AN	17605			

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected
	Е	Value above quantitation range	Н	Holding times fo
	J	Analyte detected below quantitation limits	ND	Not Detected at t
	0	RSD is greater than RSDlimit	Р	Sample pH great
	R	RPD outside accepted recovery limits	RL	Reporting Detect
	S	Spike Recovery outside accepted recovery limits		

- ed in the associated Method Blank
- for preparation or analysis exceeded
 - the Reporting Limit Page 22 of 33
- ater than 2.
- ction Limit

Page 23 of 33

		Date Reported: 2/9/20
CLIENT:	RMR Operating	Client Sample ID: 12A
Project:	Sunray State Remediation	Collection Date: 1/27/2015 12:00:00 PM

Hall Environmental Analysis Laboratory, Inc.

Collection Date: 1/27/2015 12:00:00 PM **Deceived Dete:** 1/20/2015 12:00:00 PM

Lab ID: 1501A83-023	Matrix: S	OIL	Received	Received Date: 1/29/2015 12:00:00 PM				
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch			
EPA METHOD 300.0: ANIONS				Analy	st: LGT			
Chloride	17	7.5	mg/Kg	5 2/3/2015 2:45:00 PM	17532			
EPA METHOD 418.1: TPH				Analy	st: WL			
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 2/3/2015 12:00:00 PM	/ 17492			
WALKLEY BLACK TOC/FOC/OM				Analy	st: SRM			
тос	0.18	0.13	% C	1 2/6/2015 9:33:00 AM	17605			

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank	
	Е	Value above quantitation range	Н	Holding times for preparation or analysis exce		
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 23 o	
			Р	Sample pH greater than 2.	1 age 25 (
			Reporting Detection Limit			
	S	Spike Recovery outside accepted recovery limits				

_

Hall Environmental Analysis Laboratory, Inc.	Date
CLIENT: RMR Operating	Client Sample ID: 12B

Collection Date: 1/27/2015 12:00:00 PM

Project: Sunray State Remediation	Sunray State RemediationCollection Date: 1/27/2015 12:00:0		27/2015 12:00:00 PM			
Lab ID: 1501A83-024	Matrix: S	OIL	Received	Date: 1/2	29/2015 12:00:00 PM	
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	16	7.5	mg/Kg	5	2/3/2015 3:34:38 PM	17532
EPA METHOD 418.1: TPH					Analys	t: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
тос	0.19	0.13	% C	1	2/6/2015 9:33:00 AM	17605

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Met	hod Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analy	sis exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 24
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 24
	D	DDD 11 1 1 1	BI	D I DI I III	

- ation or analysis exceeded
 - rting Limit Page 24 of 33

 - RL Reporting Detection Limit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S

	y ~		Date Reported.
CLIEN	F: RMR Operating		Client Sample ID: 13A
Project:	Sunray State Remediation		Collection Date: 1/27/2015 12:00:0
Lab ID:	1501A83-025	Matrix: SOIL	Received Date: 1/29/2015 12:00:0

Hall Environmental Analysis Laboratory, Inc.

:00 PM Received Date: 1/29/2015 12:00:00 PM

Lub ID: 15017105 025		JOIL	Receiveu	IVEN Date: 1729/2019 12:00:00 1 W			
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch	
EPA METHOD 300.0: ANIONS					Analy	st: LGT	
Chloride	7.7	1.5	mg/Kg	1	2/3/2015 3:59:28 PM	17532	
EPA METHOD 418.1: TPH					Analys	st: WL	
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	1 17492	
WALKLEY BLACK TOC/FOC/OM					Analys	st: SRM	
тос	0.19	0.13	% C	1	2/6/2015 9:33:00 AM	17605	

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in t
	Е	Value above quantitation range	Н	Holding times for pro
	J	Analyte detected below quantitation limits	ND	Not Detected at the I
	0	RSD is greater than RSDlimit	Р	Sample pH greater th

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- the associated Method Blank
- preparation or analysis exceeded
 - Reporting Limit Page 25 of 33
- than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: RMR Operating

Client Sample ID: 13B Collection Date: 1/27/2015 12:00:00 PM

Project:	Sunray State Remediation			Collection I	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-026		Matrix: S	OIL	Received l	Date: 1/2	29/2015 12:00:00 PM	
Analyses		Result	RL Qua	d Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: LGT
Chloride)	510	30	mg/Kg	20	2/3/2015 4:36:41 PM	17532
EPA ME	THOD 418.1: TPH					Analys	t: WL
Petroleu	um Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLE	EY BLACK TOC/FOC/OM					Analys	t: SRM
тос		0.13	0.13	% C	1	2/6/2015 9:33:00 AM	17605

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the assoc
	Е	Value above quantitation range	Н	Holding times for preparatio
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reportin
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- ociated Method Blank
- ion or analysis exceeded
 - ing Limit Page 26 of 33
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.	Date R
CLIENT: RMR Operating	Client Sample ID: 14A

Collection Date: 1/27/2015 12:00:00 PM

Project:	Sunray State Remediation			Collection 1	Date: 1/2	27/2015 12:00:00 PM	
Lab ID: 1501A83-027		Matrix: S	OIL	Received	Date: 1/2	29/2015 12:00:00 PM	
Analyses		Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA ME	THOD 300.0: ANIONS					Analys	t: LGT
Chloride	9	92	7.5	mg/Kg	5	2/3/2015 4:49:05 PM	17532
EPA ME	THOD 418.1: TPH					Analys	it: WL
Petroleu	um Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLE	EY BLACK TOC/FOC/OM					Analys	t: SRM
TOC		0.21	0.13	% C	1	2/6/2015 9:33:00 AM	17605

Qualifiers:	*	Value exceeds Maximum Contaminant Level.		Analyte detected in the associated Method
	Е	Value above quantitation range	Н	Holding times for preparation or analysi

- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- thod Blank
- sis exceeded
- ND Not Detected at the Reporting Limit Page 27 of 33
- Р Sample pH greater than 2.
- RL Reporting Detection Limit

Han Environmental Analysis Lat	Dol atoly, IIC. Date Rep
CLIENT: RMR Operating	Client Sample ID: 14B

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-028	Matrix: S	OIL	Received	Ν	
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Anal	yst: LGT
Chloride	64	7.5	mg/Kg	5 2/3/2015 5:13:54 PM	1 17532
EPA METHOD 418.1: TPH				Anal	yst: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 2/3/2015 12:00:00 P	M 17492
WALKLEY BLACK TOC/FOC/OM				Anal	yst: SRM
тос	0.17	0.13	% C	1 2/6/2015 9:33:00 AM	1 17605

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the
	Е	Value above quantitation range	Н	Holding times for prep
	J	Analyte detected below quantitation limits	ND	Not Detected at the Re
	0	RSD is greater than RSDlimit	Р	Sample pH greater that
	R	RPD outside accepted recovery limits	RL	Reporting Detection L

S Spike Recovery outside accepted recovery limits

he associated Method Blank eparation or analysis exceeded

- Reporting Limit Page 28 of 33
- nan 2.
- Limit

Hall Environmental Analysis Laboratory Inc

Project: Sunray State Remediation

Page 29 of 33

Hall Environmental Analysis Laborat	bory, Inc. Date Rep
CLIENT: RMR Operating	Client Sample ID: 15A
Project: Sunray State Remediation	Collection Date: 1/27/2015 1

Collection Date: 1/27/2015 12:00:00 PM

Lab ID: 1501A83-029	Matrix: SOIL Received Date: 1/29/2015 12:00:00 PM					
Analyses	Result	RL Qu	al Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analys	t: LGT
Chloride	24	1.5	mg/Kg	1	2/3/2015 6:03:32 PM	17532
EPA METHOD 418.1: TPH					Analys	t: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1	2/3/2015 12:00:00 PM	17492
WALKLEY BLACK TOC/FOC/OM					Analys	t: SRM
тос	0.23	0.13	% C	1	2/6/2015 9:33:00 AM	17605

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	В	Analyte detected in the associated Meth	od Blank
	Е	Value above quantitation range	Н	Holding times for preparation or analys	is exceeded
	J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit	Page 29
	0	RSD is greater than RSDlimit	Р	Sample pH greater than 2.	1 age 27 (
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit	
	S	Spike Recovery outside accepted recovery limits			

Hun En		Date Reported
CLIENT:	RMR Operating	Client Sample ID: 15B
Project:	Sunray State Remediation	Collection Date: 1/27/2015 12:00

Hall Environmental Analysis Laboratory, Inc.

0:00 PM Received Date: 1/29/2015 12:00:00 PM

Lab ID: 1501A83-030	Matrix: S	SOIL	Received	Date: 1/29/2015 12:00:00 PM	[
Analyses	Result	RL Qu	al Units	DF Date Analyzed	Batch
EPA METHOD 300.0: ANIONS				Analy	st: LGT
Chloride	25	1.5	mg/Kg	1 2/3/2015 6:28:20 PM	17532
EPA METHOD 418.1: TPH				Analys	st: WL
Petroleum Hydrocarbons, TR	ND	20	mg/Kg	1 2/3/2015 12:00:00 PM	1 17492
WALKLEY BLACK TOC/FOC/OM				Analys	st: SRM
тос	ND	0.13	% C	1 2/6/2015 9:33:00 AM	17605

O	*	Value and Manimum Cantania and Land	п	A
Qualifiers:		Value exceeds Maximum Contaminant Level.	В	Analyte detected in th
	Е	Value above quantitation range	Η	Holding times for pre-
	J	Analyte detected below quantitation limits	ND	Not Detected at the R
	0	RSD is greater than RSDlimit	Р	Sample pH greater that

- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits S
- the associated Method Blank
- reparation or analysis exceeded
 - Reporting Limit Page 30 of 33
- han 2.
- RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1501A83
	09-Feb-15

Client:	RMR Ope	erating									
Project:	Sunray St	ate Reme	diation								
Sample ID	1501A83-001AMS	Samp	Type: M	s	TestCode: EPA Method 300.0: Anions						
Client ID:	1A Batch ID: 17519			F	RunNo: 2	4061					
Prep Date:	2/2/2015	Analysis [Date: 2	/2/2015	S	SeqNo: 7	09173	Units: mg/#	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		61	7.5	15.00	52.09	60.1	71.6	122			S
Sample ID	1501A83-001AMSI) Samp	Туре: М	SD	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	1A	Batc	h ID: 17	/519	F	RunNo: 2	4061				
Prep Date:	2/2/2015	2/2/2015 Analysis Date: 2/2/2015 SeqNo: 709174				09174	Units: mg/Kg				
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		60	7.5	15.00	52.09	55.9	71.6	122	1.03	20	S
Sample ID	1501A83-002AMS	Samp	Type: M	S	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	1B	Batc	h ID: 17	/519	F	RunNo: 2	4061				
Prep Date:	2/2/2015	Analysis [Date: 2	/2/2015	5	SeqNo: 7	09177	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		38	7.5	15.00	23.21	100	71.6	122			
Sample ID	1501A83-002AMSI) Samp ⁻	Type: M	SD	Tes	tCode: E	PA Method	300.0: Anion	S		
Client ID:	1B	Batc	h ID: 17	/519	F	RunNo: 2	4061				
Prep Date:	2/2/2015	Analysis [Date: 2	/2/2015	S	SeqNo: 7	09178	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		36	7.5	15.00	23.21	87.0	71.6	122	5.27	20	
Sample ID	MB-17532	Samp	Туре: М	BLK	Tes	tCode: E	PA Method	300.0: Anion	IS		
Client ID:	PBS	Batc	h ID: 17	532	F	RunNo: 2	4080				
Prep Date:	2/3/2015	Analysis [Date: 2	/3/2015	S	SeqNo: 7	09800	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		ND	1.5								
Sample ID	LCS-17532	Samp	Type: L(cs	Tes	tCode: E	PA Method	300.0: Anion	IS		
Client ID:	LCSS	Batc	h ID: 17	532	F	RunNo: 2	4080				
Prep Date:	2/3/2015	Analysis [Date: 2	/3/2015	S	SeqNo: 7	09801	Units: mg/k	٢g		
Analyte		Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		14	1.5	15.00	0	92.5	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Р Sample pH greater than 2.
 - RL Reporting Detection Limit

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Client:	RMR Operating	
Project:	Sunray State Remediation	

Sample ID	1501A83-019AMS	SampType	e: MS	6	Test	tCode: El	PA Method	300.0: Anion	s		
Client ID:	10A	Batch ID	: 17	532	R	RunNo: 2	4080				
Prep Date:	2/3/2015	Analysis Date	: 2/	3/2015	S	SeqNo: 7	09812	Units: mg/K	g		
Analyte		Result F	QL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride		17	7.5	15.00	0	113	71.6	122			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit

QC SUMMARY REPORT Hall Environmental Analysis Laboratory, Inc.

WO#:	1501A83
	09-Feb-15

Client: RMR Op Project: Sunray S	perating State Remediation
Sample ID MB-17491 Client ID: PBS	SampType: MBLK TestCode: EPA Method 418.1: TPH Batch ID: 17491 RunNo: 24067
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 709367 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20
Sample ID LCS-17491	SampType: LCS TestCode: EPA Method 418.1: TPH
Client ID: LCSS	Batch ID: 17491 RunNo: 24067
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 709368 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100 20 100.0 0 101 86.7 126
Sample ID LCSD-17491	SampType: LCSD TestCode: EPA Method 418.1: TPH
Client ID: LCSS02	Batch ID: 17491 RunNo: 24067
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 709369 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100 20 100.0 0 101 86.7 126 0 20
Sample ID MB-17492	SampType: MBLK TestCode: EPA Method 418.1: TPH
Client ID: PBS	Batch ID: 17492 RunNo: 24069
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 710025 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	ND 20
Sample ID LCS-17492	SampType: LCS TestCode: EPA Method 418.1: TPH
Client ID: LCSS	Batch ID: 17492 RunNo: 24069
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 710026 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100 20 100.0 0 102 86.7 126
Sample ID LCSD-17492	SampType: LCSD TestCode: EPA Method 418.1: TPH
Client ID: LCSS02	Batch ID: 17492 RunNo: 24069
Prep Date: 1/30/2015	Analysis Date: 2/3/2015 SeqNo: 710027 Units: mg/Kg
Analyte	Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual
Petroleum Hydrocarbons, TR	100 20 100.0 0 101 86.7 126 1.32 20

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
 - RL Reporting Detection Limit

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Albuquerque, NM 8 505-345-3975 FAX: 505-345-	^{s NE} 7105 Samp 4107	ble Log-In Check List
der Number: 1501A83		RcptNo: 1
15		
12:00:00 PM	alin S.	ma
1:51:16 PM	Coline S	-
02/15	and y	
Yes	No 🗌	Not Present
Yes 🗹	No 🗌	Not Present
USPS		
Yes 🖌	No 🗌	
o6.0°C Yes □	No 🔽	
Yes 🔽	No 🗌	
d? Yes 🗹	No 🗆	
Yes 🗌	No 🗹	NA 🗆
Yes 🗌	No 🗆	No VOA Vials 🗹
Yes	No 🗹	# of preserved bottles checked
Yes 🗸	No 🗌	for pH: (<2 or >12 unless noted)
Yes 🖌	No 🗌	Adjusted?
Yes 🗹	No 🗌	
Yes 🔽	No 🗌	Checked by:
Yes 🗹	No 🗆	
	4901 Hawkin Albuquerque, NM 8 505-345-3975 FAX: 505-345- isite: www.hallenvironmental der Number: 1501A83 29 15 12:00.00 PM 1:51:16 PM 50 15 Yes ♥ USPS Yes ♥ 06.0°C Yes □ Approved Yes ♥ Yes ♥ d? Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥ Yes ♥	4901 Hawkins NE Albuquerque, NM 87105 Samp 505-345-3975 FAX: 505-345-4107 site: www.hallenvironmental.com der Number: 1501A83 □ □ □ 12:00.00 PM Clime S 12:00.00 PM Clime S 12:00.00 PM Clime S □ □ 0:2 15 Yes No 1:51:16 PM Clime S Ves No USPS No 0:6.0°C Yes No Yes No □ Yes No

as client notified of all	discrepancies with this order?		
Person Notified:	Jacob Holmes	Date 1/30/2015	
By Whom:	Celina Sessa	Via: 🗌 eMail 🗹 Phone 🗌 Fax 📋 In Person	
Regarding:	Incomplete COC	1	
Client Instructions:	Fill out rest of COC with samp	e names on jar, analyses same as all 3 previous jobsCS	s

17. Additional remarks:

18. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	20.1	Good	Yes			

		- 1	4901 Hawkins NE - Albuquerque, NM 87109		Analysis Request	(\r/C (\r/C)	05'*((SI 	SIM SIM	27.4 808 60N 022 (L' (L' (L' (L' (L')	P C C C C C C C C C C C C C C C C C C C	BE (G 0 of (C 0 of (A) (A) (A) (A) (A) (A) (A) (A	TH + XJTB TH + XJTB TT + XJTB TT + XJTB TTP TTP TTP TTP TTP TTP TTP TTP TTP T			2	7	2	7	<u>}</u>	7	7	2	2 2 7		Bemarks: 7. US OUBUNTS per Jacob		Line a real Mountain resource. Com	and have been also should be should be a should be a should be a should be should be a sho
ind Time:	ard 🗆 Rush	ame: sunray state	Remediation			anager: Danh V V-Jo	575 706 5569				Sample Temperature: 20.1°C	er Preservative HEAL No. 1# Type TSOFA83		-002	-003	trop-	-005	-006	100-	300-	602-	-010	10-	10-	Date Time	- man officer and	y: Date lime	
Turn-Around Time:		Project Name:		Project #:	60 - Car	Project Manager		;	Sampler:	On Ice:	Sample [:] T	Container Type and #	1A 402 -	- 1B	3 2A										Receive		Received by:	· · ·
Chain-of-Custody Record	Client: Red Mountain Reported	R. M. R. OPENANTSS	Mailing Address: 415 W. Wall Streed.		dreto @ Red Manytin resurces	9710 HOO	0840128	Level 4 (Full Validation)		er		Sample Request ID		ates a	19 and 26 inches 24	2B	3A	38	44	48	54	58	6A 01/30/15	68 C	elinquished by: 575440	2	shed by:	- - - - - - - - - - - - - - - - - - -
1-of-C	Mou	100	1 51H.st	1340 1	Ireto @	11		1		🖨 Other		Matrix	2011	<u>-</u>				 					 	\rightarrow	Relinquished by:	3	Relinquished by:	- -
Chair	int: Red	RMR	ling Addres	Sculte 1		axt	QAQC Package.	K Standard	Accreditation		D EDD (Type)	Date Time	-22-15 12:00p					-							e: Time:		e: 	
	Clie		Mai	5	P P	ema	0		Acc			ă	12							.					Date:		Date:	

2 ğ b If necessary, samples submitted to Half Environmental may be subcontracted to

U	hain-	of-Cu	Chain-of-Custody Record	Turn-Around Time:	Time:			- 1	ΗA	Ļ	Š	JIR	Ő	Σ	HALL ENVIRONMENTAL	AL	
Client:	RMR		Operatine	Standard	C Rush				AN	ANALYSIS	ISI		₹ B	N OR	LABORATORY	N N	
				Project Name:					M	v.halle	inviror		ll.con	-			
lailing	Mailing Address:			Sunray	State (Remediation	49	01 Hay	4901 Hawkins NE	I.	Albuqu	Albuquerque, NM 87109	MN	87109	•		
				Project #:			Tel.	i. 505	505-345-3975	975	Fax		45-4	107			2
Phone #:	Ť:									An	Analysis	Request	est	Í			_
email or	email or Fax#:	(575)	575)706-5589	Project Manager	ger:			(੦ਬ			(*0						
QA/QC Packa	QA/QC Package:)	Level 4 (Full Validation)	Danny	Velo			W / OE		(SMIS	S,4O4,			0910			
Accreditation	tation			Sampler:							^z ON						(N
	AP	Other		On Ice:	🗅 Yes	XNO - SA SA								1			or
🗆 EDD (Type)	(Type)			Sample Temperature:	perature:	20.1°C									da		<u>ه (۲</u>
Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL NO. 1501.AS3	TM + X∃T8 TEX + MT	15108 HqT	EDB (Methodather) TPH (Methodather)	rɛ8) a'HA9	M 8 AA2A) SnoinA	oiteeq 1808	OV) 80928	W92) 0728	0 12101		Air Bubbles
51/12	12:00	5011	134	4 02-1		-025			$\mathbf{\lambda}$		7						
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Date:	Time:	Relinquished by:	ed by:	Received by:	Sun		Remarks:	ŝ			S	er/20/15	ñ	<i>ber</i>	104	acob blmes	
Date:	Time:	Relinquished by:	ed by:	Received by:		Date Time											
	f necessary.	samples subr	If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	ontracted to other a	ccredited laborator	ies. This serves as notice of this	possibility.	Any sub	contracte	ed data v	iil be cle	arly notat	ed on t	he analy	tical repor	+-	