WASTE STREAM IDENTIFICATION AND CHARACTERIZATION

Name of Waste Stream *(i.e., Spent Isopropyl Alcohol)*	Ignitable firefighting water in Barge MSRC570
Generating Location	Deer Park, Texas
Description of Waste *(i.e., used isopropyl alcohol solution)*	Ignitable firefighting water in Barge MSRC570
Generating Process	Water generated from firefighting activities.
Date of Initial Generation	May 2019
Hazardous Waste Criteria	• Listed (F, K, P or U) Waste? ☒Yes ☐No If yes, list EPA waste codes: See Waste Codes listed below. • Characteristic Waste? ○ Ignitability ☒Yes ☐No (D001): Flash Point <60°C (140° F) ○ Corrosivity ☐Yes ☒No (D002): pH ≤ 2 or pH ≥ 12.5 ○ Reactivity ☐Yes ☒No (D003) ○ Toxicity ☒Yes ☐No (D004 – D043)
Waste Classification *(Hazardous, Controlled, or Non-hazardous Class 1, 2, or 3)*	Hazardous
Waste Codes *(include EPA and State waste codes, if applicable)*	9903 119 H; D001, D018, U239

Classification Rationale *(i.e., analytical testing, process knowledge, Safety Data Sheet [SDS])*

Firefighting water and product mixture was transferred from Tank 100-28 into Barge MSRC570 during emergency response. This firefighting water was mixed with gasoline constituents and xylene that spilled from storage tanks. The firefighting water, which are considered "contaminated media and debris" is a primary example of "remediation wastes" (e.g., they are not waste streams created during normal industrial or manufacturing operations). Therefore, the firefighting water is subject to the US Environmental Protection Agency's (EPA) contained-in policy (Policy). This media and debris may "contain" the unused product – gasoline constituents and xylene.

This firefighting waste stream does not contain F- or K- listed waste as found in 40 CFR §§261.31 – 32, and does not contain P-listed waste found it 40 CFR §261.33 - Discarded commercial chemical products, off-specification species, container residues, and spill residues thereof.

Gasoline constituents contains various chemical components that are on the U list; however, since these chemicals (e.g., benzene, toluene and xylene) are not sole active ingredients, they are not a listed waste per 40 CFR §261.33.

The F003 listing for xylene does not apply to the unused product since it is not a spent solvent. Xylene does appear on the U list (U239) contained in 40 CFR §261.33. However, it is listed with (I) code meaning it was only listed for "ignitability". Per the Policy, the contaminated media that contain a waste listed solely for the characteristics of ignitability, corrosivity, and/or reactivity, would no longer be managed as a hazardous waste when no longer exhibiting a characteristic. However, because the firefighting water is ignitable per 40 CFR §261.21, it is considered a hazardous waste due to xylene content; therefore, U239 applies.

Based on analytical data, the firefighting water in Barge MSRC570 is also characteristically hazardous for benzene (D018) per 40 CFR §§261.24 but it is not corrosive or reactive per 40 CFR §§261.22 - 23.	
DOT Shipping Description	RQ[i], UN1992, Flammable Liquids, Toxic, n.o.s (contains benzene), Class 3, PGIII

See analytical data : WW-20190426-MSRC570-T4S-M-001; WW-20190426-MSRC570-T4P-B-001; and WW-20190424-MSRC570-T4S-T-00

[i] If the quantity in a single container exceeds 10 pounds, then a reportable quantity of D018 waste is being shipped and therefore "RQ" must be added at the beginning of the shipping description. If there is no container being shipped that exceeds 10 pounds, then do not include "RQ" in the shipping description.

Client: Cardno
Project: Deer Park Fire T48
Work Order: HS19041420

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS19041420-01	WW-20190424-MSRC570-T4S-T-001	Water		24-Apr-2019 14:15	25-Apr-2019 11:50	☐

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire T48	WorkOrder:HS19041420	
Sample ID:	WW-20190424-MSRC570-T4S-T-001	Lab ID:HS19041420-01	
Collection Date:	24-Apr-2019 14:15	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES	**Method:SW1311/8260B**		Leache:SW1311 / 25-Apr-2019		Prep:SW1311 / 25-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.050	0.50	mg/L	100	26-Apr-2019 06:23
1,2-Dichloroethane	U		0.050	0.50	mg/L	100	26-Apr-2019 06:23
1,4-Dichlorobenzene	U		0.060	0.50	mg/L	100	26-Apr-2019 06:23
2-Butanone	**0.51**	J	**0.10**	**1.0**	**mg/L**	100	26-Apr-2019 06:23
Benzene	**630**		**3.0**	**25**	**mg/L**	5000	26-Apr-2019 20:59
Carbon tetrachloride	U		0.060	0.50	mg/L	100	26-Apr-2019 06:23
Chlorobenzene	U		0.040	0.50	mg/L	100	26-Apr-2019 06:23
Chloroform	U		0.060	0.50	mg/L	100	26-Apr-2019 06:23
Tetrachloroethene	U		0.060	0.50	mg/L	100	26-Apr-2019 06:23
Trichloroethene	U		0.050	0.50	mg/L	100	26-Apr-2019 06:23
Vinyl chloride	U		0.040	0.20	mg/L	100	26-Apr-2019 06:23
Surr: 1,2-Dichloroethane-d4	*96.0*			*70-126*	*%REC*	*100*	*26-Apr-2019 06:23*
Surr: 1,2-Dichloroethane-d4	*96.1*			*70-126*	*%REC*	*5000*	*26-Apr-2019 20:59*
Surr: 4-Bromofluorobenzene	*97.3*			*82-124*	*%REC*	*100*	*26-Apr-2019 06:23*
Surr: 4-Bromofluorobenzene	*93.5*			*82-124*	*%REC*	*5000*	*26-Apr-2019 20:59*
Surr: Dibromofluoromethane	*87.3*			*77-123*	*%REC*	*100*	*26-Apr-2019 06:23*
Surr: Dibromofluoromethane	*97.4*			*77-123*	*%REC*	*5000*	*26-Apr-2019 20:59*
Surr: Toluene-d8	*98.7*			*82-127*	*%REC*	*100*	*26-Apr-2019 06:23*
Surr: Toluene-d8	*95.7*			*82-127*	*%REC*	*5000*	*26-Apr-2019 20:59*
TCLP SEMIVOLATILES	**Method:SW1311/8270**		Leache:SW1311 / 25-Apr-2019		Prep:SW3510 / 25-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.022	0.12	mg/L	20	25-Apr-2019 21:41
2,4,6-Trichlorophenol	U		0.035	0.12	mg/L	20	25-Apr-2019 21:41
2,4-Dinitrotoluene	U		0.025	0.12	mg/L	20	25-Apr-2019 21:41
Cresols, Total	**0.12**	J	**0.049**	**0.37**	**mg/L**	20	25-Apr-2019 21:41
Hexachlorobenzene	U		0.027	0.12	mg/L	20	25-Apr-2019 21:41
Hexachlorobutadiene	U		0.027	0.12	mg/L	20	25-Apr-2019 21:41
Hexachloroethane	U		0.025	0.12	mg/L	20	25-Apr-2019 21:41
Nitrobenzene	U		0.020	0.12	mg/L	20	25-Apr-2019 21:41
Pentachlorophenol	U		0.040	0.12	mg/L	20	25-Apr-2019 21:41
Pyridine	**0.056**	J	**0.049**	**0.12**	**mg/L**	20	25-Apr-2019 21:41
Surr: 2,4,6-Tribromophenol	*53.0*	*J*		*39-153*	*%REC*	*20*	*25-Apr-2019 21:41*
Surr: 2-Fluorobiphenyl	*69.3*	*J*		*40-147*	*%REC*	*20*	*25-Apr-2019 21:41*
Surr: 2-Fluorophenol	*73.9*	*J*		*21-110*	*%REC*	*20*	*25-Apr-2019 21:41*
Surr: 4-Terphenyl-d14	*81.8*	*J*		*39-141*	*%REC*	*20*	*25-Apr-2019 21:41*
Surr: Nitrobenzene-d5	*105*			*37-140*	*%REC*	*20*	*25-Apr-2019 21:41*
Surr: Phenol-d6	*57.7*	*J*		*11-110*	*%REC*	*20*	*25-Apr-2019 21:41*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire T48	WorkOrder:HS19041420	
Sample ID:	WW-20190424-MSRC570-T4S-T-001	Lab ID:HS19041420-01	
Collection Date:	24-Apr-2019 14:15	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 25-Apr-2019	Prep:SW3510C / 26-Apr-2019		Analyst: JBA
Chlordane	U		0.00022	0.00056	mg/L	1	26-Apr-2019 20:39
Endrin	**0.00012**		**0.000034**	**0.00011**	**mg/L**	1	26-Apr-2019 20:39
gamma-BHC	U		0.000011	0.000056	mg/L	1	26-Apr-2019 20:39
Heptachlor	U		0.000011	0.000056	mg/L	1	26-Apr-2019 20:39
Heptachlor epoxide	U		0.000011	0.000056	mg/L	1	26-Apr-2019 20:39
Methoxychlor	U		0.00017	0.00056	mg/L	1	26-Apr-2019 20:39
Toxaphene	U		0.00022	0.00056	mg/L	1	26-Apr-2019 20:39
Surr: Decachlorobiphenyl	*105*			*30-150*	*%REC*	*1*	*26-Apr-2019 20:39*
Surr: Tetrachloro-m-xylene	*82.6*			*30-150*	*%REC*	*1*	*26-Apr-2019 20:39*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 25-Apr-2019	Prep:SW8151 / 25-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	**0.000082**	JP	**0.000061**	**0.00024**	**mg/L**	1	26-Apr-2019 17:25
2,4-D	**0.00054**	P	**0.000073**	**0.00024**	**mg/L**	1	26-Apr-2019 17:25
Surr: DCAA	*84.8*			*40-140*	*%REC*	*1*	*26-Apr-2019 17:25*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 25-Apr-2019	Prep:SW3010A / 26-Apr-2019		Analyst: JC
Antimony	U		0.00400	0.0500	mg/L	1	26-Apr-2019 17:30
Arsenic	**0.00816**	J	**0.00400**	**0.0500**	**mg/L**	1	26-Apr-2019 17:30
Barium	**0.0896**	J	**0.0190**	**0.200**	**mg/L**	1	26-Apr-2019 17:30
Beryllium	U		0.00200	0.0200	mg/L	1	26-Apr-2019 17:30
Cadmium	U		0.00200	0.0500	mg/L	1	26-Apr-2019 17:30
Chromium	U		0.00400	0.0500	mg/L	1	26-Apr-2019 17:30
Lead	U		0.00600	0.0500	mg/L	1	26-Apr-2019 17:30
Nickel	**0.0190**	J	**0.00600**	**0.0500**	**mg/L**	1	26-Apr-2019 17:30
Selenium	U		0.0110	0.0500	mg/L	1	26-Apr-2019 17:30
Silver	U		0.00200	0.0500	mg/L	1	26-Apr-2019 17:30
Vanadium	U		0.00600	0.0500	mg/L	1	26-Apr-2019 17:30
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 25-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 17:45
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	**109**		**70.0**	**70.0**	**°F**	1	29-Apr-2019 15:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	26-Apr-2019 16:30
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	26-Apr-2019 14:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**6.08**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**22.6**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS

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Chain of Custody Form

Page 1 of 1

COC ID: 143976

ALS Project Manager: | ALS Work Order #:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Deer Park Fire	A	RCI
Work Order		Project Number		B	TCLP Pesticides
Company Name	Cardno	Bill To Company	ITC	C	TCLP Herbicides
Send Report To	Art Saunders	Invoice Attn		D	TCLP Metals - TX12
Address	art.saunders@cardno.com	Address	1030 Ethyl Rd Command Center	E	TCLP VOCs
				F	TCLP SVOCs
City/State/Zip		City/State/Zip	Pasadena TX	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address	lori.stone@cardno.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-20190424-MSRC570-T4S-T-001	4/24/19	1415 1445	water	8	9	X	X	X	X	X	X					
2																	
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

HS19041420
Cardno
Deer Park Fire

Sampler(s) Please Print & Sign: Valerie Phipps

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Valerie Phipps	4/25/19	1030	Lori Stone	4/25/19	11:30
Lori Stone	4/25/19	1150	J. Malcom		

Logged by (Laboratory): Date: Time: Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	UC
Blue	1.3
	1.225
	CF 0.0

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

May 01, 2019

Lori Stone
Cardno
1005 W. Washburn Pl
Saginaw, MI 48602

Work Order: **HS19041558**

Laboratory Results for: **Deer Park Fire K29120 MSRC570**

Dear Lori,

ALS Environmental received 5 sample(s) on Apr 26, 2019 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: JUMOKE.LAWAL
Dane J. Wacasey

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Work Order: HS19041558

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS19041558-01	WW-20190426-K29120-T2P-T-001	Water		26-Apr-2019 11:10	26-Apr-2019 17:25	☐
HS19041558-02	WW-20190426-K29120-T2P-M-001	Water		26-Apr-2019 11:45	26-Apr-2019 17:25	☐
HS19041558-03	WW-20190426-K29120-T2P-B-001	Water		26-Apr-2019 12:05	26-Apr-2019 17:25	☐
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	Water		26-Apr-2019 12:45	26-Apr-2019 17:25	☐
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	Water		26-Apr-2019 13:05	26-Apr-2019 17:25	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno **CASE NARRATIVE**
Project: Deer Park Fire K29120 MSRC570
Work Order: HS19041558

Work Order Comments

- Sample received outside method holding time for pH. pH is an immediate test. Sample results are flagged with an "H" qualifier.

  The temperature at the time of pH is reported. Please note that all pH results are already normalized to a temperature of 25 °C.

ECD Organics by Method SW1311/8150

Batch ID: 140312

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

ECD Organics by Method SW1311/8081A

Batch ID: 140331

Sample ID: LCSD-140331

- LCS/LCSD RPD exceeded the laboratory acceptance limits. Individual recoveries met acceptance criteria.

GCMS Semivolatiles by Method SW1311/8270

Batch ID: 140283

Sample ID: WW-20190426-K29120-T2P-B-001 (HS19041558-03)

- One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

Sample ID: WW-20190426-K29120-T2P-T-001 (HS19041558-01)

- The GCMS semi-volatile extract of this sample was run at a dilution due to a high level of matrix interference.

Sample ID: WW-20190426-MSRC570-T4S-M-001 (HS19041558-04)

- One or more of the GCMS semi-volatile internal standards were recovered at <50%. The sample was reanalyzed with similar results indicating a sample matrix interference.

GCMS Volatiles by Method SW1311/8260B

Batch ID: 140290

- Lowest practical dilution for job HS19041558-01-05 due to matrix.

Sample ID: HS19041371-01MS

- MS is for an unrelated sample

Metals by Method SW7470

Batch ID: 140323

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

Metals by Method SW1311/6020

Batch ID: 140316

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Work Order: HS19041558

CASE NARRATIVE

WetChemistry by Method SW1010

Batch ID: R337662

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.4.2

Batch ID: R337563

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW7.3.3.2

Batch ID: R337561

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method SW9040C

Batch ID: R337438

- The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire K29120 MSRC570	WorkOrder:HS19041558	
Sample ID:	WW-20190426-K29120-T2P-T-001	Lab ID:HS19041558-01	
Collection Date:	26-Apr-2019 11:10	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		**Method:SW1311/8260B**	Leache:SW1311 / 29-Apr-2019		Prep:SW1311 / 29-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:01
1,2-Dichloroethane	U		0.25	2.5	mg/L	500	30-Apr-2019 11:01
1,4-Dichlorobenzene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:01
2-Butanone	U		0.50	5.0	mg/L	500	30-Apr-2019 11:01
Benzene	**28**		**0.30**	**2.5**	**mg/L**	500	30-Apr-2019 11:01
Carbon tetrachloride	U		0.30	2.5	mg/L	500	30-Apr-2019 11:01
Chlorobenzene	U		0.20	2.5	mg/L	500	30-Apr-2019 11:01
Chloroform	U		0.30	2.5	mg/L	500	30-Apr-2019 11:01
Tetrachloroethene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:01
Trichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:01
Vinyl chloride	U		0.20	1.0	mg/L	500	30-Apr-2019 11:01
Surr: 1,2-Dichloroethane-d4	*84.4*			*70-126*	*%REC*	*500*	*30-Apr-2019 11:01*
Surr: 4-Bromofluorobenzene	*101*			*82-124*	*%REC*	*500*	*30-Apr-2019 11:01*
Surr: Dibromofluoromethane	*85.4*			*77-123*	*%REC*	*500*	*30-Apr-2019 11:01*
Surr: Toluene-d8	*96.9*			*82-127*	*%REC*	*500*	*30-Apr-2019 11:01*
TCLP SEMIVOLATILES		**Method:SW1311/8270**	Leache:SW1311 / 29-Apr-2019		Prep:SW3510 / 29-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.022	0.12	mg/L	20	29-Apr-2019 20:25
2,4,6-Trichlorophenol	U		0.034	0.12	mg/L	20	29-Apr-2019 20:25
2,4-Dinitrotoluene	U		0.024	0.12	mg/L	20	29-Apr-2019 20:25
Cresols, Total	**0.095**	J	**0.049**	**0.37**	**mg/L**	20	29-Apr-2019 20:25
Hexachlorobenzene	U		0.027	0.12	mg/L	20	29-Apr-2019 20:25
Hexachlorobutadiene	U		0.027	0.12	mg/L	20	29-Apr-2019 20:25
Hexachloroethane	U		0.024	0.12	mg/L	20	29-Apr-2019 20:25
Nitrobenzene	U		0.020	0.12	mg/L	20	29-Apr-2019 20:25
Pentachlorophenol	U		0.039	0.12	mg/L	20	29-Apr-2019 20:25
Pyridine	U		0.049	0.12	mg/L	20	29-Apr-2019 20:25
Surr: 2,4,6-Tribromophenol	*45.8*	*J*		*39-153*	*%REC*	*20*	*29-Apr-2019 20:25*
Surr: 2-Fluorobiphenyl	*61.6*	*J*		*40-147*	*%REC*	*20*	*29-Apr-2019 20:25*
Surr: 2-Fluorophenol	*47.6*	*J*		*21-110*	*%REC*	*20*	*29-Apr-2019 20:25*
Surr: 4-Terphenyl-d14	*72.8*	*J*		*39-141*	*%REC*	*20*	*29-Apr-2019 20:25*
Surr: Nitrobenzene-d5	*67.2*	*J*		*37-140*	*%REC*	*20*	*29-Apr-2019 20:25*
Surr: Phenol-d6	*65.4*	*J*		*11-110*	*%REC*	*20*	*29-Apr-2019 20:25*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Sample ID: WW-20190426-K29120-T2P-T-001
Collection Date: 26-Apr-2019 11:10

ANALYTICAL REPORT
WorkOrder:HS19041558
Lab ID:HS19041558-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 29-Apr-2019	Prep:SW3510C / 30-Apr-2019		Analyst: JBA
Chlordane	U		0.00025	0.00062	mg/L	1	01-May-2019 00:08
Endrin	**0.00021**		**0.000037**	**0.00012**	**mg/L**	1	01-May-2019 00:08
gamma-BHC	U		0.000012	0.000062	mg/L	1	01-May-2019 00:08
Heptachlor	**0.00021**		**0.000012**	**0.000062**	**mg/L**	1	01-May-2019 00:08
Heptachlor epoxide	**0.000062**	P	**0.000012**	**0.000062**	**mg/L**	1	01-May-2019 00:08
Methoxychlor	U		0.00019	0.00062	mg/L	1	01-May-2019 00:08
Toxaphene	U		0.00025	0.00062	mg/L	1	01-May-2019 00:08
Surr: Decachlorobiphenyl	*66.4*			*30-150*	*%REC*	*1*	*01-May-2019 00:08*
Surr: Tetrachloro-m-xylene	*81.4*			*30-150*	*%REC*	*1*	*01-May-2019 00:08*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 29-Apr-2019	Prep:SW8151 / 29-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000059	0.00024	mg/L	1	30-Apr-2019 20:01
2,4-D	**0.00050**	P	**0.000071**	**0.00024**	**mg/L**	1	30-Apr-2019 20:01
Surr: DCAA	*123*			*40-140*	*%REC*	*1*	*30-Apr-2019 20:01*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 29-Apr-2019	Prep:SW3010A / 29-Apr-2019		Analyst: JC
Antimony	**0.00463**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:27
Arsenic	**0.0226**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:27
Barium	**0.137**	J	**0.0190**	**0.200**	**mg/L**	1	30-Apr-2019 01:27
Beryllium	U		0.00200	0.0200	mg/L	1	30-Apr-2019 01:27
Cadmium	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:27
Chromium	**0.00568**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:27
Lead	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:27
Nickel	**0.0321**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:27
Selenium	**0.0144**	J	**0.0110**	**0.0500**	**mg/L**	1	30-Apr-2019 01:27
Silver	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:27
Vanadium	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:27
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 29-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 17:58
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	01-May-2019 14:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	30-Apr-2019 14:45
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	30-Apr-2019 13:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**5.83**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**22.6**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire K29120 MSRC570	WorkOrder:HS19041558	
Sample ID:	WW-20190426-K29120-T2P-M-001	Lab ID:HS19041558-02	
Collection Date:	26-Apr-2019 11:45	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		**Method:SW1311/8260B**	Leache:SW1311 / 29-Apr-2019		Prep:SW1311 / 29-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:25
1,2-Dichloroethane	U		0.25	2.5	mg/L	500	30-Apr-2019 11:25
1,4-Dichlorobenzene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:25
2-Butanone	U		0.50	5.0	mg/L	500	30-Apr-2019 11:25
Benzene	**39**		**0.30**	**2.5**	**mg/L**	500	30-Apr-2019 11:25
Carbon tetrachloride	U		0.30	2.5	mg/L	500	30-Apr-2019 11:25
Chlorobenzene	U		0.20	2.5	mg/L	500	30-Apr-2019 11:25
Chloroform	U		0.30	2.5	mg/L	500	30-Apr-2019 11:25
Tetrachloroethene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:25
Trichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:25
Vinyl chloride	U		0.20	1.0	mg/L	500	30-Apr-2019 11:25
Surr: 1,2-Dichloroethane-d4	*85.5*			*70-126*	*%REC*	*500*	*30-Apr-2019 11:25*
Surr: 4-Bromofluorobenzene	*101*			*82-124*	*%REC*	*500*	*30-Apr-2019 11:25*
Surr: Dibromofluoromethane	*84.4*			*77-123*	*%REC*	*500*	*30-Apr-2019 11:25*
Surr: Toluene-d8	*96.7*			*82-127*	*%REC*	*500*	*30-Apr-2019 11:25*
TCLP SEMIVOLATILES		**Method:SW1311/8270**	Leache:SW1311 / 29-Apr-2019		Prep:SW3510 / 29-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.022	0.12	mg/L	20	29-Apr-2019 20:46
2,4,6-Trichlorophenol	U		0.034	0.12	mg/L	20	29-Apr-2019 20:46
2,4-Dinitrotoluene	U		0.024	0.12	mg/L	20	29-Apr-2019 20:46
Cresols, Total	**0.11**	J	**0.048**	**0.36**	**mg/L**	20	29-Apr-2019 20:46
Hexachlorobenzene	U		0.027	0.12	mg/L	20	29-Apr-2019 20:46
Hexachlorobutadiene	U		0.027	0.12	mg/L	20	29-Apr-2019 20:46
Hexachloroethane	U		0.024	0.12	mg/L	20	29-Apr-2019 20:46
Nitrobenzene	U		0.019	0.12	mg/L	20	29-Apr-2019 20:46
Pentachlorophenol	U		0.039	0.12	mg/L	20	29-Apr-2019 20:46
Pyridine	U		0.048	0.12	mg/L	20	29-Apr-2019 20:46
Surr: 2,4,6-Tribromophenol	*55.9*	*J*		*39-153*	*%REC*	*20*	*29-Apr-2019 20:46*
Surr: 2-Fluorobiphenyl	*77.5*	*J*		*40-147*	*%REC*	*20*	*29-Apr-2019 20:46*
Surr: 2-Fluorophenol	*70.7*	*J*		*21-110*	*%REC*	*20*	*29-Apr-2019 20:46*
Surr: 4-Terphenyl-d14	*91.1*	*J*		*39-141*	*%REC*	*20*	*29-Apr-2019 20:46*
Surr: Nitrobenzene-d5	*90.8*	*J*		*37-140*	*%REC*	*20*	*29-Apr-2019 20:46*
Surr: Phenol-d6	*92.8*	*J*		*11-110*	*%REC*	*20*	*29-Apr-2019 20:46*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Sample ID: WW-20190426-K29120-T2P-M-001
Collection Date: 26-Apr-2019 11:45

ANALYTICAL REPORT
WorkOrder:HS19041558
Lab ID:HS19041558-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 29-Apr-2019	Prep:SW3510C / 30-Apr-2019		Analyst: JBA
Chlordane	U		0.00025	0.00063	mg/L	1	01-May-2019 00:29
Endrin	**0.00021**		**0.000038**	**0.00013**	**mg/L**	1	01-May-2019 00:29
gamma-BHC	**0.000095**	P	**0.000013**	**0.000063**	**mg/L**	1	01-May-2019 00:29
Heptachlor	**0.000074**	P	**0.000013**	**0.000063**	**mg/L**	1	01-May-2019 00:29
Heptachlor epoxide	**0.000013**	JP	**0.000013**	**0.000063**	**mg/L**	1	01-May-2019 00:29
Methoxychlor	U		0.00019	0.00063	mg/L	1	01-May-2019 00:29
Toxaphene	U		0.00025	0.00063	mg/L	1	01-May-2019 00:29
Surr: Decachlorobiphenyl	*68.3*			*30-150*	*%REC*	*1*	*01-May-2019 00:29*
Surr: Tetrachloro-m-xylene	*99.1*			*30-150*	*%REC*	*1*	*01-May-2019 00:29*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 29-Apr-2019	Prep:SW8151 / 29-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	**0.000066**	JP	**0.000061**	**0.00024**	**mg/L**	1	30-Apr-2019 20:20
2,4-D	**0.0011**	P	**0.000073**	**0.00024**	**mg/L**	1	30-Apr-2019 20:20
Surr: DCAA	*128*			*40-140*	*%REC*	*1*	*30-Apr-2019 20:20*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 29-Apr-2019	Prep:SW3010A / 29-Apr-2019		Analyst: JC
Antimony	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:30
Arsenic	**0.0224**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:30
Barium	**0.129**	J	**0.0190**	**0.200**	**mg/L**	1	30-Apr-2019 01:30
Beryllium	U		0.00200	0.0200	mg/L	1	30-Apr-2019 01:30
Cadmium	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:30
Chromium	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:30
Lead	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:30
Nickel	**0.0281**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:30
Selenium	U		0.0110	0.0500	mg/L	1	30-Apr-2019 01:30
Silver	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:30
Vanadium	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:30
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 29-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 18:00
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	01-May-2019 14:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	30-Apr-2019 14:45
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	30-Apr-2019 13:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**5.95**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**21.7**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire K29120 MSRC570	WorkOrder:HS19041558	
Sample ID:	WW-20190426-K29120-T2P-B-001	Lab ID:HS19041558-03	
Collection Date:	26-Apr-2019 12:05	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		**Method:SW1311/8260B**	Leache:SW1311 / 29-Apr-2019		Prep:SW1311 / 29-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:49
1,2-Dichloroethane	U		0.25	2.5	mg/L	500	30-Apr-2019 11:49
1,4-Dichlorobenzene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:49
2-Butanone	U		0.50	5.0	mg/L	500	30-Apr-2019 11:49
Benzene	**30**		**0.30**	**2.5**	**mg/L**	500	30-Apr-2019 11:49
Carbon tetrachloride	U		0.30	2.5	mg/L	500	30-Apr-2019 11:49
Chlorobenzene	U		0.20	2.5	mg/L	500	30-Apr-2019 11:49
Chloroform	U		0.30	2.5	mg/L	500	30-Apr-2019 11:49
Tetrachloroethene	U		0.30	2.5	mg/L	500	30-Apr-2019 11:49
Trichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 11:49
Vinyl chloride	U		0.20	1.0	mg/L	500	30-Apr-2019 11:49
Surr: 1,2-Dichloroethane-d4	*84.3*			*70-126*	*%REC*	*500*	*30-Apr-2019 11:49*
Surr: 4-Bromofluorobenzene	*103*			*82-124*	*%REC*	*500*	*30-Apr-2019 11:49*
Surr: Dibromofluoromethane	*84.1*			*77-123*	*%REC*	*500*	*30-Apr-2019 11:49*
Surr: Toluene-d8	*94.3*			*82-127*	*%REC*	*500*	*30-Apr-2019 11:49*
TCLP SEMIVOLATILES		**Method:SW1311/8270**	Leache:SW1311 / 29-Apr-2019		Prep:SW3510 / 29-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.021	0.12	mg/L	20	29-Apr-2019 21:07
2,4,6-Trichlorophenol	U		0.033	0.12	mg/L	20	29-Apr-2019 21:07
2,4-Dinitrotoluene	U		0.024	0.12	mg/L	20	29-Apr-2019 21:07
Cresols, Total	**0.12**	J	**0.047**	**0.35**	**mg/L**	20	29-Apr-2019 21:07
Hexachlorobenzene	U		0.026	0.12	mg/L	20	29-Apr-2019 21:07
Hexachlorobutadiene	U		0.026	0.12	mg/L	20	29-Apr-2019 21:07
Hexachloroethane	U		0.024	0.12	mg/L	20	29-Apr-2019 21:07
Nitrobenzene	U		0.019	0.12	mg/L	20	29-Apr-2019 21:07
Pentachlorophenol	U		0.038	0.12	mg/L	20	29-Apr-2019 21:07
Pyridine	U		0.047	0.12	mg/L	20	29-Apr-2019 21:07
Surr: 2,4,6-Tribromophenol	*62.3*	*J*		*39-153*	*%REC*	*20*	*29-Apr-2019 21:07*
Surr: 2-Fluorobiphenyl	*82.7*	*J*		*40-147*	*%REC*	*20*	*29-Apr-2019 21:07*
Surr: 2-Fluorophenol	*76.1*	*J*		*21-110*	*%REC*	*20*	*29-Apr-2019 21:07*
Surr: 4-Terphenyl-d14	*100*			*39-141*	*%REC*	*20*	*29-Apr-2019 21:07*
Surr: Nitrobenzene-d5	*89.4*	*J*		*37-140*	*%REC*	*20*	*29-Apr-2019 21:07*
Surr: Phenol-d6	*82.4*	*J*		*11-110*	*%REC*	*20*	*29-Apr-2019 21:07*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire K29120 MSRC570	WorkOrder:HS19041558	
Sample ID:	WW-20190426-K29120-T2P-B-001	Lab ID:HS19041558-03	
Collection Date:	26-Apr-2019 12:05	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 29-Apr-2019	Prep:SW3510C / 30-Apr-2019		Analyst: JBA
Chlordane	U		0.00024	0.00061	mg/L	1	01-May-2019 00:50
Endrin	**0.00013**		**0.000037**	**0.00012**	**mg/L**	1	01-May-2019 00:50
gamma-BHC	**0.00010**	P	**0.000012**	**0.000061**	**mg/L**	1	01-May-2019 00:50
Heptachlor	**0.000043**	JP	**0.000012**	**0.000061**	**mg/L**	1	01-May-2019 00:50
Heptachlor epoxide	**0.000020**	JP	**0.000012**	**0.000061**	**mg/L**	1	01-May-2019 00:50
Methoxychlor	U		0.00018	0.00061	mg/L	1	01-May-2019 00:50
Toxaphene	U		0.00024	0.00061	mg/L	1	01-May-2019 00:50
Surr: Decachlorobiphenyl	*75.6*			*30-150*	*%REC*	*1*	*01-May-2019 00:50*
Surr: Tetrachloro-m-xylene	*107*			*30-150*	*%REC*	*1*	*01-May-2019 00:50*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 29-Apr-2019	Prep:SW8151 / 29-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	**0.000071**	JP	**0.000058**	**0.00023**	**mg/L**	1	30-Apr-2019 20:38
2,4-D	**0.00099**	P	**0.000070**	**0.00023**	**mg/L**	1	30-Apr-2019 20:38
Surr: DCAA	*112*			*40-140*	*%REC*	*1*	*30-Apr-2019 20:38*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 29-Apr-2019	Prep:SW3010A / 29-Apr-2019		Analyst: JC
Antimony	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:32
Arsenic	**0.0222**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:32
Barium	**0.141**	J	**0.0190**	**0.200**	**mg/L**	1	30-Apr-2019 01:32
Beryllium	U		0.00200	0.0200	mg/L	1	30-Apr-2019 01:32
Cadmium	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:32
Chromium	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:32
Lead	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:32
Nickel	**0.0319**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:32
Selenium	U		0.0110	0.0500	mg/L	1	30-Apr-2019 01:32
Silver	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:32
Vanadium	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:32
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 29-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 18:02
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	01-May-2019 14:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	30-Apr-2019 14:45
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	30-Apr-2019 13:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**5.92**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**21.7**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Sample ID: WW-20190426-MSRC570-T4S-M-001
Collection Date: 26-Apr-2019 12:45

ANALYTICAL REPORT
WorkOrder:HS19041558
Lab ID:HS19041558-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		**Method:SW1311/8260B**	Leache:SW1311 / 29-Apr-2019		Prep:SW1311 / 29-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 12:13
1,2-Dichloroethane	U		0.25	2.5	mg/L	500	30-Apr-2019 12:13
1,4-Dichlorobenzene	U		0.30	2.5	mg/L	500	30-Apr-2019 12:13
2-Butanone	U		0.50	5.0	mg/L	500	30-Apr-2019 12:13
Benzene	**480**		**3.0**	**25**	**mg/L**	5000	01-May-2019 02:59
Carbon tetrachloride	U		0.30	2.5	mg/L	500	30-Apr-2019 12:13
Chlorobenzene	U		0.20	2.5	mg/L	500	30-Apr-2019 12:13
Chloroform	U		0.30	2.5	mg/L	500	30-Apr-2019 12:13
Tetrachloroethene	U		0.30	2.5	mg/L	500	30-Apr-2019 12:13
Trichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 12:13
Vinyl chloride	U		0.20	1.0	mg/L	500	30-Apr-2019 12:13
Surr: 1,2-Dichloroethane-d4	*84.3*			*70-126*	*%REC*	*500*	*30-Apr-2019 12:13*
Surr: 1,2-Dichloroethane-d4	*100*			*70-126*	*%REC*	*5000*	*01-May-2019 02:59*
Surr: 4-Bromofluorobenzene	*97.8*			*82-124*	*%REC*	*5000*	*01-May-2019 02:59*
Surr: 4-Bromofluorobenzene	*101*			*82-124*	*%REC*	*500*	*30-Apr-2019 12:13*
Surr: Dibromofluoromethane	*83.1*			*77-123*	*%REC*	*500*	*30-Apr-2019 12:13*
Surr: Dibromofluoromethane	*100*			*77-123*	*%REC*	*5000*	*01-May-2019 02:59*
Surr: Toluene-d8	*99.5*			*82-127*	*%REC*	*5000*	*01-May-2019 02:59*
Surr: Toluene-d8	*94.5*			*82-127*	*%REC*	*500*	*30-Apr-2019 12:13*
TCLP SEMIVOLATILES		**Method:SW1311/8270**	Leache:SW1311 / 29-Apr-2019		Prep:SW3510 / 29-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.022	0.12	mg/L	20	29-Apr-2019 21:29
2,4,6-Trichlorophenol	U		0.034	0.12	mg/L	20	29-Apr-2019 21:29
2,4-Dinitrotoluene	U		0.024	0.12	mg/L	20	29-Apr-2019 21:29
Cresols, Total	**0.32**	J	**0.048**	**0.36**	**mg/L**	20	29-Apr-2019 21:29
Hexachlorobenzene	U		0.027	0.12	mg/L	20	29-Apr-2019 21:29
Hexachlorobutadiene	U		0.027	0.12	mg/L	20	29-Apr-2019 21:29
Hexachloroethane	U		0.024	0.12	mg/L	20	29-Apr-2019 21:29
Nitrobenzene	U		0.019	0.12	mg/L	20	29-Apr-2019 21:29
Pentachlorophenol	U		0.039	0.12	mg/L	20	29-Apr-2019 21:29
Pyridine	U		0.048	0.12	mg/L	20	29-Apr-2019 21:29
Surr: 2,4,6-Tribromophenol	*47.0*	*J*		*39-153*	*%REC*	*20*	*29-Apr-2019 21:29*
Surr: 2-Fluorobiphenyl	*64.7*	*J*		*40-147*	*%REC*	*20*	*29-Apr-2019 21:29*
Surr: 2-Fluorophenol	*68.9*	*J*		*21-110*	*%REC*	*20*	*29-Apr-2019 21:29*
Surr: 4-Terphenyl-d14	*85.3*	*J*		*39-141*	*%REC*	*20*	*29-Apr-2019 21:29*
Surr: Nitrobenzene-d5	*74.6*	*J*		*37-140*	*%REC*	*20*	*29-Apr-2019 21:29*
Surr: Phenol-d6	*74.3*	*J*		*11-110*	*%REC*	*20*	*29-Apr-2019 21:29*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Sample ID: WW-20190426-MSRC570-T4S-M-001
Collection Date: 26-Apr-2019 12:45

ANALYTICAL REPORT
WorkOrder:HS19041558
Lab ID:HS19041558-04
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 29-Apr-2019	Prep:SW3510C / 30-Apr-2019		Analyst: JBA
Chlordane	U		0.00026	0.00064	mg/L	1	01-May-2019 01:12
Endrin	U		0.000038	0.00013	mg/L	1	01-May-2019 01:12
gamma-BHC	U		0.000013	0.000064	mg/L	1	01-May-2019 01:12
Heptachlor	U		0.000013	0.000064	mg/L	1	01-May-2019 01:12
Heptachlor epoxide	U		0.000013	0.000064	mg/L	1	01-May-2019 01:12
Methoxychlor	U		0.00019	0.00064	mg/L	1	01-May-2019 01:12
Toxaphene	U		0.00026	0.00064	mg/L	1	01-May-2019 01:12
Surr: Decachlorobiphenyl	*89.8*			*30-150*	*%REC*	*1*	*01-May-2019 01:12*
Surr: Tetrachloro-m-xylene	*78.1*			*30-150*	*%REC*	*1*	*01-May-2019 01:12*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 29-Apr-2019	Prep:SW8151 / 29-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	U		0.000061	0.00024	mg/L	1	30-Apr-2019 20:56
2,4-D	**0.00044**		**0.000073**	**0.00024**	**mg/L**	1	30-Apr-2019 20:56
Surr: DCAA	*110*			*40-140*	*%REC*	*1*	*30-Apr-2019 20:56*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 29-Apr-2019	Prep:SW3010A / 29-Apr-2019		Analyst: JC
Antimony	**0.00462**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:34
Arsenic	**0.00992**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:34
Barium	**0.0907**	J	**0.0190**	**0.200**	**mg/L**	1	30-Apr-2019 01:34
Beryllium	U		0.00200	0.0200	mg/L	1	30-Apr-2019 01:34
Cadmium	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:34
Chromium	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:34
Lead	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:34
Nickel	**0.0122**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:34
Selenium	U		0.0110	0.0500	mg/L	1	30-Apr-2019 01:34
Silver	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:34
Vanadium	**0.00751**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:34
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 29-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 18:03
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	01-May-2019 14:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	30-Apr-2019 14:45
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	30-Apr-2019 13:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**6.03**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**22.4**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Sample ID: WW-20190426-MSRC570-T4P-B-001
Collection Date: 26-Apr-2019 13:05

ANALYTICAL REPORT
WorkOrder:HS19041558
Lab ID:HS19041558-05
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP VOLATILES		**Method:SW1311/8260B**	Leache:SW1311 / 29-Apr-2019		Prep:SW1311 / 29-Apr-2019		Analyst: PC
1,1-Dichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 12:37
1,2-Dichloroethane	U		0.25	2.5	mg/L	500	30-Apr-2019 12:37
1,4-Dichlorobenzene	U		0.30	2.5	mg/L	500	30-Apr-2019 12:37
2-Butanone	U		0.50	5.0	mg/L	500	30-Apr-2019 12:37
Benzene	**460**		**3.0**	**25**	**mg/L**	5000	01-May-2019 03:24
Carbon tetrachloride	U		0.30	2.5	mg/L	500	30-Apr-2019 12:37
Chlorobenzene	U		0.20	2.5	mg/L	500	30-Apr-2019 12:37
Chloroform	U		0.30	2.5	mg/L	500	30-Apr-2019 12:37
Tetrachloroethene	U		0.30	2.5	mg/L	500	30-Apr-2019 12:37
Trichloroethene	U		0.25	2.5	mg/L	500	30-Apr-2019 12:37
Vinyl chloride	U		0.20	1.0	mg/L	500	30-Apr-2019 12:37
Surr: 1,2-Dichloroethane-d4	*84.7*			*70-126*	*%REC*	*500*	*30-Apr-2019 12:37*
Surr: 1,2-Dichloroethane-d4	*98.8*			*70-126*	*%REC*	*5000*	*01-May-2019 03:24*
Surr: 4-Bromofluorobenzene	*98.2*			*82-124*	*%REC*	*5000*	*01-May-2019 03:24*
Surr: 4-Bromofluorobenzene	*101*			*82-124*	*%REC*	*500*	*30-Apr-2019 12:37*
Surr: Dibromofluoromethane	*84.4*			*77-123*	*%REC*	*500*	*30-Apr-2019 12:37*
Surr: Dibromofluoromethane	*95.2*			*77-123*	*%REC*	*5000*	*01-May-2019 03:24*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*5000*	*01-May-2019 03:24*
Surr: Toluene-d8	*93.9*			*82-127*	*%REC*	*500*	*30-Apr-2019 12:37*
TCLP SEMIVOLATILES		**Method:SW1311/8270**	Leache:SW1311 / 29-Apr-2019		Prep:SW3510 / 29-Apr-2019		Analyst: SGA
2,4,5-Trichlorophenol	U		0.032	0.18	mg/L	20	29-Apr-2019 21:50
2,4,6-Trichlorophenol	U		0.050	0.18	mg/L	20	29-Apr-2019 21:50
2,4-Dinitrotoluene	U		0.036	0.18	mg/L	20	29-Apr-2019 21:50
Cresols, Total	**0.32**	J	**0.071**	**0.54**	**mg/L**	20	29-Apr-2019 21:50
Hexachlorobenzene	U		0.039	0.18	mg/L	20	29-Apr-2019 21:50
Hexachlorobutadiene	U		0.039	0.18	mg/L	20	29-Apr-2019 21:50
Hexachloroethane	U		0.036	0.18	mg/L	20	29-Apr-2019 21:50
Nitrobenzene	U		0.029	0.18	mg/L	20	29-Apr-2019 21:50
Pentachlorophenol	U		0.057	0.18	mg/L	20	29-Apr-2019 21:50
Pyridine	U		0.071	0.18	mg/L	20	29-Apr-2019 21:50
Surr: 2,4,6-Tribromophenol	*51.0*	*J*		*39-153*	*%REC*	*20*	*29-Apr-2019 21:50*
Surr: 2-Fluorobiphenyl	*73.7*	*J*		*40-147*	*%REC*	*20*	*29-Apr-2019 21:50*
Surr: 2-Fluorophenol	*78.0*	*J*		*21-110*	*%REC*	*20*	*29-Apr-2019 21:50*
Surr: 4-Terphenyl-d14	*78.0*	*J*		*39-141*	*%REC*	*20*	*29-Apr-2019 21:50*
Surr: Nitrobenzene-d5	*104*	*J*		*37-140*	*%REC*	*20*	*29-Apr-2019 21:50*
Surr: Phenol-d6	*66.7*	*J*		*11-110*	*%REC*	*20*	*29-Apr-2019 21:50*

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client:	Cardno	**ANALYTICAL REPORT**	
Project:	Deer Park Fire K29120 MSRC570	WorkOrder:HS19041558	
Sample ID:	WW-20190426-MSRC570-T4P-B-001	Lab ID:HS19041558-05	
Collection Date:	26-Apr-2019 13:05	Matrix:Water	

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
TCLP PESTICIDES BY SW8081B		**Method:SW1311/8081A**		Leache:SW1311 / 29-Apr-2019	Prep:SW3510C / 30-Apr-2019		Analyst: JBA
Chlordane	U		0.00025	0.00063	mg/L	1	01-May-2019 01:33
Endrin	U		0.000038	0.00013	mg/L	1	01-May-2019 01:33
gamma-BHC	U		0.000013	0.000063	mg/L	1	01-May-2019 01:33
Heptachlor	U		0.000013	0.000063	mg/L	1	01-May-2019 01:33
Heptachlor epoxide	U		0.000013	0.000063	mg/L	1	01-May-2019 01:33
Methoxychlor	U		0.00019	0.00063	mg/L	1	01-May-2019 01:33
Toxaphene	U		0.00025	0.00063	mg/L	1	01-May-2019 01:33
Surr: Decachlorobiphenyl	*78.9*			*30-150*	*%REC*	*1*	*01-May-2019 01:33*
Surr: Tetrachloro-m-xylene	*71.1*			*30-150*	*%REC*	*1*	*01-May-2019 01:33*
TCLP HERBICIDES BY SW8151A		**Method:SW1311/8150**		Leache:SW1311 / 29-Apr-2019	Prep:SW8151 / 29-Apr-2019		Analyst: JBA
2,4,5-TP (Silvex)	**0.000071**	JP	**0.000060**	**0.00024**	**mg/L**	1	30-Apr-2019 21:15
2,4-D	**0.00019**	JP	**0.000072**	**0.00024**	**mg/L**	1	30-Apr-2019 21:15
Surr: DCAA	*87.1*			*40-140*	*%REC*	*1*	*30-Apr-2019 21:15*
TCLP METALS BY SW6020A		**Method:SW1311/6020**		Leache:SW1311 / 29-Apr-2019	Prep:SW3010A / 29-Apr-2019		Analyst: JC
Antimony	**0.00460**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:41
Arsenic	**0.00866**	J	**0.00400**	**0.0500**	**mg/L**	1	30-Apr-2019 01:41
Barium	**0.0865**	J	**0.0190**	**0.200**	**mg/L**	1	30-Apr-2019 01:41
Beryllium	U		0.00200	0.0200	mg/L	1	30-Apr-2019 01:41
Cadmium	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:41
Chromium	U		0.00400	0.0500	mg/L	1	30-Apr-2019 01:41
Lead	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:41
Nickel	**0.0123**	J	**0.00600**	**0.0500**	**mg/L**	1	30-Apr-2019 01:41
Selenium	U		0.0110	0.0500	mg/L	1	30-Apr-2019 01:41
Silver	U		0.00200	0.0500	mg/L	1	30-Apr-2019 01:41
Vanadium	U		0.00600	0.0500	mg/L	1	30-Apr-2019 01:41
TCLP MERCURY BY SW7470A		**Method:SW7470**		Leache:SW1311 / 29-Apr-2019	Prep:SW7470 / 29-Apr-2019		Analyst: FO
Mercury	U		0.000300	0.00200	mg/L	1	29-Apr-2019 18:05
FLASH POINT BY PENSKY-MARTENS SW1010A		**Method:SW1010**					Analyst: KAH
Ignitability	> 212		70.0	70.0	°F	1	01-May-2019 14:00
REACTIVE CYANIDE		**Method:SW7.3.3.2**			Prep:SW7.3.3.2		Analyst: KVL
Reactive Cyanide	U		100	100	mg/Kg	1	30-Apr-2019 14:45
REACTIVE SULFIDE		**Method:SW7.3.4.2**					Analyst: KVL
Reactive Sulfide	U		100	100	mg/Kg	1	30-Apr-2019 13:30
PH BY SW9040C		**Method:SW9040C**					Analyst: MWG
pH	**5.96**	H	**0.100**	**0.100**	**pH Units**	1	29-Apr-2019 12:30
Temp Deg C @pH	**22.5**	H	**0**	**0**	**DEG C**	1	29-Apr-2019 12:30

Note: See Qualifiers Page for a list of qualifiers and their explanation.

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WEIGHT LOG

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

Batch ID: 140283 **Method:** TCLP SEMIVOLATILES **Prep:** 3510_B

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	820	1 (mL)	0.00122
HS19041558-02	1	830	1 (mL)	0.001205
HS19041558-03	1	850	1 (mL)	0.001176
HS19041558-04	1	830	1 (mL)	0.001205
HS19041558-05	1	840	1.5 (mL)	0.001786

Batch ID: 140290 **Method:** TCLP VOLATILES **Prep:** 1311ZHE

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	25	500 (mL)	1
HS19041558-02	1	25	500 (mL)	1
HS19041558-03	1	25	500 (mL)	1
HS19041558-04	1	25	500 (mL)	1
HS19041558-05	1	25	500 (mL)	1

Batch ID: 140312 **Method:** TCLP HERBICIDES BY SW8151A **Prep:** 3510_H

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	850	10 (mL)	0.01176
HS19041558-02	1	820	10 (mL)	0.0122
HS19041558-03	1	860	10 (mL)	0.01163
HS19041558-04	1	820	10 (mL)	0.0122
HS19041558-05	1	830	10 (mL)	0.01205

Batch ID: 140316 **Method:** TCLP METALS BY SW6020A **Prep:** 3010A_TCLP

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	1	10 (mL)	10
HS19041558-02	1	1	10 (mL)	10
HS19041558-03	1	1	10 (mL)	10
HS19041558-04	1	1	10 (mL)	10
HS19041558-05	1	1	10 (mL)	10

Batch ID: 140323 **Method:** TCLP MERCURY BY SW7470A **Prep:** 1311_HGPR

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	1 (mL)	10 (mL)	10
HS19041558-02	1	1 (mL)	10 (mL)	10
HS19041558-03	1	1 (mL)	10 (mL)	10
HS19041558-04	1	1 (mL)	10 (mL)	10
HS19041558-05	1	1 (mL)	10 (mL)	10

RIGHT SOLUTIONS | RIGHT PARTNER

WEIGHT LOG

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

Batch ID: 140331 **Method:** TCLP PESTICIDES BY SW8081B **Prep:** 3510_P

SampID	Container	Sample Wt/Vol	Final Volume	Prep Factor
HS19041558-01	1	810	10 (mL)	0.01235
HS19041558-02	1	790	10 (mL)	0.01266
HS19041558-03	1	820	10 (mL)	0.0122
HS19041558-04	1	780	10 (mL)	0.01282
HS19041558-05	1	790	10 (mL)	0.01266

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 140283	**Test Name :** TCLP SEMIVOLATILES			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 10:03	29 Apr 2019 08:55	29 Apr 2019 20:25	20
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 10:03	29 Apr 2019 08:55	29 Apr 2019 20:46	20
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 10:03	29 Apr 2019 08:55	29 Apr 2019 21:07	20
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 10:03	29 Apr 2019 08:55	29 Apr 2019 21:29	20
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 10:03	29 Apr 2019 08:55	29 Apr 2019 21:50	20
Batch ID 140290	**Test Name :** TCLP VOLATILES			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 12:00	29 Apr 2019 12:00	30 Apr 2019 11:01	500
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 12:00	29 Apr 2019 12:00	30 Apr 2019 11:25	500
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 12:00	29 Apr 2019 12:00	30 Apr 2019 11:49	500
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 12:00	29 Apr 2019 12:00	30 Apr 2019 12:13	500
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 12:00	29 Apr 2019 12:00	01 May 2019 02:59	5000
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 12:00	29 Apr 2019 12:00	30 Apr 2019 12:37	500
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 12:00	29 Apr 2019 12:00	01 May 2019 03:24	5000
Batch ID 140312	**Test Name :** TCLP HERBICIDES BY SW8151A			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 11:30	29 Apr 2019 14:05	30 Apr 2019 20:01	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 11:30	29 Apr 2019 14:05	30 Apr 2019 20:20	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 11:30	29 Apr 2019 14:05	30 Apr 2019 20:38	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 11:30	29 Apr 2019 14:05	30 Apr 2019 20:56	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 11:30	29 Apr 2019 14:05	30 Apr 2019 21:15	1
Batch ID 140316	**Test Name :** TCLP METALS BY SW6020A			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 11:30	29 Apr 2019 11:00	30 Apr 2019 01:27	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 11:30	29 Apr 2019 11:00	30 Apr 2019 01:30	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 11:30	29 Apr 2019 11:00	30 Apr 2019 01:32	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 11:30	29 Apr 2019 11:00	30 Apr 2019 01:34	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 11:30	29 Apr 2019 11:00	30 Apr 2019 01:41	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID 140323	**Test Name :** TCLP MERCURY BY SW7470A			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 11:30	29 Apr 2019 12:30	29 Apr 2019 17:58	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 11:30	29 Apr 2019 12:30	29 Apr 2019 18:00	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 11:30	29 Apr 2019 12:30	29 Apr 2019 18:02	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 11:30	29 Apr 2019 12:30	29 Apr 2019 18:03	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 11:30	29 Apr 2019 12:30	29 Apr 2019 18:05	1
Batch ID 140331	**Test Name :** TCLP PESTICIDES BY SW8081B			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10	29 Apr 2019 11:30	30 Apr 2019 10:04	01 May 2019 00:08	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45	29 Apr 2019 11:30	30 Apr 2019 10:04	01 May 2019 00:29	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05	29 Apr 2019 11:30	30 Apr 2019 10:04	01 May 2019 00:50	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45	29 Apr 2019 11:30	30 Apr 2019 10:04	01 May 2019 01:12	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05	29 Apr 2019 11:30	30 Apr 2019 10:04	01 May 2019 01:33	1
Batch ID R337438	**Test Name :** PH BY SW9040C			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10			29 Apr 2019 12:30	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45			29 Apr 2019 12:30	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05			29 Apr 2019 12:30	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45			29 Apr 2019 12:30	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05			29 Apr 2019 12:30	1
Batch ID R337561	**Test Name :** REACTIVE CYANIDE			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10			30 Apr 2019 14:45	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45			30 Apr 2019 14:45	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05			30 Apr 2019 14:45	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45			30 Apr 2019 14:45	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05			30 Apr 2019 14:45	1
Batch ID R337563	**Test Name :** REACTIVE SULFIDE			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10			30 Apr 2019 13:30	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45			30 Apr 2019 13:30	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05			30 Apr 2019 13:30	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45			30 Apr 2019 13:30	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05			30 Apr 2019 13:30	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

DATES REPORT

Sample ID	Client Samp ID	Collection Date	TCLP Date	Prep Date	Analysis Date	DF
Batch ID R337662	**Test Name :** FLASH POINT BY PENSKY-MARTENS SW1010A			**Matrix:** Water		
HS19041558-01	WW-20190426-K29120-T2P-T-001	26 Apr 2019 11:10			01 May 2019 14:00	1
HS19041558-02	WW-20190426-K29120-T2P-M-001	26 Apr 2019 11:45			01 May 2019 14:00	1
HS19041558-03	WW-20190426-K29120-T2P-B-001	26 Apr 2019 12:05			01 May 2019 14:00	1
HS19041558-04	WW-20190426-MSRC570-T4S-M-001	26 Apr 2019 12:45			01 May 2019 14:00	1
HS19041558-05	WW-20190426-MSRC570-T4P-B-001	26 Apr 2019 13:05			01 May 2019 14:00	1

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140312 (0) **Instrument: ECD_13** **Method: TCLP HERBICIDES BY SW8151A**

MBLK Sample ID: **MBLK-140312** Units: **ug/L** Analysis Date: **30-Apr-2019 21:33**
Client ID: Run ID: **ECD_13_337617** SeqNo: **5057678** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	U	0.20								
2,4-D	U	0.20								
Surr: DCAA	*5.245*	*0.20*	*5*	*0*	*105*	*40 - 140*				

LCS Sample ID: **LCS-140312** Units: **ug/L** Analysis Date: **30-Apr-2019 21:51**
Client ID: Run ID: **ECD_13_337617** SeqNo: **5057679** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	3.472	0.20	2.5	0	139	40 - 140				
2,4-D	2.766	0.20	2.5	0	111	20 - 125				
Surr: DCAA	*6.766*	*0.20*	*5*	*0*	*135*	*40 - 140*				

LCSD Sample ID: **LCSD-140312** Units: **ug/L** Analysis Date: **30-Apr-2019 22:10**
Client ID: Run ID: **ECD_13_337617** SeqNo: **5057680** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-TP (Silvex)	3.476	0.20	2.5	0	139	40 - 140	3.472	0.107	30	
2,4-D	2.775	0.20	2.5	0	111	20 - 125	2.766	0.314	30	
Surr: DCAA	*6.895*	*0.20*	*5*	*0*	*138*	*40 - 140*	*6.766*	*1.89*	*30*	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140331 (0) **Instrument: ECD_11** **Method: TCLP PESTICIDES BY SW8081B**

MBLK Sample ID: **MBLK-140331** Units: **ug/L** Analysis Date: **30-Apr-2019 22:21**
Client ID: Run ID: **ECD_11_337611** SeqNo: **5057564** PrepDate: **30-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chlordane	U	0.50								
Endrin	U	0.10								
gamma-BHC	U	0.050								
Heptachlor	U	0.050								
Heptachlor epoxide	U	0.050								
Methoxychlor	U	0.50								
Toxaphene	U	0.50								
Surr: Decachlorobiphenyl	*0.1735*	*0.10*	*0.2*	*0*	*86.8*	*30 - 150*				
Surr: Tetrachloro-m-xylene	*0.1725*	*0.050*	*0.2*	*0*	*86.2*	*30 - 150*				

LCS Sample ID: **LCS-140331** Units: **ug/L** Analysis Date: **01-May-2019 01:54**
Client ID: Run ID: **ECD_11_337611** SeqNo: **5057562** PrepDate: **30-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Endrin	0.4128	0.10	0.5	0	82.6	54 - 148				
gamma-BHC	0.2164	0.050	0.25	0	86.5	58 - 130				
Heptachlor	0.2671	0.050	0.25	0	107	40 - 140				
Heptachlor epoxide	0.2051	0.050	0.25	0	82.0	40 - 140				
Methoxychlor	2.268	0.50	2.5	0	90.7	50 - 150				
Surr: Decachlorobiphenyl	*0.1477*	*0.10*	*0.2*	*0*	*73.9*	*30 - 150*				
Surr: Tetrachloro-m-xylene	*0.1575*	*0.050*	*0.2*	*0*	*78.7*	*30 - 150*				

LCSD Sample ID: **LCSD-140331** Units: **ug/L** Analysis Date: **01-May-2019 02:15**
Client ID: Run ID: **ECD_11_337611** SeqNo: **5057563** PrepDate: **30-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Endrin	0.5242	0.10	0.5	0	105	54 - 148	0.4128	23.8	20	R
gamma-BHC	0.2745	0.050	0.25	0	110	58 - 130	0.2164	23.7	20	R
Heptachlor	0.3371	0.050	0.25	0	135	40 - 140	0.2671	23.2	20	R
Heptachlor epoxide	0.2592	0.050	0.25	0	104	40 - 140	0.2051	23.3	20	R
Methoxychlor	2.886	0.50	2.5	0	115	50 - 150	2.268	24	20	R
Surr: Decachlorobiphenyl	*0.187*	*0.10*	*0.2*	*0*	*93.5*	*30 - 150*	*0.1477*	*23.5*	*20*	R
Surr: Tetrachloro-m-xylene	*0.1996*	*0.050*	*0.2*	*0*	*99.8*	*30 - 150*	*0.1575*	*23.6*	*20*	R

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140316 (0) **Instrument: ICPMS04** **Method: TCLP METALS BY SW6020A**

MBLK Sample ID: **MBLKT2-140316** Units: **mg/L** Analysis Date: **30-Apr-2019 00:54**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055131** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Vanadium	U	0.0500								

MBLK Sample ID: **MBLKT1-140316** Units: **mg/L** Analysis Date: **30-Apr-2019 00:51**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055130** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.0500								
Arsenic	U	0.0500								
Barium	U	0.200								
Beryllium	U	0.0200								
Cadmium	U	0.0500								
Chromium	U	0.0500								
Lead	U	0.0500								
Nickel	U	0.0500								
Selenium	U	0.0500								
Silver	U	0.0500								
Vanadium	U	0.0500								

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140316 (0) **Instrument:** ICPMS04 **Method:** TCLP METALS BY SW6020A

MBLK Sample ID: **MBLK-140316** Units: **mg/L** Analysis Date: **30-Apr-2019 00:49**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055129** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	U	0.00500								
Arsenic	U	0.00500								
Barium	U	0.0200								
Beryllium	U	0.00200								
Cadmium	U	0.00500								
Chromium	U	0.00500								
Lead	U	0.00500								
Nickel	U	0.00500								
Selenium	U	0.00500								
Silver	U	0.00500								
Vanadium	U	0.00500								

LCS Sample ID: **LCS-140316** Units: **mg/L** Analysis Date: **30-Apr-2019 00:56**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055132** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.05497	0.00500	0.05	0	110	80 - 120				
Arsenic	0.05694	0.00500	0.05	0	114	80 - 120				
Barium	0.05544	0.0200	0.05	0	111	80 - 120				
Beryllium	0.05576	0.00200	0.05	0	112	80 - 120				
Cadmium	0.05745	0.00500	0.05	0	115	80 - 120				
Chromium	0.0549	0.00500	0.05	0	110	80 - 120				
Lead	0.05377	0.00500	0.05	0	108	80 - 120				
Nickel	0.05422	0.00500	0.05	0	108	80 - 120				
Selenium	0.05474	0.00500	0.05	0	109	80 - 120				
Silver	0.05425	0.00500	0.05	0	108	80 - 120				
Vanadium	0.05371	0.00500	0.05	0	107	80 - 120				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140316 (0) **Instrument: ICPMS04** **Method: TCLP METALS BY SW6020A**

MS Sample ID: **HS19041463-01MS** Units: **mg/L** Analysis Date: **30-Apr-2019 01:03**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055093** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5476	0.0500	0.5	0.00064	109	80 - 120				
Arsenic	0.5592	0.0500	0.5	0.00059	112	80 - 120				
Barium	0.6038	0.200	0.5	0.04542	112	80 - 120				
Beryllium	0.5582	0.0200	0.5	-0.00059	112	80 - 120				
Cadmium	0.5747	0.0500	0.5	0.00006	115	80 - 120				
Chromium	0.5435	0.0500	0.5	0.00078	109	80 - 120				
Lead	0.5367	0.0500	0.5	0.00048	107	80 - 120				
Nickel	0.5462	0.0500	0.5	-0.00484	110	80 - 120				
Selenium	0.5679	0.0500	0.5	0.00317	113	80 - 120				
Silver	0.5363	0.0500	0.5	0.00024	107	80 - 120				
Vanadium	0.541	0.0500	0.5	-0.00601	109	80 - 120				

MSD Sample ID: **HS19041463-01MSD** Units: **mg/L** Analysis Date: **30-Apr-2019 01:05**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055094** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	0.5506	0.0500	0.5	0.00064	110	80 - 120	0.5476	0.543	20	
Arsenic	0.5661	0.0500	0.5	0.00059	113	80 - 120	0.5592	1.23	20	
Barium	0.6031	0.200	0.5	0.04542	112	80 - 120	0.6038	0.121	20	
Beryllium	0.5505	0.0200	0.5	-0.00059	110	80 - 120	0.5582	1.39	20	
Cadmium	0.5797	0.0500	0.5	0.00006	116	80 - 120	0.5747	0.863	20	
Chromium	0.5497	0.0500	0.5	0.00078	110	80 - 120	0.5435	1.13	20	
Lead	0.5552	0.0500	0.5	0.00048	111	80 - 120	0.5367	3.39	20	
Nickel	0.5522	0.0500	0.5	-0.00484	111	80 - 120	0.5462	1.08	20	
Selenium	0.5818	0.0500	0.5	0.00317	116	80 - 120	0.5679	2.42	20	
Silver	0.5362	0.0500	0.5	0.00024	107	80 - 120	0.5363	0.0168	20	
Vanadium	0.5425	0.0500	0.5	-0.00601	110	80 - 120	0.541	0.284	20	

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140316 (0) **Instrument: ICPMS04** **Method: TCLP METALS BY SW6020A**

PDS Sample ID: **HS19041463-01PDS** Units: **mg/L** Analysis Date: **30-Apr-2019 01:07**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055095** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Antimony	1.04	0.0500	1	0.00064	104	75 - 125				
Arsenic	1.167	0.0500	1	0.00059	117	75 - 125				
Barium	1.203	0.200	1	0.04542	116	75 - 125				
Beryllium	1.187	0.0200	1	-0.00059	119	75 - 125				
Cadmium	1.181	0.0500	1	0.00006	118	75 - 125				
Chromium	1.12	0.0500	1	0.00078	112	75 - 125				
Lead	1.123	0.0500	1	0.00048	112	75 - 125				
Nickel	1.115	0.0500	1	-0.00484	112	75 - 125				
Selenium	1.164	0.0500	1	0.00317	116	75 - 125				
Silver	1.006	0.0500	1	0.00024	101	75 - 125				
Vanadium	1.118	0.0500	1	-0.00601	112	75 - 125				

SD Sample ID: **HS19041463-01SD** Units: **mg/L** Analysis Date: **30-Apr-2019 01:00**
Client ID: Run ID: **ICPMS04_337434** SeqNo: **5055092** PrepDate: **29-Apr-2019** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%D	%D Limit	Qual
Antimony	U	0.250					0.00064	0	10	
Arsenic	U	0.250					0.00059	0	10	
Barium	U	1.00					0.04542	0	10	
Beryllium	U	0.100					-0.00059	0	10	
Cadmium	U	0.250					0.00006	0	10	
Chromium	U	0.250					0.00078	0	10	
Lead	U	0.250					0.00048	0	10	
Nickel	U	0.250					-0.00484	0	10	
Selenium	U	0.250					0.00317	0	10	
Silver	U	0.250					0.00024	0	10	
Vanadium	U	0.250					-0.00601	0	10	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140323 (0) **Instrument: HG03** **Method: TCLP MERCURY BY SW7470A**

MBLK Sample ID: **MBLKT1-140323** Units: **mg/L** Analysis Date: **29-Apr-2019 17:33**
Client ID: Run ID: **HG03_337492** SeqNo: **5054861** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

MBLK Sample ID: **MBLK-140323** Units: **mg/L** Analysis Date: **29-Apr-2019 17:24**
Client ID: Run ID: **HG03_337492** SeqNo: **5054856** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	U	0.000200								

LCS Sample ID: **LCS-140323** Units: **mg/L** Analysis Date: **29-Apr-2019 17:26**
Client ID: Run ID: **HG03_337492** SeqNo: **5054857** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00511	0.000200	0.005	0	102	80 - 120				

MS Sample ID: **HS19041371-01MS** Units: **mg/L** Analysis Date: **29-Apr-2019 17:29**
Client ID: Run ID: **HG03_337492** SeqNo: **5054859** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00513	0.000200	0.005	-0.000015	103	75 - 125				

MSD Sample ID: **HS19041371-01MSD** Units: **mg/L** Analysis Date: **29-Apr-2019 17:31**
Client ID: Run ID: **HG03_337492** SeqNo: **5054860** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.00499	0.000200	0.005	-0.000015	100	75 - 125	0.00513	2.77	20	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140283 (0) **Instrument:** SV-4 **Method:** SEMIVOLATILES - 8270D

MBLK Sample ID: **MBLK-140283** Units: **ug/L** Analysis Date: **29-Apr-2019 10:11**
Client ID: Run ID: **SV-4_337432** SeqNo: **5054247** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	U	5.0								
2,4,6-Trichlorophenol	U	5.0								
2,4-Dinitrotoluene	U	5.0								
Hexachlorobenzene	U	5.0								
Hexachlorobutadiene	U	5.0								
Hexachloroethane	U	5.0								
Nitrobenzene	U	5.0								
Pentachlorophenol	U	5.0								
Pyridine	U	5.0								
Surr: 2,4,6-Tribromophenol	*60.31*	*5.0*	*100*	*0*	*60.3*	*42 - 124*				
Surr: 2-Fluorobiphenyl	*63.65*	*5.0*	*100*	*0*	*63.7*	*48 - 120*				
Surr: 2-Fluorophenol	*71.27*	*5.0*	*100*	*0*	*71.3*	*20 - 120*				
Surr: 4-Terphenyl-d14	*79.67*	*5.0*	*100*	*0*	*79.7*	*51 - 135*				
Surr: Nitrobenzene-d5	*77.86*	*5.0*	*100*	*0*	*77.9*	*41 - 120*				
Surr: Phenol-d6	*83.42*	*5.0*	*100*	*0*	*83.4*	*20 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140283 (0) **Instrument: SV-4** **Method: SEMIVOLATILES - 8270D**

LCS Sample ID: **LCS-140283** Units: **ug/L** Analysis Date: **29-Apr-2019 09:08**
Client ID: Run ID: **SV-4_337432** SeqNo: **5054245** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	75.24	5.0	100	0	75.2	55 - 120				
2,4,6-Trichlorophenol	80.06	5.0	100	0	80.1	55 - 120				
2,4-Dinitrotoluene	36.84	5.0	50	0	73.7	55 - 125				
Hexachlorobenzene	41.98	5.0	50	0	84.0	55 - 120				
Hexachlorobutadiene	35.5	5.0	50	0	71.0	55 - 120				
Hexachloroethane	42.92	5.0	50	0	85.8	55 - 120				
Nitrobenzene	47.45	5.0	50	0	94.9	55 - 120				
Pentachlorophenol	84.09	5.0	100	0	84.1	50 - 135				
Pyridine	39.87	5.0	50	0	79.7	30 - 120				
Surr: 2,4,6-Tribromophenol	*69.62*	*5.0*	*100*	*0*	*69.6*	*42 - 124*				
Surr: 2-Fluorobiphenyl	*84.26*	*5.0*	*100*	*0*	*84.3*	*48 - 120*				
Surr: 2-Fluorophenol	*95.06*	*5.0*	*100*	*0*	*95.1*	*20 - 120*				
Surr: 4-Terphenyl-d14	*96.08*	*5.0*	*100*	*0*	*96.1*	*51 - 135*				
Surr: Nitrobenzene-d5	*99.61*	*5.0*	*100*	*0*	*99.6*	*41 - 120*				
Surr: Phenol-d6	*94.13*	*5.0*	*100*	*0*	*94.1*	*20 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140283 (0) **Instrument: SV-4** **Method: SEMIVOLATILES - 8270D**

LCSD Sample ID: **LCSD-140283** Units: **ug/L** Analysis Date: **29-Apr-2019 09:50**
Client ID: Run ID: **SV-4_337432** SeqNo: **5054246** PrepDate: **29-Apr-2019** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2,4,5-Trichlorophenol	79.52	5.0	100	0	79.5	55 - 120	75.24	5.54	20	
2,4,6-Trichlorophenol	81.21	5.0	100	0	81.2	55 - 120	80.06	1.42	20	
2,4-Dinitrotoluene	38.37	5.0	50	0	76.7	55 - 125	36.84	4.08	20	
Hexachlorobenzene	40.4	5.0	50	0	80.8	55 - 120	41.98	3.83	20	
Hexachlorobutadiene	35.53	5.0	50	0	71.1	55 - 120	35.5	0.0942	20	
Hexachloroethane	43.19	5.0	50	0	86.4	55 - 120	42.92	0.627	20	
Nitrobenzene	48.7	5.0	50	0	97.4	55 - 120	47.45	2.59	20	
Pentachlorophenol	84.57	5.0	100	0	84.6	50 - 135	84.09	0.57	20	
Pyridine	39.46	5.0	50	0	78.9	30 - 120	39.87	1.05	20	
Surr: 2,4,6-Tribromophenol	*70.23*	*5.0*	*100*	*0*	*70.2*	*42 - 124*	*69.62*	*0.874*	*20*	
Surr: 2-Fluorobiphenyl	*83.49*	*5.0*	*100*	*0*	*83.5*	*48 - 120*	*84.26*	*0.911*	*20*	
Surr: 2-Fluorophenol	*95.42*	*5.0*	*100*	*0*	*95.4*	*20 - 120*	*95.06*	*0.38*	*20*	
Surr: 4-Terphenyl-d14	*94.51*	*5.0*	*100*	*0*	*94.5*	*51 - 135*	*96.08*	*1.65*	*20*	
Surr: Nitrobenzene-d5	*101.4*	*5.0*	*100*	*0*	*101*	*41 - 120*	*99.61*	*1.77*	*20*	
Surr: Phenol-d6	*94.35*	*5.0*	*100*	*0*	*94.3*	*20 - 120*	*94.13*	*0.226*	*20*	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140290 (0) **Instrument:** VOA6 **Method:** TCLP VOLATILES

MBLK Sample ID: **MBLK-140290 042919** Units: **ug/L** Analysis Date: **30-Apr-2019 09:00**
Client ID: Run ID: **VOA6_337522** SeqNo: **5055723** PrepDate: **29-Apr-2019** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	U	100								
1,2-Dichloroethane	U	100								
1,4-Dichlorobenzene	U	100								
2-Butanone	U	200								
Benzene	U	100								
Carbon tetrachloride	U	100								
Chlorobenzene	U	100								
Chloroform	U	100								
Tetrachloroethene	U	100								
Trichloroethene	U	100								
Vinyl chloride	U	40								
Surr: 1,2-Dichloroethane-d4	*846.5*	*100*	*1000*	*0*	*84.6*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*1019*	*100*	*1000*	*0*	*102*	*82 - 115*				
Surr: Dibromofluoromethane	*842.7*	*100*	*1000*	*0*	*84.3*	*73 - 126*				
Surr: Toluene-d8	*954.3*	*100*	*1000*	*0*	*95.4*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140290 (0) **Instrument: VOA6** **Method: TCLP VOLATILES**

LCS Sample ID: **VLCSW-140290 0472919** Units: **ug/L** Analysis Date: **01-May-2019 00:05**
Client ID: Run ID: **VOA9_337599** SeqNo: **5057414** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	18.56	5.0	20	0	92.8	70 - 130				
1,2-Dichloroethane	19.72	5.0	20	0	98.6	70 - 124				
1,4-Dichlorobenzene	19.07	5.0	20	0	95.3	79 - 113				
2-Butanone	38.63	10	40	0	96.6	70 - 130				
Benzene	18.75	5.0	20	0	93.7	74 - 120				
Carbon tetrachloride	17.61	5.0	20	0	88.0	71 - 125				
Chlorobenzene	19.7	5.0	20	0	98.5	76 - 113				
Chloroform	20.23	5.0	20	0	101	71 - 121				
Tetrachloroethene	18.52	5.0	20	0	92.6	76 - 119				
Trichloroethene	17.93	5.0	20	0	89.7	77 - 121				
Vinyl chloride	18.57	2.0	20	0	92.9	70 - 130				
Surr: 1,2-Dichloroethane-d4	*50.67*	*5.0*	*50*	*0*	*101*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*50.74*	*5.0*	*50*	*0*	*101*	*82 - 115*				
Surr: Dibromofluoromethane	*50.35*	*5.0*	*50*	*0*	*101*	*73 - 126*				
Surr: Toluene-d8	*50.34*	*5.0*	*50*	*0*	*101*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140290 (0) **Instrument: VOA6** **Method: TCLP VOLATILES**

LCS Sample ID: **VLCSW-140290 042919** Units: **ug/L** Analysis Date: **30-Apr-2019 02:35**
Client ID: Run ID: **VOA6_337522** SeqNo: **5055719** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.43	5.0	20	0	102	70 - 130				
1,2-Dichloroethane	23.12	5.0	20	0	116	70 - 124				
1,4-Dichlorobenzene	19.52	5.0	20	0	97.6	79 - 113				
2-Butanone	44.99	10	40	0	112	70 - 130				
Benzene	21.13	5.0	20	0	106	74 - 120				
Carbon tetrachloride	24.55	5.0	20	0	123	71 - 125				
Chlorobenzene	21.31	5.0	20	0	107	76 - 113				
Chloroform	21.39	5.0	20	0	107	71 - 121				
Tetrachloroethene	23.35	5.0	20	0	117	76 - 119				
Trichloroethene	23.92	5.0	20	0	120	77 - 121				
Vinyl chloride	17.54	2.0	20	0	87.7	70 - 130				
Surr: 1,2-Dichloroethane-d4	*51.24*	*5.0*	*50*	*0*	*102*	*70 - 130*				
Surr: 4-Bromofluorobenzene	*54.48*	*5.0*	*50*	*0*	*109*	*82 - 115*				
Surr: Dibromofluoromethane	*53.11*	*5.0*	*50*	*0*	*106*	*73 - 126*				
Surr: Toluene-d8	*42.95*	*5.0*	*50*	*0*	*85.9*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140290 (0) **Instrument: VOA6** **Method: TCLP VOLATILES**

MS Sample ID: **HS19041724-02MS** Units: **ug/L** Analysis Date: **01-May-2019 02:09**
Client ID: Run ID: **VOA9_337599** SeqNo: **5057417** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	20.29	5.0	20	0	101	70 - 130				
1,2-Dichloroethane	18.74	5.0	20	0	93.7	70 - 127				
1,4-Dichlorobenzene	19.13	5.0	20	0	95.6	70 - 114				
2-Butanone	36.84	10	40	0	92.1	70 - 130				
Benzene	18.22	5.0	20	0	91.1	70 - 127				
Carbon tetrachloride	19.83	5.0	20	0	99.2	70 - 130				
Chlorobenzene	19.23	5.0	20	0	96.2	70 - 114				
Chloroform	18.71	5.0	20	0	93.5	70 - 125				
Tetrachloroethene	19.29	5.0	20	0	96.4	70 - 130				
Trichloroethene	18.07	5.0	20	0	90.4	70 - 129				
Vinyl chloride	19.51	2.0	20	0	97.6	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.61*	*5.0*	*50*	*0*	*99.2*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*50.63*	*5.0*	*50*	*0*	*101*	*82 - 124*				
Surr: Dibromofluoromethane	*49.93*	*5.0*	*50*	*0*	*99.9*	*77 - 123*				
Surr: Toluene-d8	*50.59*	*5.0*	*50*	*0*	*101*	*82 - 127*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: 140290 (0) **Instrument: VOA6** **Method: TCLP VOLATILES**

MS Sample ID: **HS19041371-01MS** Units: **ug/L** Analysis Date: **30-Apr-2019 06:12**
Client ID: Run ID: **VOA6_337522** SeqNo: **5055722** PrepDate: **26-Apr-2019** DF: **20**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,1-Dichloroethene	269.9	100	400	0	67.5	70 - 130				S
1,2-Dichloroethane	326.4	100	400	0	81.6	70 - 127				
1,4-Dichlorobenzene	321.5	100	400	0	80.4	70 - 114				
2-Butanone	573.1	200	800	0	71.6	70 - 130				
Benzene	298.5	100	400	0	74.6	70 - 127				
Carbon tetrachloride	343.4	100	400	0	85.9	70 - 130				
Chlorobenzene	328.6	100	400	0	82.2	70 - 114				
Chloroform	278.1	100	400	0	69.5	70 - 125				S
Tetrachloroethene	343.6	100	400	0	85.9	70 - 130				
Trichloroethene	325.3	100	400	0	81.3	70 - 129				
Vinyl chloride	244	40	400	0	61.0	70 - 130				S
Surr: 1,2-Dichloroethane-d4	*858*	*100*	*1000*	*0*	*85.8*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*1022*	*100*	*1000*	*0*	*102*	*82 - 124*				
Surr: Dibromofluoromethane	*852.3*	*100*	*1000*	*0*	*85.2*	*77 - 123*				
Surr: Toluene-d8	*957.4*	*100*	*1000*	*0*	*95.7*	*82 - 127*				

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: **R337438 (0)** **Instrument:** **WetChem_HS** **Method:** **PH BY SW9040C**

DUP Sample ID: **HS19041375-02DUP** Units: **pH Units** Analysis Date: **29-Apr-2019 12:30**
Client ID: Run ID: **WetChem_HS_337438** SeqNo: **5053857** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	5.33	0.100					5.33	0	10	
Temp Deg C @pH	23.4	0					23.6	0.851	10	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: R337561 (0) **Instrument: UV-2450** **Method: REACTIVE CYANIDE**

MBLK Sample ID: **MBLK-R337561** Units: **mg/Kg** Analysis Date: **30-Apr-2019 14:45**
Client ID: Run ID: **UV-2450_337561** SeqNo: **5056342** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	U	100								

LCS Sample ID: **LCS-R337561** Units: **mg/Kg** Analysis Date: **30-Apr-2019 14:45**
Client ID: Run ID: **UV-2450_337561** SeqNo: **5056341** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	0.64	10.0	10	0	6.40	5 - 100				J

MS Sample ID: **HS19041558-01MS** Units: **mg/Kg** Analysis Date: **30-Apr-2019 14:45**
Client ID: **WW-20190426-K29120-T2P-T-001** Run ID: **UV-2450_337561** SeqNo: **5056343** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Cyanide	0.66	10.0	10	0.01	6.50	5 - 100				J

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: R337563 (0) **Instrument: WetChem_HS** **Method: REACTIVE SULFIDE**

MBLK Sample ID: **MBLK-337563** Units: **mg/Kg** Analysis Date: **30-Apr-2019 13:30**
Client ID: Run ID: **WetChem_HS_337563** SeqNo: **5056426** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	U	100								

LCS Sample ID: **LCS-R337563** Units: **mg/Kg** Analysis Date: **30-Apr-2019 13:30**
Client ID: Run ID: **WetChem_HS_337563** SeqNo: **5056429** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	68	10.0	100	0	68.0	20 - 120				

MS Sample ID: **HS19041558-01MS** Units: **mg/Kg** Analysis Date: **30-Apr-2019 13:30**
Client ID: **WW-20190426-K29120-T2P-T-001** Run ID: **WetChem_HS_337563** SeqNo: **5056428** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Reactive Sulfide	64	10.0	100	0	64.0	20 - 120				

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: HS19041558

QC BATCH REPORT

Batch ID: R337662 (0) **Instrument:** WetChem_HS **Method:** FLASH POINT BY PENSKY-MARTENS SW1010A

LCS Sample ID: **LCS-R337662** Units: **°F** Analysis Date: **01-May-2019 14:00**
Client ID: Run ID: **WetChem_HS_337662** SeqNo: **5058624** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	82.74	70.0	81	0	102	95 - 105				

DUP Sample ID: **HS19041347-02DUP** Units: **°F** Analysis Date: **01-May-2019 14:00**
Client ID: Run ID: **WetChem_HS_337662** SeqNo: **5058625** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ignitability	> 212	70.0					0	0	20	

The following samples were analyzed in this batch: HS19041558-01 HS19041558-02 HS19041558-03 HS19041558-04 HS19041558-05

RIGHT SOLUTIONS | RIGHT PARTNER

Client: Cardno
Project: Deer Park Fire K29120 MSRC570
WorkOrder: **HS19041558**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
°F	Farenheit degrees
Date	
mg/L	Milligrams per Liter

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CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Illinois	004438	29-Jun-2019
Louisiana	03087	30-Jun-2019
Dept of Defense	ANAB L2231	20-Dec-2021
Kansas	E-10352 2018-2019	31-Jul-2019
Oklahoma	2018-156	31-Aug-2019
North Carolina	624-2019	31-Dec-2019
Maryland	343, 2018-2019	30-Jun-2019
Arkansas	19-028-0	27-Mar-2020
Texas	TX104704231-19-23	30-Apr-2020

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Client: Cardno
Project: Deer Park Fire K29120 MSRC570
Work Order: HS19041558

SAMPLE TRACKING

Lab Samp ID	Client Sample ID	Action	Date	Person	New Location
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	EXT166
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	EXT166
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	EXT166
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	WET371
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	WET371
HS19041558-01	WW-20190426-K29120-T2P-T-001	Login	4/26/2019 6:24:07 PM	JRM	VOA046

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Sample Receipt Checklist

Client Name: Cardno - Saginaw MI
Work Order: HS19041558
Date/Time Received: **26-Apr-2019 17:25**
Received by: **JRM**

Checklist completed by: *Jared R. Makan* (eSignature) 26-Apr-2019 (Date)
Reviewed by: *Dane J. Wacasey* (eSignature) 29-Apr-2019 (Date)

Matrices: **Water**
Carrier name: **Client**

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	4 Page(s)
Chain of custody signed when relinquished and received?	☑	☐	COC IDs:138725, 138726, 144008, 144030
Samplers name present on COC?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 4.9c/4.9c, 2.1c/2.1c, 3.9c/3.9c, 5.4c/5.4c UC/C | IR25
Cooler(s)/Kit(s): Red,Blue,Blue,Blue
Date/Time sample(s) sent to storage: 04/26/2019 19:00

	Yes	No	
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☐	☐	N/A ☑
pH adjusted?	☐	☐	N/A ☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

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Chain of Custody Form

Page 1 of 1

COC ID: 138725

HS19041558

Cardno
Deer Park Fire

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Deer Park Fire	A	RCI
Work Order		Project Number		B	TCLP Metals TX12
Company Name		Bill To Company	ITC	C	TCLP VOCs
Send Report To		Invoice Attn		D	TCLP SVOCs
Address		Address	1030 Ethyl Rd Command Center	E	TCLP Herbicides
				F	TCLP Pesticides
City/State/Zip		City/State/Zip	Pasadena TX	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address	lori.stone@cardno.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-20190426-MSRC570-T4S-B-001	4/26/19	1305	water	8	5	X	X	X								
2	WW-20190426-MSRC570-T4S-M-001	4/26/19	1245	water	8	5	X	X	X								
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Valeria Phipps ValJPL

Shipment Method: hand delivery

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
ValJPL	4/26/19	1720	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			R Cuse 4/26/19 17:20
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	UC
BLUE	3.9c
1R25	
CG0.	

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

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COC ID: 144008

HS19041558

Cardno
Deer Park Fire

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Cardno	Project Name	Deer Park Fire	A	RCI
Work Order		Project Number		B	TCLP Metals TX12
Company Name		Bill To Company	ITC	C	TCLP Herbicides
Send Report To		Invoice Attn		D	TCLP Pesticides
Address		Address	1030 Ethyl Rd Command Center	E	TCLP SVOCs
				F	TCLP VOCs
City/State/Zip		City/State/Zip	Pasadena TX	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address	lori.stone@cardno.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-20190426-K29120-T2P-B-001	4/26/19	1205	water	8	2					X						
2	WW-20190426-K29120-T2P-M-001	4/26/19	1145	water	8	4			X	X	X						
3	WW-20190426-K29120-T2P-T-001	4/26/19	1110	water	8	4			X	X	X						
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Valerie Phipps

Shipment Method: hand delivered

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date:

	Date	Time		
Relinquished by:	4/26/19	1725	Received by:	
Relinquished by:			Received by (Laboratory): R Gage 4/26/19 17:25	
Logged by (Laboratory):			Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp
	UL
BLUE	2-1c
1R 25	
CE 0	

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Chain of Custody Form

Page 1 of 1

COC ID: 138726

HS19041558

Cardno
Deer Park Fire

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Deer Park Fire	A	RCI
Work Order		Project Number		B	TCLP Metals TX 12
Company Name		Bill To Company	ITC	C	TCLP VOCs
Send Report To		Invoice Attn		D	TCLP SVOCs
Address		Address	1030 Ethyl Rd Command Center	E	TCLP Herbicides
				F	TCLP Pesticides
City/State/Zip		City/State/Zip	Pasadena TX	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address	lori.stone@cardno.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-20190426-K29120-T2P-T-001	4/26/19	1110	water	8	5	X	X	X								
2	WW-20190426-K29120-T2P-M-001	4/26/19	1145	water	8	5	X	X	X								
3	WW-20190426-K29120-T2P-B-001	4/26/19	1205	water	8	5	X	X	X								
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Valerie Phipps VLJPL

Shipment Method: hand delivery

Required Turnaround Time: (Check Box) ☐ Other _____ ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
VLJPL	4/26/19	1723	
Relinquished by:	Date:	Time:	Received by (Laboratory):
			R Gige 4/26/19 17:23
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
RED	4-9c
1R25	
450	

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other _____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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Chain of Custody Form

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COC ID: 144030

HS19041558

Cardno
Deer Park Fire

ALS Project Manager:

Customer Information		Project Information			
Purchase Order	Cardno	Project Name	Deer Park Fire	A	RCI
Work Order		Project Number		B	TCLP Metals - TX12
Company Name		Bill To Company	ITC	C	TCLP Herbicides
Send Report To		Invoice Attn		D	TCLP Pesticides
Address		Address	1030 Ethyl Rd Command Center	E	TCLP VOCs
				F	TCLP SVOCs
City/State/Zip		City/State/Zip	Pasadena TX	G	
Phone		Phone		H	
Fax		Fax		I	
e-Mail Address		e-Mail Address	lori.stone@cardno.com	J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	WW-20190426-K29120-T2P-B-001	4/26/19	1205	water	8	2			X	X							
2	WW-20190426-MSRC570-T4S-M-001	4/26/19	1245	water	8	4			X	X		X					
3	WW-20190426-MSRC570-T4S-B-001	4/26/19	1305	water	8	4			X	X		X					
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Valerie Ph.pps Val PL

Shipment Method: hand delivered

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☐ 5 Wk Days ☒ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by: Val PL. Date: 4/26/19 Time: 1724

Received by:

Relinquished by: Date: Time:

Received by (Laboratory): R Cisa 4/26/19 17-24.

Logged by (Laboratory): Date: Time:

Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	UC
BLUE	5-4c
1R25	
CF-0	

QC Package: (Check One Box Below)
☐ Level II Std QC
☐ Level III Std QC/Raw Date
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

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