Gage, Hannah

From: Gilliam, Allen

Sent: Tuesday, March 01, 2016 3:25 PM

To: 'Wages Jeff'

Cc: Cummins Jon; Arnold Anthony; Gage, Hannah; McWilliams, Clark

Subject: AR0043389_United Initiators ARP001013 Feb 2016 semi annual Pretreatment report

and indeterminate compliance_20160301

Attachments: CFR 414 semi annual report United Initiators 1601.pdf; Certification Statement United

Initiators 1602.pdf; United Initiators SPI Inc 15-272-0281 20151012 report_far_ 3677428-371.pdf; United Initiators SPI Inc 15-350-0207 20151230 report_far_

3796586-374.pdf; Wastewater Composite SOP 1602.pdf

Jeff,

United Initiator's February 2016 semi-annual Pretreatment report was electronically received, reviewed and deemed complete with the reporting requirements in 40 CFR 403.12(e).

Compliance with almost half the Federally regulated parameters using method 625 could not be determined apparently because of matrix interference causing your contract lab to dilute those samples by 50 times to "find" a detection level higher than those parameters' CFR 414.111 limits. It's advised to consult with your lab to determine what might be causing the interference and determine how to address this problem.

Thank you for the providing the calculations showing the compositing procedures for compliance with the Zn and Pb limitations. Please continue submission of these calculations in the future.

Sincerely,

Allen Gilliam
ADEQ State Pretreatment Coordinator
501.682.0625

ec: Terry McGinister, Helena General Manager

E/NPDES/NPDES/Pretreatment/Reports

From: Wages Jeff [mailto:Jeff.Wages@united-in.com]

Sent: Thursday, February 25, 2016 8:31 AM

To: Gilliam, Allen

Cc: Cummins Jon; Arnold Anthony

Subject: United Initiators Wastewater Report February 2016

Dear Mr. Gilliam,

In accordance with 40 CFR Part 403.12(e) industrial users with processes regulated by categorical pretreatment standards (40 CFR Part 414, et al), please find attached our most recent monitoring report for the wastewater discharged from the United Initiators, Inc. facility in Helena, Arkansas. Also attached are two sets of wastewater analytical results and some supplemental information.

Please contact me by phone at 870.572.2935 ext. 307 or by e-mail at jeff.wages@united-in.com if you have any questions or require additional information regarding this report.

Best Regards,

Jeff Wages

Regulatory Manager

Phone : +1 (870) 572-3297 Ext. 307

Fax: +1 (870) 572-1416
Mobile: +1 (870) 995-3443
jeff.wages@united-in.com

UNITED INITIATORS, INC 334 Phillips 311 Road Helena, AR 72342

SEMI-ANNUAL REPORT FOR INDUSTRIAL USERS REGULATED BY 40 CFR 414 Return to: Water Div/NPDES Pretreatment (1) IDENTIFYING INFORMATION B. FACILITY & LOCATION ADDRESS A. LEGAL NAME & MAILING ADDRESS United Initiators, Inc. United Initiators, Inc. 334 Phillips 311 Road 334 Phillips 311 Road Helena, AR 72342-9033 Helena, AR 72342-9033 TELEPHONE NUMBER: 870.572.2935 x307 Jeff Wages C. FACILITY CONTACT: e-mail address <u>jeff.wages@united-in.com</u> (2) REPORTING PERIOD A. MONTHS WHICH REPORTS ARE DUE B. PERIOD COVERED BY THIS REPORT FROM: August 2015 TO: February 2016 February & August (3) DESCRIPTION OF OPERATION B. CHANGES: SUMMARIZE ANY CHANGES IN THE REGULATED PROCESSES SINCE THE LAST REPORT. ATTACH AN ADDITIONAL SHEET IF THE SPACE BELOW IS INADEQUATE. A. REGULATED PROCESSES PROVIDE A NEW SCHEMATIC IF APPROPRIATE. CORE PROCESS(ES) Specify Category and Sub-Categor(ies) Check each applicable Subpart 9 Subpart A--General Subpart B--Rayon Fibers Subpart C--Other Fibers Subpart D--Thermoplastic Resins Subpart E--Thermosetting Resins Subpart F--Commodity Organic Chemicals Subpart G--Bulk Organic Chemicals C. Number of Regular Employees at this Facility 49 Subpart H--Specialty Organic Chemicals (4) FLOW MEASUREMENT A. Total Plant Flow to POTW in Gallons per Day

Maximum: <u>85,303</u>

gpd

Average:

67,388

____ gpd

40CFR414 SEMI-ANNUAL REPORT CON'D FACILITY NAME: (4) FLOW MEASUREMENT (CON'D) B. INDIVIDUAL PROCESS FLOWS IN GALLONS PER DAY Type of Discharge Process Average Maximum Flow Rate (gpd) Flow Rate (gpd) (Batch, etc) Batch & continuous Regulated 66,568 84,265 Unregulated* Cooling Water **Sanitary 820 1,037 *"Unregulated" has a precise legal meaning; see 40CFR403.6(e). (5) MEASUREMENT OF POLLUTANTS B. COMMENTS A. TYPE OF TREATMENT SYSTEM CHECK EACH APPLICABLE BLOCK Two aerated ponds with a total surface area of ~6.5 acres. ** Sanitary plus dilution from rain water equals ~0.92. G Neutralization G Chemical Precipitation and Sedimentation ☑ Biological G Cyanide Destruction

C. THE INDUSTRIAL USER MUST PERFORM SAMPLING AND ANALYSIS ON THE EFFLUENT FROM ALL REGULATED PROCESSES--CORE & ANCILLARY--(AFTER TREATMENT, IF APPLICABLE). ATTACH THE LAB ANALYSIS WHICH SHOWS A MAXIMUM; TABULATE ALL THE ANALYTICAL DATA COLLECTED DURING THE REPORT PERIOD. ZERO CONCENTRATIONS ARE NOT ACCEPTABLE; LIST THE DETECTION LIMIT IF CONCENTRATION WAS BELOW DETECTION LIMIT.

CFR 414	PSES and PSNS L	imits (ug/l)		
Effluent characteristics	**Max for any 1 day	**Max for any monthly avg	Measured Max for any 1 day (ug/l)	Measured Max for any <u>monthly</u> avg (ug/l)
Acenaphthene	44	18	<400	<400
Anthracene	44	18	<400	<400
Benzene	124	53	1.78	1.78
Bis(2-ethylhexyl) phthalate	240	88	<2000	<2000
Carbon Tetrachloride	353	132	<1.00	<1.00
Chlorobenzene	353	132	<1.00	<1.00
Chloroethane	274	102	<1.00	<1.00
Chloroform	302	103	<1.00	<1.00
Di-n-butyl phthalate	40	19	<1000	<1000
1,2-Dichlorobenzene	737	182	<1000	<1000
1,3-Dichlorobenzene	353	132	<1000	<1000
1,4-Dichlorobenzene	353	132	<1000	<1000
1,1-Dichloroethane	55	20	<1.00	<1.00
1,2-Dichloroethane	533	167	<1.00	<1.00

G Other G None

40CFR414 SEMI-ANNUAL REPORT CON'D FACILITY NAME:

40CFR414 SEMI-ANNUAL REPORT CO	DN'D FACILITY NA	AIVIE:		
1,1-Dichloroethylene	56	20	<1.00	<1.00
1,2-trans-Dichloroethylene	61	23	<1.00	<1.00
1,2-Dichloropropane	737	182	<1.00	<1.00
1,3-Dichloropropylene	737	182	<1.00	<1.00
Diethyl phthalate	105	43	<1000	<1000
Dimethyl phthalate	44	18	<1000	<1000
4,6-Dinitro-o-cresol	257	72	<2000	<2000
Ethylbenzene	353	132	<1.00	<1.00
Fluoranthene	50	20	<400	<400
Fluorene	44	18	<400	<400
Hexachlorobenzene	737	182	<1000	<1000
Hexachlorobutadiene	353	132	<1000	<1000
Hexachloroethane	737	182	<1000	<1000
Methyl Chloride	274	102	<1.00	<1.00
Methylene Chloride	158	33	<10.0	<10.0
Naphthalene	44	18	<400	<400
Nitrobenzene	5,945	2,077	<1000	<1000
2-Nitrophenol	214	60	<1000	<1000
4-Nitrophenol	535	150	<4000	<4000
Phenanthrene	44	18	<400	<400
Pyrene	45	19	<400	<400
Tetrachloroethylene	152	48	<1.00	<1.00
Toluene	69	26	<5.00	<5.00
Total Cyanide	1,114	390	<5.00	<5.00
Total Lead	57.6	57.6	1.11	1.11
Total Zinc ²	134.4	134.4	31.8	31.8
1,2,4-Trichlorobenzene	737	182	<1000	<1000
1,1,1-Trichloroethane	55	20	<1.00	<1.00
1,1,2-Trichloroethane	118	30	<1.00	<1.00
Trichloroethylene	64	24	<1.00	<1.00
Vinyl Chloride	160	90	<1.00	<1.00

40CFR414 SEMI-ANNUAL REPORT CON'D FACILITY NAME: (7) GENERAL COMMENTS See attached procedure used for sampling and compositing waste water samples taken from the three United Initiators, Inc. processes to be analyzed for lead and zinc. ETC Report Number15-350-0207 analysis results correspond to the waste water sample taken utilizing this procedure. United Initiators' analytical service provider offered the following comments regarding the interference present in the wastewater samples that prevented the achievement of more accurate lab analysis results: The last sample submitted for testing (L 93549) was diluted at a 1:50 dilution due to the presence of benzoic acid. The concentration present in the sample was 13,300 ug/L. Analyzing such a sample without a dilution could damage the mass spectrometer and at the very least would provide unusable results due to the resulting interference with internal standards. We are not aware of any step to remove the interference. (8) SIGNATORY REQUIREMENTS I certify under penalty of law that I have personally examined and am familiar with the information in this semiannual compliance report and all attachments, and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the report, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

OFFICIAL TITLE

Jon Cummins

Vice President of Operations

NAME OF CORPORATE OFFICER OR AUTHORIZED REPRESENTATIVE



United Initiators, Inc.

334 Phillips 311 Road Industrial Park Road Helena, Arkansas 72342-9033 Customer Service: (800) 786-6722 Customer Service Fax: (800) 987-0845

Phone: (870) 572-2935

Fax: (870) 572-1416

2/2/2016

Allen Gilliam
ADEQ State Pretreatment Coordinator
Water Division
5301 Northshore Drive
North Little Rock, Arkansas 72118-5317

Dear Mr. Gilliam:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Jon Gummins

Vice President of Operations







10/12/2015

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton, AR, 72018

Ref: **Analytical Testing**

Lab Report Number: 15-272-0281

Client Project Description: United Initiators, SPI, Inc.

Semi-annual Sampling

Dear Ms. Mia Dixon:

Waypoint Analytical, Inc. received sample(s) on 9/29/2015 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randy Thomas **Project Manager**

Rendell H. Thomas

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



Client: Rineco Analytical Services Project: United Initiators, SPI, Inc.

Lab Report Number: 15-272-0281

Date: 10/12/2015

CASE NARRATIVE

Metals Analyses Method EPA-200.8

Sample 93549 (Composite 9/28-29/15)

Analyte: K

QC Batch No: L258211

MS/MSD Recovery failed, PDS confirmed matrix interference

Analyte: Na

QC Batch No: L258550

MS/MSD Recovery failed, DT confirmed matrix interference

Semivolatile Organic Compounds - GC/MS Method EPA-625

Analyte: Benzidine QC Batch No: L259115

Analyte was flagged for 0% recovery in the LCS and/or LCSD due to the result being below the MQL. The actual

result was 17.3 ug/L which calculates to a recovery of 17.3%.

Sample 93549 (Composite 9/28-29/15)

QC Batch No: L259115

Sample requires dilution due to high levels of target and/or non-target analytes.

QC Batch No: L259115

Surrogate(s) flagged for recovery outside QC limits in this project sample due to a required dilution. The dilution factor resulted in surrogate concentration(s) below the minimum detectable level. Batch QC samples (method blank and laboratory control samples) all showed surrogates within QC limits.

Extraction and Conc. for 625 Method EPA-625 (PREP)

QC Batch No: L258323

The weight/volume extracted was reduced during the extraction procedure due to the nature of the sample.

Reporting limits are factored for the sample size reduction.



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton , AR 72018

Project United Initiators, SPI, Inc. Information: Semi-annual Sampling

Report Date: 10/12/2015

Received: 9/29/2015

Report Number: 15-272-0281 REPORT OF ANALYSIS

Lab No : 93548 Matrix: Aqueous

Sample ID : **Grab** Sampled: **9/29/2015 11:25**

Test	Results	Units	MQL		Date / Time By Analyzed		Analytical Method
Cyanide, Total	<5.00	μg/L	5.00	1	09/30/15 10:58	EWB	4500CNE-2011

Qualifiers/ Definitions * Outside QC limit MQL Method Quantitation Limit DF



05424

Rineco Analytical Services Ms. Mia Dixon

P O Box 729 Benton , AR 72018 Project United Initiators, SPI, Inc. Information: Semi-annual Sampling

Report Date: 10/12/2015

Received: 9/29/2015

Report Number: 15-272-0281 REPORT OF ANALYSIS

Lab No : 93548 Matrix: Aqueous

Sample ID : **Grab** Sampled: **9/29/2015 11:25**

Analytical Method:	624							
Prep Method:	EPA-624 (PREP)		Prep Batch(es):	L258439	Date/Ti	me Prepped:	10/2/2	2015 08:00:00
Test		Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Benzene		1.78	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Carbon Tetrachloride		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Chlorobenzene		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Chloroethane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Chloroform		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Methyl Chloride		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,1-Dichloroethane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,2-Dichloroethane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,1-Dichloroethylene		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,2-trans-Dichloroethy	rlene	<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,2-Dichloropropane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
cis-1,3-Dichloroproper	ne	<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
trans-1,3-Dichloroprop	ene	<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,3-Dichloropropylene		<1.00	μg/L	1.00	1	10/02/15 19:15		L258440
Ethylbenzene		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Methylene Chloride		<10.0	μg/L	10.0	1	10/02/15 19:15	HAL	L258440
Tetrachloroethylene		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Toluene		<5.00	μg/L	5.00	1	10/02/15 19:15	HAL	L258440
1,1,1-Trichloroethane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
1,1,2-Trichloroethane		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440
Trichloroethylene		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440

Qualifiers/ Definitions Outside QC limit

MQL Method Quantitation Limit

DF



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729

Benton, AR 72018

Report Date: 10/12/2015 ect United Initiators, SPI, Inc. Received: 9/29/2015

Project United Initiators, SPI, Inc Information: Semi-annual Sampling

Report Number: 15-272-0281 REPORT OF ANALYSIS

Lab No: 93548 Matrix: Aqueous

Sample ID : **Grab** Sampled: **9/29/2015 11:25**

Analytical Method: 624 Prep Method: EPA-624 (PREP)		Prep Batch(es):		L258439	Date/1	Time Prepped:	10/2/20	10/2/2015 08:00:00	
Test		Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch	
Vinyl Chloride		<1.00	μg/L	1.00	1	10/02/15 19:15	HAL	L258440	
Surrogate: 4-B	romofluorobenzene		89.8	Limits: 71-131	%	1 10/02/15 19:	15 HAL	L258440	
Surrogate: Dib	romofluoromethane		93.8	Limits: 70-128	1%	1 10/02/15 19:	15 HAL	L258440	
Surrogate: 1,2	-Dichloroethane - d4		79.8	Limits: 67-136	%	1 10/02/15 19:	15 HAL	L258440	
Surrogate: Tol	uene-d8		93.6	Limits: 70-130	1%	1 10/02/15 19:	15 HAL	L258440	

Qualifiers/ Definitions Outside QC limit

MQL Method Quantitation Limit

DF



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton , AR 72018

Project United Initiators, SPI, Inc. Information: Semi-annual Sampling

Report Date: 10/12/2015

Received: 9/29/2015

Report Number : 15-272-0281 REPORT OF ANALYSIS

Lab No : 93549 Matrix: Aqueous

Sample ID : **Composite 9/28-29/15** Sampled: **9/29/2015 0:00**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Total Lead	0.961	μg/L	0.500	1	10/02/15 00:22	CGC	EPA-200.8
Total Zinc	48.9	μg/L	5.00	1	10/02/15 00:22	CGC	EPA-200.8

Qualifiers/ Definitions * Outside QC limit MQL Method Quantitation Limit DF



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton , AR 72018

Project United Initiators, SPI, Inc. Information: Semi-annual Sampling

Report Date: 10/12/2015

Received: 9/29/2015

Report Number: 15-272-0281 REPORT OF ANALYSIS

Lab No: 93549 Matrix: Aqueous

Sample ID : **Composite 9/28-29/15** Sampled: **9/29/2015 0:00**

Analytical Method: 625							
Prep Method: 625	Pre	ep Batch(es):	L258323	Date/T	ime Prepped:	10/2/2	015 14:00:00
Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
Acenaphthene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Anthracene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Bis(2-ethylhexyl)phthalate	<2000	μg/L	2000	50	10/07/15 20:59	RQE	L259115
1,2-Dichlorobenzene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
1,3-Dichlorobenzene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
1,4-Dichlorobenzene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Diethyl phthalate	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Dimethyl phthalate	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Di-n-butyl phthalate	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
4,6-Dinitro-o-cresol	<2000	μg/L	2000	50	10/07/15 20:59	RQE	L259115
Fluoranthene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Fluorene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Hexachlorobenzene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Hexachlorobutadiene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Hexachloroethane	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Naphthalene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Nitrobenzene	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
2-Nitrophenol	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
4-Nitrophenol	<4000	μg/L	4000	50	10/07/15 20:59	RQE	L259115
Phenanthrene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115
Pyrene	<400	μg/L	400	50	10/07/15 20:59	RQE	L259115

Qualifiers/ Definitions Outside QC limit

MQL Method Quantitation Limit

DF



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729

Benton, AR 72018

Project United Initiators, SPI, Inc. Information: Semi-annual Sampling

Report Date: 10/12/2015

Received: 9/29/2015

Report Number : 15-272-0281 REPORT OF ANALYSIS

Lab No : 93549 Matrix: Aqueous

Sample ID : **Composite 9/28-29/15** Sampled: **9/29/2015 0:00**

Analytical Method: Prep Method:	625 625	ı	Prep Batch(es): L258323		Date/T	ime Prepped:	10/2/20	15 14:00:00
Test		Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Batch
1,2,4-Trichlorobenzene	2	<1000	μg/L	1000	50	10/07/15 20:59	RQE	L259115
Surrogate: 2-F	luorobiphenyl		23.3 *	Limits: 38-107	%	50 10/07/15 20:	59 RQE	L259115
Surrogate: 2-F	luorophenol		13.0	Limits: 8-88%	!	50 10/07/15 20:	59 RQE	L259115
Surrogate: Nitr	robenzene-d5		22.6 *	Limits: 29-105	%	50 10/07/15 20:	59 RQE	L259115
Surrogate: Phe	enol-d6		10.1	Limits: 7-58%	!	50 10/07/15 20:	59 RQE	L259115
Surrogate: 4-T	erphenyl-d14		38.5	Limits: 30-130	%	50 10/07/15 20:	59 RQE	L259115
Surrogate: 2,4	,6-Tribromophenol		24.6	Limits: 16-138	%	50 10/07/15 20:	59 RQE	L259115

Qualifiers/ Definitions Outside QC limit

MQL Method Quantitation Limit

DF



Cooler Receipt Form

Customer Number: 05424

Customer Name: Rineco Analytical Services

Report Number: 15-272-0281

Shipping Method

		Silipp	ing Method			
○ Fed Ex	US Postal	Lab)	Other:		
UPS	Client	O Cou	urier	Thermometer ID:	#6	
Shipping contain	er/cooler uncompron	nised?	Yes	○ No		
Number of coole	rs received		1			
Custody seals in	tact on shipping cont	ainer/cooler	? Yes	○ No	● Not Re	equired
Custody seals in	tact on sample bottle	s?	O Yes	○ No	● Not Re	equired
Chain of Custody	/ (COC) present?		Yes	○ No		
COC agrees with	sample label(s)?		Yes	○ No		
COC properly co	mpleted		Yes	○ No		
Samples in prop	er containers?		Yes	○ No		
Sample containe	rs intact?		Yes	○ No		
Sufficient sample	e volume for indicated	d test(s)?	Yes	○ No		
All samples rece	ived within holding tir	ne?	Yes	○ No		
Cooler temperate	ure in compliance?		Yes	○ No		
	arrived at the laborat onsidered acceptable un.		Yes	○ No		
Water - Sample	containers properly p	reserved	Yes	○ No	○ N/A	
Water - VOA vial	s free of headspace		O Yes	○ No	● N/A	
Trip Blanks recei	ved with VOAs		O Yes	○ No	● N/A	
Soil VOA method	1 5035 – compliance	criteria met	O Yes	○ No	● N/A	
High concent	ration container (48 h	nr)	☐ Lo	w concentration EnC	ore samplers (4	18 hr)
High concent	ration pre-weighed (r	nethanol -14	ld) 🗌 Lo	w conc pre-weighed	vials (Sod Bis -	14 d)
Special precaution	ons or instructions in	cluded?	O Yes	● No		
Comments:	gulatory non-complia	nce issues v	vill be record	ed on non-complian	ce report.	
Signatu	ire: Danyale Love		Date	& Time: 09/29/201	5 14:30:57	



CHAIN-OF-CUSTODY

		Project Commment	
neco Analytica) Services nited Initiators, SPI, Inc.	15-272-0281 05424 09-29-2015 14:30:48		
made minding SPI Inc	17.30.40		

Company N	lame		Separation 8		Client I	Project	Manager/Contact		Purchase	Order Number		
Rineço Analy	rtical Services		05424		Rineco A	Analytic	al Services					
Site Name			Project Number			u salala	16 I -l I		Method of Shipment			
1					_		itional charges apply		Fed E	Fed Ex UPS USPS		
			Ì		Spe	cial Dete	ection Limits(s)		Couris	er Client Drop Off		
United Initia	tors, SPI, Inc.		}		Date R	esults N	eeded		Other			
LIMS Project	ct ID		Project Manager Phone	#	Project	Manag	ger Email		Site/Faci	lity ID #		
Rineco - Sen	ni-annual		(501) 778-9089									
Date	Time		Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Pres	ervation	Analyses		
9.29.15	1125	Grab		Aqueous	G	3	Glass Vial Amber - 40ml	Hyd	HCL- rochloric Acid	VOC		
1	1	Grab		Aqueous	G	1	Plastic - Pint		l - Sodium droxide	CNT		
92915	ستيد ا	Composit	te	Aqueous	С	1	Plastic - Pint		3 - Nitric Acid	Pb/Zn		
1	+	Composit	te	Aqueous	c	2	Glass Amber - Liter	S	2S2O3 - odium osulfate	SVOC		

	For Laborat	ory Use Only	Sampled by (Name - Print)	Client	Remarks	/Comments		
ice	Custody	Lab Comments	dus tollasts					
-	Seals		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
CYLIN	Y/N							
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time
Blank/Co	oler Temp							
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1-1	·C				7/5	1000	9 à	7.15
						/ /		



12/30/2015

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton, AR, 72018

Ref: **Analytical Testing**

Lab Report Number: 15-350-0207

Client Project Description: United Initiators, SPI, Inc.

Dear Ms. Mia Dixon:

Waypoint Analytical, Inc. received sample(s) on 12/16/2015 for the analyses presented in the following report.

The above referenced project has been analyzed per your instructions. The analyses were performed in accordance with the applicable analytical method.

The analytical data has been validated using standard quality control measures performed as required by the analytical method. Quality Assurance, method validations, instrumentation maintenance and calibration for all parameters (NELAP and non-NELAP) were performed in accordance with guidelines established by the USEPA (including 40 CFR 136 Method Update Rule May 2012) and NELAC unless otherwise indicated. Any parameter for which the laboratory is not officially NELAP accredited is indicated by a '~' symbol. These are not included in the scope because NELAP accreditation is either not available or has not been applied for. Additional certifications may be held/are available for parameters, where NELAP accreditation is not required or applicable. A full list of certifications is available upon request.

Certain parameters (chlorine, pH, dissolved oxygen, sulfite...) are required to be analyzed within 15 minutes of sampling. Usually, but not always, any field parameter analyzed at the laboratory is outside of this holding time. Refer to sample analysis time for confirmation of holding time compliance.

The results are shown on the attached Report of Analysis(s). Results for solid matrices are reported on an asreceived basis unless otherwise indicated. This report shall not be reproduced except in full and relates only to the samples included in this report.

Please do not hesitate to contact me or client services if you have any questions or need additional information.

Sincerely,

Randy Thomas

Project Manager

Rendell H. Thomas

Laboratory's liability in any claim relating to analyses performed shall be limited to, at laboratory's option, repeating the analysis in question at laboratory's expense, or the refund of the charges paid for performance of said analysis.



05424

Rineco Analytical Services Ms. Mia Dixon P O Box 729 Benton , AR 72018

Project United Initiators, SPI, Inc.

Information:

Report Date: 12/30/2015

Lab No: 90733 Matrix: Aqueous

Sample ID: **Effluent** Sampled: **12/15/2015 7:30**

Test	Results	Units	MQL	DF	Date / Time Analyzed	Ву	Analytical Method
Total Lead	1.11	μg/L	0.500	1	12/28/15 19:41	JTR	EPA-200.8
Total Zinc	31.8	μg/L	5.00	1	12/28/15 19:41	JTR	EPA-200.8

Qualifiers/ Definitions

DF

Dilution Factor

MQL

Method Quantitation Limit



Cooler Receipt Form

Customer Number: 05424 Customer Name: **Rineco Analytical Services** 15-350-0207 Report Number: **Shipping Method** Fed Ex **US Postal** Lab Other: UPS Client Courier Thermometer ID: NA Yes () No Shipping container/cooler uncompromised? Number of coolers received 1 Custody seals intact on shipping container/cooler? Yes No Not Required Yes No Not Required Custody seals intact on sample bottles? Chain of Custody (COC) present? Yes No Yes No COC agrees with sample label(s)? COC properly completed Yes No Samples in proper containers? Yes No Sample containers intact? Yes No Sufficient sample volume for indicated test(s)? Yes No All samples received within holding time? Yes No Yes No Cooler temperature in compliance? Cooler/Samples arrived at the laboratory on ice. Yes No Samples were considered acceptable as cooling process had begun. Water - Sample containers properly preserved Yes No N/A Water - VOA vials free of headspace Yes No N/A N/A Yes No Trip Blanks received with VOAs Yes No N/A Soil VOA method 5035 – compliance criteria met Low concentration EnCore samplers (48 hr) High concentration container (48 hr) High concentration pre-weighed (methanol -14 d) Low conc pre-weighed vials (Sod Bis -14 d) Special precautions or instructions included? Yes No Comments:

Any regulatory non-compliance issues will be recorded on non-compliance report.

Signature: Danyale Love Date & Time: 12/16/2015 09:02:06



CHAIN-OF-CUSTODY

Kit ID:

0000056322 Initiated By: Kenny Mulligan

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o Analytical Services United Initiators, SPI, Inc.

15-350-0207 05424 12-16-2015 09:00:54

Company Name Rineco Analytical Services 05424 Site Name Project Number United Initiators, SPI, Inc. LIMS Project ID Project Manager Phone			Client Project Manager/Contact				Purchase Order Number		
			Unitied InitiatorsAttn: Jeff Wages						
			* 1	RUSH – Additional charges apply Special Detection Limits(s) Date Results Needed				Method of Shipment Fed Ex UPS USPS Courier Client Drop Off Other	
		Project Manager Ph	Project Manager Phone #		Project Manager Email				Site/Facility ID #
		(501) 778-9089							
Date	Time	Sample ID	Matrix	Grab/ Comp	# of Cont	Container Type	Pres	servation	Analyses
12/19/5	0250	Composite	Aqueous	С	1	Plastic - Pint	HNO3 - Nitric Acid		Pb/Zn

For Laboratory Use Only			Sampled by (Name - Print)	Client Remarks/Comments						
Ice	Custody	Lab Comments		j .						
	Seals		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time		
Y/N	Y/N									
			Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time		
Blank/Co	ooler Temp									
NI	A		Relinquished by: (SIGNATURE)	Date	Time	Received by: (SIGNATURE)	Date	Time		



United Initiators, Inc.

334 Phillips 311 Road Industrial Park Road Helena, Arkansas 72342-9033 Customer Service: (800) 786-6722 Customer Service Fax: (800) 987-0845

> Phone: (870) 572-2935 Fax: (870) 572-1416

Procedure for determining percent of each process for composite sample to be analyzed for lead and zinc

The amount/percent of waste water from each of the three United Initiators' process water samples to be contributed to the composite sample of all three processes was determined by dividing the average daily discharge of each process by the total average daily discharge of the entire facility.

	February	2016 Report	t				
Composite sample by percent of process wastewater for zinc and lead analysis							
Process	ВРО	MEKP	MIBKP	Total			
Average GPD	41,672	24,697	199	66,568			
% of Total	0.626	0.371	0.003				

Compositing Procedure

Three sample containers are used to collect 500 milliliters of waste water from each of the three United Initiators' processes. One container is used for each separate process. Each container is labeled with the process name from which it was taken, i.e., BPO, MIBKP, and MEKP.

The three waste water samples are taken to the R&D Lab. 313 milliliters of the BPO process waste water sample are placed into the composite sample container. 185.5 milliliters of the MEKP process waste water sample is placed into the composite sample container. 1.5 milliliters of the MIBKP waste water sample is placed into the composite sample container. The composite sample container is sealed and shipped to United Initiators' analytical service provider for analysis.



