

**SPRU EEC-20-001
RCRA ICM REPORT FOR SPRU FACILITY**

**Attachment 11
Phase 1 Backfill Supporting Chemical Analyses**

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Volatile Analysis

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-1	Project:	URSC00211
Sample ID:	432865001	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.62%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50	JP1	09/22/17	1519	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.0	51.9	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,4-Dioxane	U	ND	866	2600	ug/kg	0.980	50					
2-Butanone	U	ND	86.6	260	ug/kg	0.980	50					
2-Hexanone	U	ND	86.6	260	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	86.6	260	ug/kg	0.980	50					
Acetone	U	ND	86.6	260	ug/kg	0.980	50					
Benzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromoform	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromomethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Carbon disulfide	U	ND	86.6	260	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.3	51.9	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloroform	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Cyclohexane	U	ND	17.3	51.9	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Methyl acetate	U	ND	86.6	260	ug/kg	0.980	50					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-1	Project: URSC00211
Sample ID: 432865001	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.3	51.9	ug/kg	0.980	50					
Methylene chloride	U	ND	86.6	260	ug/kg	0.980	50					
Styrene	U	ND	17.3	51.9	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
Toluene	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	86.6	260	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.3	51.9	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.3	51.9	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.6	104	ug/kg	0.980	50					
o-Xylene	U	ND	17.3	51.9	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.3	51.9	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.3	51.9	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1132	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2470 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2540 ug/kg	50.0	98	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2490 ug/kg	50.0	96	(81%-120%)

Notes:

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Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-1

Sample ID: 432865001

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-2	Project:	URSC00211
Sample ID:	432865002	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.46%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50	JP1	09/22/17	1547	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	25.9	51.9	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.3	51.9	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
1,4-Dioxane	U	ND	86.4	259.0	ug/kg	0.980	50					
2-Butanone	U	ND	86.4	259	ug/kg	0.980	50					
2-Hexanone	U	ND	86.4	259	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	86.4	259	ug/kg	0.980	50					
Acetone	U	ND	86.4	259	ug/kg	0.980	50					
Benzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromoform	U	ND	17.3	51.9	ug/kg	0.980	50					
Bromomethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Carbon disulfide	U	ND	86.4	259	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.3	51.9	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloroethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloroform	U	ND	17.3	51.9	ug/kg	0.980	50					
Chloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Cyclohexane	U	ND	17.3	51.9	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.3	51.9	ug/kg	0.980	50					
Methyl acetate	U	ND	86.4	259	ug/kg	0.980	50					

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Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-2	Project: URSC00211
Sample ID: 432865002	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.3	51.9	ug/kg	0.980	50					
Methylene chloride	U	ND	86.4	259	ug/kg	0.980	50					
Styrene	U	ND	17.3	51.9	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
Toluene	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.3	51.9	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	86.4	259	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.3	51.9	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.3	51.9	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.6	104	ug/kg	0.980	50					
o-Xylene	U	ND	17.3	51.9	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.3	51.9	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.3	51.9	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.3	51.9	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1136	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2640 ug/kg	50.0	102	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2670 ug/kg	50.0	103	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2630 ug/kg	50.0	101	(81%-120%)

Notes:

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Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-2

Sample ID: 432865002

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-3	Project: URSC00211
Sample ID: 432865003	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 6.13%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.4	52.2	ug/kg	0.980	50	JP1	09/22/17	1615	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.1	52.2	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.4	52.2	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
1,4-Dioxane	U	ND	870	2610	ug/kg	0.980	50					
2-Butanone	U	ND	87.1	261	ug/kg	0.980	50					
2-Hexanone	U	ND	87.1	261	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	87.1	261	ug/kg	0.980	50					
Acetone	U	ND	87.1	261	ug/kg	0.980	50					
Benzene	U	ND	17.4	52.2	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Bromoform	U	ND	17.4	52.2	ug/kg	0.980	50					
Bromomethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Carbon disulfide	U	ND	87.1	261	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.4	52.2	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
Chloroethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Chloroform	U	ND	17.4	52.2	ug/kg	0.980	50					
Chloromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Cyclohexane	U	ND	17.4	52.2	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.4	52.2	ug/kg	0.980	50					
Methyl acetate	U	ND	87.1	261	ug/kg	0.980	50					

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Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-3	Project: URSC00211
Sample ID: 432865003	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.4	52.2	ug/kg	0.980	50					
Methylene chloride	U	ND	87.1	261	ug/kg	0.980	50					
Styrene	U	ND	17.4	52.2	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.4	52.2	ug/kg	0.980	50					
Toluene	U	ND	17.4	52.2	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.4	52.2	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.4	52.2	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	87.1	261	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.4	52.2	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.4	52.2	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.4	52.2	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.8	104	ug/kg	0.980	50					
o-Xylene	U	ND	17.4	52.2	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.4	52.2	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.4	52.2	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.4	52.2	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1137	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2500 ug/kg	50.0	96	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2570 ug/kg	50.0	98	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2500 ug/kg	50.0	96	(81%-120%)

Notes:

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Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-3

Sample ID: 432865003

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-4	Project:	URSC00211
Sample ID:	432865004	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.88%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.3	52.1	ug/kg	0.980	50	JP1	09/22/17	1643	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.0	52.1	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.3	52.1	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
1,4-Dioxane	U	ND	86.8	2600	ug/kg	0.980	50					
2-Butanone	U	ND	86.8	260	ug/kg	0.980	50					
2-Hexanone	U	ND	86.8	260	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	86.8	260	ug/kg	0.980	50					
Acetone	U	ND	86.8	260	ug/kg	0.980	50					
Benzene	U	ND	17.3	52.1	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Bromoform	U	ND	17.3	52.1	ug/kg	0.980	50					
Bromomethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Carbon disulfide	U	ND	86.8	260	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.3	52.1	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
Chloroethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Chloroform	U	ND	17.3	52.1	ug/kg	0.980	50					
Chloromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Cyclohexane	U	ND	17.3	52.1	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.3	52.1	ug/kg	0.980	50					
Methyl acetate	U	ND	86.8	260	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-4	Project: URSC00211
Sample ID: 432865004	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.3	52.1	ug/kg	0.980	50					
Methylene chloride	U	ND	86.8	260	ug/kg	0.980	50					
Styrene	U	ND	17.3	52.1	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.3	52.1	ug/kg	0.980	50					
Toluene	U	ND	17.3	52.1	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.3	52.1	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.3	52.1	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	86.8	260	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.3	52.1	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.3	52.1	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.3	52.1	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.7	104	ug/kg	0.980	50					
o-Xylene	U	ND	17.3	52.1	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.3	52.1	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.3	52.1	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.3	52.1	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1138	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2530 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2620 ug/kg	50.0	101	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2630 ug/kg	50.0	101	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-4

Sample ID: 432865004

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-5	Project:	URSC00211
Sample ID:	432865005	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	7.02%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.6	52.7	ug/kg	0.980	50	JP1	09/22/17	1711	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.4	52.7	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.6	52.7	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
1,4-Dioxane	U	ND	879	2640	ug/kg	0.980	50					
2-Butanone	U	ND	87.9	264	ug/kg	0.980	50					
2-Hexanone	U	ND	87.9	264	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	87.9	264	ug/kg	0.980	50					
Acetone	U	ND	87.9	264	ug/kg	0.980	50					
Benzene	U	ND	17.6	52.7	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Bromoform	U	ND	17.6	52.7	ug/kg	0.980	50					
Bromomethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Carbon disulfide	U	ND	87.9	264	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.6	52.7	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
Chloroethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Chloroform	U	ND	17.6	52.7	ug/kg	0.980	50					
Chloromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Cyclohexane	U	ND	17.6	52.7	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.6	52.7	ug/kg	0.980	50					
Methyl acetate	U	ND	87.9	264	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-5	Project: URSC00211
Sample ID: 432865005	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatiles Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.6	52.7	ug/kg	0.980	50					
Methylene chloride	U	ND	87.9	264	ug/kg	0.980	50					
Styrene	U	ND	17.6	52.7	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.6	52.7	ug/kg	0.980	50					
Toluene	U	ND	17.6	52.7	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.6	52.7	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.6	52.7	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	87.9	264	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.6	52.7	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.6	52.7	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.6	52.7	ug/kg	0.980	50					
m,p-Xylenes	U	ND	35.2	105	ug/kg	0.980	50					
o-Xylene	U	ND	17.6	52.7	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.6	52.7	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.6	52.7	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.6	52.7	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1139	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2480 ug/kg	50.0	94	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2550 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2540 ug/kg	50.0	96	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-5

Sample ID: 432865005

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-6	Project:	URSC00211
Sample ID:	432865006	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.92%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.5	52.7	ug/kg	0.980	50	JP1	09/22/17	1739	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.3	52.7	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.5	52.7	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
1,4-Dioxane	U	ND	878	2630	ug/kg	0.980	50					
2-Butanone	U	ND	87.8	263	ug/kg	0.980	50					
2-Hexanone	U	ND	87.8	263	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	87.8	263	ug/kg	0.980	50					
Acetone	U	ND	87.8	263	ug/kg	0.980	50					
Benzene	U	ND	17.5	52.7	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Bromoform	U	ND	17.5	52.7	ug/kg	0.980	50					
Bromomethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Carbon disulfide	U	ND	87.8	263	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.5	52.7	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
Chloroethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Chloroform	U	ND	17.5	52.7	ug/kg	0.980	50					
Chloromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Cyclohexane	U	ND	17.5	52.7	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.5	52.7	ug/kg	0.980	50					
Methyl acetate	U	ND	87.8	263	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-6	Project: URSC00211
Sample ID: 432865006	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.5	52.7	ug/kg	0.980	50					
Methylene chloride	U	ND	87.8	263	ug/kg	0.980	50					
Styrene	U	ND	17.5	52.7	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.5	52.7	ug/kg	0.980	50					
Toluene	U	ND	17.5	52.7	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.5	52.7	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.5	52.7	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	87.8	263	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.5	52.7	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.5	52.7	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.5	52.7	ug/kg	0.980	50					
m,p-Xylenes	U	ND	35.1	105	ug/kg	0.980	50					
o-Xylene	U	ND	17.5	52.7	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.5	52.7	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.5	52.7	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.5	52.7	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1140	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2530 ug/kg	50.0	96	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2610 ug/kg	50.0	99	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2560 ug/kg	50.0	97	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-6	Project:	URSC00211
Sample ID:	432865006	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-7	Project:	URSC00211
Sample ID:	432865007	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.26%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.8	53.3	ug/kg	1.00	50	JP1	09/22/17	1807	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.7	53.3	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.8	53.3	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
1,4-Dioxane	U	ND	889	2670	ug/kg	1.00	50					
2-Butanone	U	ND	88.9	267	ug/kg	1.00	50					
2-Hexanone	U	ND	88.9	267	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	88.9	267	ug/kg	1.00	50					
Acetone	U	ND	88.9	267	ug/kg	1.00	50					
Benzene	U	ND	17.8	53.3	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Bromoform	U	ND	17.8	53.3	ug/kg	1.00	50					
Bromomethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Carbon disulfide	U	ND	88.9	267	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.8	53.3	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
Chloroethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Chloroform	U	ND	17.8	53.3	ug/kg	1.00	50					
Chloromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Cyclohexane	U	ND	17.8	53.3	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.8	53.3	ug/kg	1.00	50					
Methyl acetate	U	ND	88.9	267	ug/kg	1.00	50					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-7	Project:	URSC00211
Sample ID:	432865007	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.8	53.3	ug/kg	1.00	50					
Methylene chloride	U	ND	88.9	267	ug/kg	1.00	50					
Styrene	U	ND	17.8	53.3	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.8	53.3	ug/kg	1.00	50					
Toluene	U	ND	17.8	53.3	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.8	53.3	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.8	53.3	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	88.9	267	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.8	53.3	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.8	53.3	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.8	53.3	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.6	107	ug/kg	1.00	50					
o-Xylene	U	ND	17.8	53.3	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.8	53.3	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.8	53.3	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.8	53.3	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1141	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2580 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2590 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2550 ug/kg	50.0	96	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-7	Project:	URSC00211
Sample ID:	432865007	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-8	Project:	URSC00211
Sample ID:	432865008	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.58%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.6	53.0	ug/kg	1.00	50	JP1	09/22/17	1835	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.5	53.0	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.6	53.0	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
1,4-Dioxane	U	ND	88.3	2650	ug/kg	1.00	50					
2-Butanone	U	ND	88.3	265	ug/kg	1.00	50					
2-Hexanone	U	ND	88.3	265	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	88.3	265	ug/kg	1.00	50					
Acetone	U	ND	88.3	265	ug/kg	1.00	50					
Benzene	U	ND	17.6	53.0	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Bromoform	U	ND	17.6	53.0	ug/kg	1.00	50					
Bromomethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Carbon disulfide	U	ND	88.3	265	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.6	53.0	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
Chloroethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Chloroform	U	ND	17.6	53.0	ug/kg	1.00	50					
Chloromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Cyclohexane	U	ND	17.6	53.0	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.6	53.0	ug/kg	1.00	50					
Methyl acetate	U	ND	88.3	265	ug/kg	1.00	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-8	Project: URSC00211
Sample ID: 432865008	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatiles Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.6	53.0	ug/kg	1.00	50					
Methylene chloride	U	ND	88.3	265	ug/kg	1.00	50					
Styrene	U	ND	17.6	53.0	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.6	53.0	ug/kg	1.00	50					
Toluene	U	ND	17.6	53.0	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.6	53.0	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.6	53.0	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	88.3	265	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.6	53.0	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.6	53.0	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.6	53.0	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.3	106	ug/kg	1.00	50					
o-Xylene	U	ND	17.6	53.0	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.6	53.0	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.6	53.0	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.6	53.0	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1142	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2630 ug/kg	50.0	99	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2690 ug/kg	50.0	101	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2670 ug/kg	50.0	101	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-8

Project: URSC00211

Sample ID: 432865008

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-9	Project:	URSC00211
Sample ID:	432865009	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	4.68%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Volatile Organics											
GEL 8260B Method List "Dry Weight Corrected"											
1,1,1-Trichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50	JP1	09/22/17	1904 1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,1,2-Trichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,1-Dichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,1-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2,3-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2,4-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2-Dibromo-3-chloropropane	U	ND	26.2	52.5	ug/kg	1.00	50				
1,2-Dibromoethane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2-Dichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,2-Dichloropropane	U	ND	17.5	52.5	ug/kg	1.00	50				
1,3-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,4-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
1,4-Dioxane	U	ND	87.4	2620	ug/kg	1.00	50				
2-Butanone	U	ND	87.4	262	ug/kg	1.00	50				
2-Hexanone	U	ND	87.4	262	ug/kg	1.00	50				
4-Methyl-2-pentanone	U	ND	87.4	262	ug/kg	1.00	50				
Acetone	U	ND	87.4	262	ug/kg	1.00	50				
Benzene	U	ND	17.5	52.5	ug/kg	1.00	50				
Bromochloromethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Bromodichloromethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Bromoform	U	ND	17.5	52.5	ug/kg	1.00	50				
Bromomethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Carbon disulfide	U	ND	87.4	262	ug/kg	1.00	50				
Carbon tetrachloride	U	ND	17.5	52.5	ug/kg	1.00	50				
Chlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
Chloroethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Chloroform	U	ND	17.5	52.5	ug/kg	1.00	50				
Chloromethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Cyclohexane	U	ND	17.5	52.5	ug/kg	1.00	50				
Dibromochloromethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Dichlorodifluoromethane	U	ND	17.5	52.5	ug/kg	1.00	50				
Ethylbenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
Isopropylbenzene	U	ND	17.5	52.5	ug/kg	1.00	50				
Methyl acetate	U	ND	87.4	262	ug/kg	1.00	50				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-9	Project: URSC00211
Sample ID: 432865009	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.5	52.5	ug/kg	1.00	50					
Methylene chloride	U	ND	87.4	262	ug/kg	1.00	50					
Styrene	U	ND	17.5	52.5	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
Toluene	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	87.4	262	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.5	52.5	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.0	105	ug/kg	1.00	50					
o-Xylene	U	ND	17.5	52.5	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.5	52.5	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1143	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2490 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2570 ug/kg	50.0	98	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2540 ug/kg	50.0	97	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-9	Project:	URSC00211
Sample ID:	432865009	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-10	Project:	URSC00211
Sample ID:	432865010	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.35%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.6	52.8	ug/kg	1.00	50	JP1	09/23/17	0202	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.6	52.8	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	BJ	23.2	17.6	52.8	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.4	52.8	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.6	52.8	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
1,4-Dioxane	U	ND	880	2640	ug/kg	1.00	50					
2-Butanone	U	ND	88.1	264	ug/kg	1.00	50					
2-Hexanone	U	ND	88.1	264	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	88.1	264	ug/kg	1.00	50					
Acetone	U	ND	88.1	264	ug/kg	1.00	50					
Benzene	U	ND	17.6	52.8	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Bromoform	U	ND	17.6	52.8	ug/kg	1.00	50					
Bromomethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Carbon disulfide	U	ND	88.1	264	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.6	52.8	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
Chloroethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Chloroform	U	ND	17.6	52.8	ug/kg	1.00	50					
Chloromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Cyclohexane	U	ND	17.6	52.8	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.6	52.8	ug/kg	1.00	50					
Methyl acetate	U	ND	88.1	264	ug/kg	1.00	50					

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-10	Project: URSC00211
Sample ID: 432865010	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatiles Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.6	52.8	ug/kg	1.00	50					
Methylene chloride	U	ND	88.1	264	ug/kg	1.00	50					
Styrene	U	ND	17.6	52.8	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.6	52.8	ug/kg	1.00	50					
Toluene	U	ND	17.6	52.8	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.6	52.8	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.6	52.8	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	88.1	264	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.6	52.8	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.6	52.8	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.6	52.8	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.2	106	ug/kg	1.00	50					
o-Xylene	U	ND	17.6	52.8	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.6	52.8	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.6	52.8	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.6	52.8	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1144	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2780 ug/kg	50.0	105	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2830 ug/kg	50.0	107	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2780 ug/kg	50.0	105	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-10	Project:	URSC00211
Sample ID:	432865010	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-11	Project:	URSC00211
Sample ID:	432865011	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.63%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.5	52.5	ug/kg	0.980	50	JP1	09/23/17	0229	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.2	52.5	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.5	52.5	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
1,4-Dioxane	U	ND	87.5	2620	ug/kg	0.980	50					
2-Butanone	U	ND	87.5	262	ug/kg	0.980	50					
2-Hexanone	U	ND	87.5	262	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	87.5	262	ug/kg	0.980	50					
Acetone	U	ND	87.5	262	ug/kg	0.980	50					
Benzene	U	ND	17.5	52.5	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Bromoform	U	ND	17.5	52.5	ug/kg	0.980	50					
Bromomethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Carbon disulfide	U	ND	87.5	262	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.5	52.5	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
Chloroethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Chloroform	U	ND	17.5	52.5	ug/kg	0.980	50					
Chloromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Cyclohexane	U	ND	17.5	52.5	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.5	52.5	ug/kg	0.980	50					
Methyl acetate	U	ND	87.5	262	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-11	Project: URSC00211
Sample ID: 432865011	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.5	52.5	ug/kg	0.980	50					
Methylene chloride	U	ND	87.5	262	ug/kg	0.980	50					
Styrene	U	ND	17.5	52.5	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.5	52.5	ug/kg	0.980	50					
Toluene	U	ND	17.5	52.5	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.5	52.5	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.5	52.5	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	87.5	262	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.5	52.5	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	0.980	50					
m,p-Xylenes	U	ND	35.0	105	ug/kg	0.980	50					
o-Xylene	U	ND	17.5	52.5	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.5	52.5	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1145	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2480 ug/kg	50.0	94	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2550 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2520 ug/kg	50.0	96	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-11	Project:	URSC00211
Sample ID:	432865011	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-12	Project:	URSC00211
Sample ID:	432865012	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.19%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.4	52.3	ug/kg	0.980	50	JP1	09/23/17	0257	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	26.1	52.3	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.4	52.3	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
1,4-Dioxane	U	ND	871	2610	ug/kg	0.980	50					
2-Butanone	U	ND	87.1	261	ug/kg	0.980	50					
2-Hexanone	U	ND	87.1	261	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	87.1	261	ug/kg	0.980	50					
Acetone	U	ND	87.1	261	ug/kg	0.980	50					
Benzene	U	ND	17.4	52.3	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Bromoform	U	ND	17.4	52.3	ug/kg	0.980	50					
Bromomethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Carbon disulfide	U	ND	87.1	261	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.4	52.3	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
Chloroethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Chloroform	U	ND	17.4	52.3	ug/kg	0.980	50					
Chloromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Cyclohexane	U	ND	17.4	52.3	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.4	52.3	ug/kg	0.980	50					
Methyl acetate	U	ND	87.1	261	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-12	Project: URSC00211
Sample ID: 432865012	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.4	52.3	ug/kg	0.980	50					
Methylene chloride	U	ND	87.1	261	ug/kg	0.980	50					
Styrene	U	ND	17.4	52.3	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.4	52.3	ug/kg	0.980	50					
Toluene	U	ND	17.4	52.3	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.4	52.3	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.4	52.3	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	87.1	261	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.4	52.3	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.4	52.3	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.4	52.3	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.9	105	ug/kg	0.980	50					
o-Xylene	U	ND	17.4	52.3	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.4	52.3	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.4	52.3	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.4	52.3	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1146	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2520 ug/kg	50.0	97	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2540 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2540 ug/kg	50.0	97	(81%-120%)

Notes:

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-12

Sample ID: 432865012

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-13	Project:	URSC00211
Sample ID:	432865013	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	4.84%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50	JP1	09/23/17	0325	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.3	52.5	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.5	52.5	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
1,4-Dioxane	U	ND	87.6	2630	ug/kg	1.00	50					
2-Butanone	U	ND	87.6	263	ug/kg	1.00	50					
2-Hexanone	U	ND	87.6	263	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	87.6	263	ug/kg	1.00	50					
Acetone	U	ND	87.6	263	ug/kg	1.00	50					
Benzene	U	ND	17.5	52.5	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Bromoform	U	ND	17.5	52.5	ug/kg	1.00	50					
Bromomethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Carbon disulfide	U	ND	87.6	263	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.5	52.5	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
Chloroethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Chloroform	U	ND	17.5	52.5	ug/kg	1.00	50					
Chloromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Cyclohexane	U	ND	17.5	52.5	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.5	52.5	ug/kg	1.00	50					
Methyl acetate	U	ND	87.6	263	ug/kg	1.00	50					

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-13	Project: URSC00211
Sample ID: 432865013	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.5	52.5	ug/kg	1.00	50					
Methylene chloride	U	ND	87.6	263	ug/kg	1.00	50					
Styrene	U	ND	17.5	52.5	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
Toluene	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.5	52.5	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	87.6	263	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.5	52.5	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.0	105	ug/kg	1.00	50					
o-Xylene	U	ND	17.5	52.5	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.5	52.5	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.5	52.5	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.5	52.5	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1147	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2520 ug/kg	50.0	96	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2580 ug/kg	50.0	98	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2550 ug/kg	50.0	97	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-13

Sample ID: 432865013

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-14	Project:	URSC00211
Sample ID:	432865014	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.28%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.2	51.8	ug/kg	0.980	50	JP1	09/23/17	0353	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,1,2-Trichloroethane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,1-Dichloroethane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,1-Dichloroethylene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2,3-Trichlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2,4-Trichlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2-Dibromo-3-chloropropane	U	ND	25.9	51.8	ug/kg	0.980	50					
1,2-Dibromoethane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2-Dichlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2-Dichloroethane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,2-Dichloropropane	U	ND	17.2	51.8	ug/kg	0.980	50					
1,3-Dichlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,4-Dichlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
1,4-Dioxane	U	ND	86.3	259.0	ug/kg	0.980	50					
2-Butanone	U	ND	86.3	259	ug/kg	0.980	50					
2-Hexanone	U	ND	86.3	259	ug/kg	0.980	50					
4-Methyl-2-pentanone	U	ND	86.3	259	ug/kg	0.980	50					
Acetone	U	ND	86.3	259	ug/kg	0.980	50					
Benzene	U	ND	17.2	51.8	ug/kg	0.980	50					
Bromochloromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Bromodichloromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Bromoform	U	ND	17.2	51.8	ug/kg	0.980	50					
Bromomethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Carbon disulfide	U	ND	86.3	259	ug/kg	0.980	50					
Carbon tetrachloride	U	ND	17.2	51.8	ug/kg	0.980	50					
Chlorobenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
Chloroethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Chloroform	U	ND	17.2	51.8	ug/kg	0.980	50					
Chloromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Cyclohexane	U	ND	17.2	51.8	ug/kg	0.980	50					
Dibromochloromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Dichlorodifluoromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Ethylbenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
Isopropylbenzene	U	ND	17.2	51.8	ug/kg	0.980	50					
Methyl acetate	U	ND	86.3	259	ug/kg	0.980	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-14	Project: URSC00211
Sample ID: 432865014	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.2	51.8	ug/kg	0.980	50					
Methylene chloride	U	ND	86.3	259	ug/kg	0.980	50					
Styrene	U	ND	17.2	51.8	ug/kg	0.980	50					
Tetrachloroethylene	U	ND	17.2	51.8	ug/kg	0.980	50					
Toluene	U	ND	17.2	51.8	ug/kg	0.980	50					
Trichloroethylene	U	ND	17.2	51.8	ug/kg	0.980	50					
Trichlorofluoromethane	U	ND	17.2	51.8	ug/kg	0.980	50					
Trichlorotrifluoroethane	U	ND	86.3	259	ug/kg	0.980	50					
Vinyl chloride	U	ND	17.2	51.8	ug/kg	0.980	50					
cis-1,2-Dichloroethylene	U	ND	17.2	51.8	ug/kg	0.980	50					
cis-1,3-Dichloropropylene	U	ND	17.2	51.8	ug/kg	0.980	50					
m,p-Xylenes	U	ND	34.5	104	ug/kg	0.980	50					
o-Xylene	U	ND	17.2	51.8	ug/kg	0.980	50					
tert-Butyl methyl ether	U	ND	17.2	51.8	ug/kg	0.980	50					
trans-1,2-Dichloroethylene	U	ND	17.2	51.8	ug/kg	0.980	50					
trans-1,3-Dichloropropylene	U	ND	17.2	51.8	ug/kg	0.980	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1148	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2460 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2590 ug/kg	50.0	100	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2560 ug/kg	50.0	99	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-14

Project: URSC00211

Sample ID: 432865014

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

Lc/LC: Critical Level

DL: Detection Limit

PF: Prep Factor

MDA: Minimum Detectable Activity

RL: Reporting Limit

MDC: Minimum Detectable Concentration

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-15	Project:	URSC00211
Sample ID:	432865015	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.09%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.7	53.2	ug/kg	1.00	50	JP1	09/23/17	0421	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.6	53.2	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.7	53.2	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
1,4-Dioxane	U	ND	88.7	266.0	ug/kg	1.00	50					
2-Butanone	U	ND	88.8	266	ug/kg	1.00	50					
2-Hexanone	U	ND	88.8	266	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	88.8	266	ug/kg	1.00	50					
Acetone	U	ND	88.8	266	ug/kg	1.00	50					
Benzene	U	ND	17.7	53.2	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Bromoform	U	ND	17.7	53.2	ug/kg	1.00	50					
Bromomethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Carbon disulfide	U	ND	88.8	266	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.7	53.2	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
Chloroethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Chloroform	U	ND	17.7	53.2	ug/kg	1.00	50					
Chloromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Cyclohexane	U	ND	17.7	53.2	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.7	53.2	ug/kg	1.00	50					
Methyl acetate	U	ND	88.8	266	ug/kg	1.00	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-15	Project:	URSC00211
Sample ID:	432865015	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.7	53.2	ug/kg	1.00	50					
Methylene chloride	U	ND	88.8	266	ug/kg	1.00	50					
Styrene	U	ND	17.7	53.2	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.7	53.2	ug/kg	1.00	50					
Toluene	U	ND	17.7	53.2	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.7	53.2	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.7	53.2	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	88.8	266	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.7	53.2	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.7	53.2	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.7	53.2	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.5	106	ug/kg	1.00	50					
o-Xylene	U	ND	17.7	53.2	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.7	53.2	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.7	53.2	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.7	53.2	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1149	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2520 ug/kg	50.0	94	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2590 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2580 ug/kg	50.0	97	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-15

Sample ID: 432865015

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-16	Project:	URSC00211
Sample ID:	432865016	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.9	53.8	ug/kg	1.00	50	JP1	09/23/17	0449	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.9	53.8	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.9	53.8	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
1,4-Dioxane	U	ND	89.6	2690	ug/kg	1.00	50					
2-Butanone	U	ND	89.6	269	ug/kg	1.00	50					
2-Hexanone	U	ND	89.6	269	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	89.6	269	ug/kg	1.00	50					
Acetone	U	ND	89.6	269	ug/kg	1.00	50					
Benzene	U	ND	17.9	53.8	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Bromoform	U	ND	17.9	53.8	ug/kg	1.00	50					
Bromomethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Carbon disulfide	U	ND	89.6	269	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.9	53.8	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
Chloroethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Chloroform	U	ND	17.9	53.8	ug/kg	1.00	50					
Chloromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Cyclohexane	U	ND	17.9	53.8	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.9	53.8	ug/kg	1.00	50					
Methyl acetate	U	ND	89.6	269	ug/kg	1.00	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-16	Project: URSC00211
Sample ID: 432865016	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.9	53.8	ug/kg	1.00	50					
Methylene chloride	U	ND	89.6	269	ug/kg	1.00	50					
Styrene	U	ND	17.9	53.8	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.9	53.8	ug/kg	1.00	50					
Toluene	U	ND	17.9	53.8	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.9	53.8	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.9	53.8	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	89.6	269	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.9	53.8	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.9	53.8	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.9	53.8	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.9	108	ug/kg	1.00	50					
o-Xylene	U	ND	17.9	53.8	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.9	53.8	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.9	53.8	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.9	53.8	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1150	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2700 ug/kg	50.0	100	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2760 ug/kg	50.0	103	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2740 ug/kg	50.0	102	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-16	Project:	URSC00211
Sample ID:	432865016	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-17	Project:	URSC00211
Sample ID:	432865017	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.47%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
1,1,1-Trichloroethane	U	ND	17.8	53.5	ug/kg	1.00	50	JP1	09/23/17	0517	1703013	1
1,1,2,2-Tetrachloroethane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,1,2-Trichloroethane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,1-Dichloroethane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,1-Dichloroethylene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2,3-Trichlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2,4-Trichlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2-Dibromo-3-chloropropane	U	ND	26.7	53.5	ug/kg	1.00	50					
1,2-Dibromoethane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2-Dichlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2-Dichloroethane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,2-Dichloropropane	U	ND	17.8	53.5	ug/kg	1.00	50					
1,3-Dichlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,4-Dichlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
1,4-Dioxane	U	ND	89.1	267.0	ug/kg	1.00	50					
2-Butanone	U	ND	89.1	267	ug/kg	1.00	50					
2-Hexanone	U	ND	89.1	267	ug/kg	1.00	50					
4-Methyl-2-pentanone	U	ND	89.1	267	ug/kg	1.00	50					
Acetone	U	ND	89.1	267	ug/kg	1.00	50					
Benzene	U	ND	17.8	53.5	ug/kg	1.00	50					
Bromochloromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Bromodichloromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Bromoform	U	ND	17.8	53.5	ug/kg	1.00	50					
Bromomethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Carbon disulfide	U	ND	89.1	267	ug/kg	1.00	50					
Carbon tetrachloride	U	ND	17.8	53.5	ug/kg	1.00	50					
Chlorobenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
Chloroethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Chloroform	U	ND	17.8	53.5	ug/kg	1.00	50					
Chloromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Cyclohexane	U	ND	17.8	53.5	ug/kg	1.00	50					
Dibromochloromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Dichlorodifluoromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Ethylbenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
Isopropylbenzene	U	ND	17.8	53.5	ug/kg	1.00	50					
Methyl acetate	U	ND	89.1	267	ug/kg	1.00	50					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-17	Project: URSC00211
Sample ID: 432865017	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Volatile Organics												
GEL 8260B Method List "Dry Weight Corrected"												
Methylcyclohexane	U	ND	17.8	53.5	ug/kg	1.00	50					
Methylene chloride	U	ND	89.1	267	ug/kg	1.00	50					
Styrene	U	ND	17.8	53.5	ug/kg	1.00	50					
Tetrachloroethylene	U	ND	17.8	53.5	ug/kg	1.00	50					
Toluene	U	ND	17.8	53.5	ug/kg	1.00	50					
Trichloroethylene	U	ND	17.8	53.5	ug/kg	1.00	50					
Trichlorofluoromethane	U	ND	17.8	53.5	ug/kg	1.00	50					
Trichlorotrifluoroethane	U	ND	89.1	267	ug/kg	1.00	50					
Vinyl chloride	U	ND	17.8	53.5	ug/kg	1.00	50					
cis-1,2-Dichloroethylene	U	ND	17.8	53.5	ug/kg	1.00	50					
cis-1,3-Dichloropropylene	U	ND	17.8	53.5	ug/kg	1.00	50					
m,p-Xylenes	U	ND	35.7	107	ug/kg	1.00	50					
o-Xylene	U	ND	17.8	53.5	ug/kg	1.00	50					
tert-Butyl methyl ether	U	ND	17.8	53.5	ug/kg	1.00	50					
trans-1,2-Dichloroethylene	U	ND	17.8	53.5	ug/kg	1.00	50					
trans-1,3-Dichloropropylene	U	ND	17.8	53.5	ug/kg	1.00	50					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 5030	Volatile 5030 Solid Prep	JP1	09/22/17	1151	1703012

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 8260B	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
1,2-Dichloroethane-d4	GEL 8260B Method List "Dry Weight Corrected"	2550 ug/kg	50.0	95	(81%-124%)
Bromofluorobenzene	GEL 8260B Method List "Dry Weight Corrected"	2590 ug/kg	50.0	97	(70%-130%)
Toluene-d8	GEL 8260B Method List "Dry Weight Corrected"	2560 ug/kg	50.0	96	(81%-120%)

Notes:

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-17	Project:	URSC00211
Sample ID:	432865017	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Semi-Volatile Analysis

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-18	Project:	URSC00211
Sample ID:	432865018	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	7.31%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	108	359	ug/kg	0.0333	1	JLD1	09/20/17	1609	1701860	1
1,2-Dichlorobenzene	U	ND	108	359	ug/kg	0.0333	1					
1,2-Diphenylhydrazine	U	ND	108	359	ug/kg	0.0333	1					
1,3-Dichlorobenzene	U	ND	108	359	ug/kg	0.0333	1					
1,4-Dichlorobenzene	U	ND	108	359	ug/kg	0.0333	1					
1-Methylnaphthalene	U	ND	10.8	35.9	ug/kg	0.0333	1					
2,4,5-Trichlorophenol	U	ND	108	359	ug/kg	0.0333	1					
2,4,6-Trichlorophenol	U	ND	108	359	ug/kg	0.0333	1					
2,4-Dichlorophenol	U	ND	108	359	ug/kg	0.0333	1					
2,4-Dimethylphenol	U	ND	108	359	ug/kg	0.0333	1					
2,4-Dinitrophenol	U	ND	108	718	ug/kg	0.0333	1					
2,4-Dinitrotoluene	U	ND	108	359	ug/kg	0.0333	1					
2,6-Dinitrotoluene	U	ND	108	359	ug/kg	0.0333	1					
2-Chloronaphthalene	U	ND	10.8	35.9	ug/kg	0.0333	1					
2-Chlorophenol	U	ND	108	359	ug/kg	0.0333	1					
2-Methyl-4,6-dinitrophenol	U	ND	108	359	ug/kg	0.0333	1					
2-Methylnaphthalene	U	ND	10.8	35.9	ug/kg	0.0333	1					
2-Nitrophenol	U	ND	108	359	ug/kg	0.0333	1					
3,3'-Dichlorobenzidine	U	ND	108	359	ug/kg	0.0333	1					
4-Bromophenylphenylether	U	ND	108	359	ug/kg	0.0333	1					
4-Chloro-3-methylphenol	U	ND	144	359	ug/kg	0.0333	1					
4-Chloroaniline	U	ND	108	359	ug/kg	0.0333	1					
4-Chlorophenylphenylether	U	ND	108	359	ug/kg	0.0333	1					
4-Nitrophenol	U	ND	108	359	ug/kg	0.0333	1					
Acenaphthene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Acenaphthylene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Acetophenone	U	ND	108	359	ug/kg	0.0333	1					
Aniline	U	ND	108	359	ug/kg	0.0333	1					
Anthracene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Benzidine	U	ND	108	359	ug/kg	0.0333	1					
Benzo(a)anthracene	J	16.2	10.8	35.9	ug/kg	0.0333	1					
Benzo(a)pyrene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Benzo(b)fluoranthene	J	16.2	10.8	35.9	ug/kg	0.0333	1					
Benzo(ghi)perylene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Benzo(k)fluoranthene	U	ND	10.8	35.9	ug/kg	0.0333	1					
Benzoic acid	U	ND	180	718	ug/kg	0.0333	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-18 Project: URSC00211
Sample ID: 432865018 Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	108	359	ug/kg	0.0333	1				
Butylbenzylphthalate	U	ND	108	359	ug/kg	0.0333	1				
Carbazole	U	ND	10.8	35.9	ug/kg	0.0333	1				
Chrysene	J	11.8	10.8	35.9	ug/kg	0.0333	1				
Di-n-butylphthalate	U	ND	108	359	ug/kg	0.0333	1				
Di-n-octylphthalate	U	ND	108	359	ug/kg	0.0333	1				
Dibenzo(a,h)anthracene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Dibenzofuran	U	ND	108	359	ug/kg	0.0333	1				
Diethylphthalate	U	ND	108	359	ug/kg	0.0333	1				
Dimethylphthalate	U	ND	108	359	ug/kg	0.0333	1				
Diphenylamine	U	ND	108	359	ug/kg	0.0333	1				
Fluoranthene	J	12.9	10.8	35.9	ug/kg	0.0333	1				
Fluorene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Hexachlorobenzene	U	ND	108	359	ug/kg	0.0333	1				
Hexachlorobutadiene	U	ND	108	359	ug/kg	0.0333	1				
Hexachlorocyclopentadiene	U	ND	108	359	ug/kg	0.0333	1				
Hexachloroethane	U	ND	108	359	ug/kg	0.0333	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Isophorone	U	ND	108	359	ug/kg	0.0333	1				
N-Methyl-N-nitrosomethylamine	U	ND	108	359	ug/kg	0.0333	1				
N-Nitrosodipropylamine	U	ND	108	359	ug/kg	0.0333	1				
Naphthalene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Nitrobenzene	U	ND	108	359	ug/kg	0.0333	1				
Pentachlorophenol	U	ND	108	359	ug/kg	0.0333	1				
Phenanthrene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Phenol	U	ND	108	359	ug/kg	0.0333	1				
Pyrene	U	ND	10.8	35.9	ug/kg	0.0333	1				
Pyridine	U	ND	108	359	ug/kg	0.0333	1				
Tributylphosphate	U	ND	108	359	ug/kg	0.0333	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	108	359	ug/kg	0.0333	1				
bis(2-Chloroethoxy)methane	U	ND	108	359	ug/kg	0.0333	1				
bis(2-Chloroethyl) ether	U	ND	108	359	ug/kg	0.0333	1				
bis(2-Ethylhexyl)phthalate	U	ND	108	359	ug/kg	0.0333	1				
m,p-Cresols	U	ND	108	359	ug/kg	0.0333	1				
m-Nitroaniline	U	ND	108	359	ug/kg	0.0333	1				
o-Cresol	U	ND	108	359	ug/kg	0.0333	1				

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Certificate of Analysis

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Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-18	Project: URSC00211
Sample ID: 432865018	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	118	359	ug/kg	0.0333	1					
p-Nitroaniline	U	ND	108	359	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1310 ug/kg	1800	73	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1250 ug/kg	1800	70	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1190 ug/kg	1800	66	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	2230 ug/kg	3590	62	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	2280 ug/kg	3590	64	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2410 ug/kg	3590	67	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19 Project: URSC00211
Sample ID: 432865019 Client ID: URSC013
Matrix: Soil
Collect Date: 14-SEP-17 08:30
Receive Date: 15-SEP-17
Collector: Client
Moisture: 6.35%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	107	356	ug/kg	0.0333	1	JLD1	09/20/17	1742	1701860	1
1,2-Dichlorobenzene	U	ND	107	356	ug/kg	0.0333	1					
1,2-Diphenylhydrazine	U	ND	107	356	ug/kg	0.0333	1					
1,3-Dichlorobenzene	U	ND	107	356	ug/kg	0.0333	1					
1,4-Dichlorobenzene	U	ND	107	356	ug/kg	0.0333	1					
1-Methylnaphthalene	U	ND	10.7	35.6	ug/kg	0.0333	1					
2,4,5-Trichlorophenol	U	ND	107	356	ug/kg	0.0333	1					
2,4,6-Trichlorophenol	U	ND	107	356	ug/kg	0.0333	1					
2,4-Dichlorophenol	U	ND	107	356	ug/kg	0.0333	1					
2,4-Dimethylphenol	U	ND	107	356	ug/kg	0.0333	1					
2,4-Dinitrophenol	U	ND	107	711	ug/kg	0.0333	1					
2,4-Dinitrotoluene	U	ND	107	356	ug/kg	0.0333	1					
2,6-Dinitrotoluene	U	ND	107	356	ug/kg	0.0333	1					
2-Chloronaphthalene	U	ND	10.7	35.6	ug/kg	0.0333	1					
2-Chlorophenol	U	ND	107	356	ug/kg	0.0333	1					
2-Methyl-4,6-dinitrophenol	U	ND	107	356	ug/kg	0.0333	1					
2-Methylnaphthalene	U	ND	10.7	35.6	ug/kg	0.0333	1					
2-Nitrophenol	U	ND	107	356	ug/kg	0.0333	1					
3,3'-Dichlorobenzidine	U	ND	107	356	ug/kg	0.0333	1					
4-Bromophenylphenylether	U	ND	107	356	ug/kg	0.0333	1					
4-Chloro-3-methylphenol	U	ND	142	356	ug/kg	0.0333	1					
4-Chloroaniline	U	ND	107	356	ug/kg	0.0333	1					
4-Chlorophenylphenylether	U	ND	107	356	ug/kg	0.0333	1					
4-Nitrophenol	U	ND	107	356	ug/kg	0.0333	1					
Acenaphthene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Acenaphthylene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Acetophenone	U	ND	107	356	ug/kg	0.0333	1					
Aniline	U	ND	107	356	ug/kg	0.0333	1					
Anthracene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzidine	U	ND	107	356	ug/kg	0.0333	1					
Benzo(a)anthracene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzo(a)pyrene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzo(b)fluoranthene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzo(ghi)perylene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzo(k)fluoranthene	U	ND	10.7	35.6	ug/kg	0.0333	1					
Benzoic acid	U	ND	178	711	ug/kg	0.0333	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19 Project: URSC00211
Sample ID: 432865019 Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	107	356	ug/kg	0.0333	1				
Butylbenzylphthalate	U	ND	107	356	ug/kg	0.0333	1				
Carbazole	U	ND	10.7	35.6	ug/kg	0.0333	1				
Chrysene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Di-n-butylphthalate	U	ND	107	356	ug/kg	0.0333	1				
Di-n-octylphthalate	U	ND	107	356	ug/kg	0.0333	1				
Dibenzo(a,h)anthracene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Dibenzofuran	U	ND	107	356	ug/kg	0.0333	1				
Diethylphthalate	U	ND	107	356	ug/kg	0.0333	1				
Dimethylphthalate	U	ND	107	356	ug/kg	0.0333	1				
Diphenylamine	U	ND	107	356	ug/kg	0.0333	1				
Fluoranthene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Fluorene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Hexachlorobenzene	U	ND	107	356	ug/kg	0.0333	1				
Hexachlorobutadiene	U	ND	107	356	ug/kg	0.0333	1				
Hexachlorocyclopentadiene	U	ND	107	356	ug/kg	0.0333	1				
Hexachloroethane	U	ND	107	356	ug/kg	0.0333	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Isophorone	U	ND	107	356	ug/kg	0.0333	1				
N-Methyl-N-nitrosomethylamine	U	ND	107	356	ug/kg	0.0333	1				
N-Nitrosodipropylamine	U	ND	107	356	ug/kg	0.0333	1				
Naphthalene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Nitrobenzene	U	ND	107	356	ug/kg	0.0333	1				
Pentachlorophenol	U	ND	107	356	ug/kg	0.0333	1				
Phenanthrene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Phenol	U	ND	107	356	ug/kg	0.0333	1				
Pyrene	U	ND	10.7	35.6	ug/kg	0.0333	1				
Pyridine	U	ND	107	356	ug/kg	0.0333	1				
Tributylphosphate	U	ND	107	356	ug/kg	0.0333	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	107	356	ug/kg	0.0333	1				
bis(2-Chloroethoxy)methane	U	ND	107	356	ug/kg	0.0333	1				
bis(2-Chloroethyl) ether	U	ND	107	356	ug/kg	0.0333	1				
bis(2-Ethylhexyl)phthalate	U	ND	107	356	ug/kg	0.0333	1				
m,p-Cresols	U	ND	107	356	ug/kg	0.0333	1				
m-Nitroaniline	U	ND	107	356	ug/kg	0.0333	1				
o-Cresol	U	ND	107	356	ug/kg	0.0333	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19

Project: URSC00211

Sample ID: 432865019

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	356	ug/kg	0.0333	1					
p-Nitroaniline	U	ND	107	356	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1150 ug/kg	1780	65	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1160 ug/kg	1780	65	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1080 ug/kg	1780	61	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	1830 ug/kg	3560	51	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	2040 ug/kg	3560	57	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2110 ug/kg	3560	59	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor
DL: Detection Limit
MDA: Minimum Detectable Activity
MDC: Minimum Detectable Concentration

Lc/LC: Critical Level
PF: Prep Factor
RL: Reporting Limit
SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-20	Project:	URSC00211
Sample ID:	432865020	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	106	354	ug/kg	0.0332	1	JLD1	09/20/17	1813	1701860	1
1,2-Dichlorobenzene	U	ND	106	354	ug/kg	0.0332	1					
1,2-Diphenylhydrazine	U	ND	106	354	ug/kg	0.0332	1					
1,3-Dichlorobenzene	U	ND	106	354	ug/kg	0.0332	1					
1,4-Dichlorobenzene	U	ND	106	354	ug/kg	0.0332	1					
1-Methylnaphthalene	U	ND	10.6	35.4	ug/kg	0.0332	1					
2,4,5-Trichlorophenol	U	ND	106	354	ug/kg	0.0332	1					
2,4,6-Trichlorophenol	U	ND	106	354	ug/kg	0.0332	1					
2,4-Dichlorophenol	U	ND	106	354	ug/kg	0.0332	1					
2,4-Dimethylphenol	U	ND	106	354	ug/kg	0.0332	1					
2,4-Dinitrophenol	U	ND	106	707	ug/kg	0.0332	1					
2,4-Dinitrotoluene	U	ND	106	354	ug/kg	0.0332	1					
2,6-Dinitrotoluene	U	ND	106	354	ug/kg	0.0332	1					
2-Chloronaphthalene	U	ND	10.6	35.4	ug/kg	0.0332	1					
2-Chlorophenol	U	ND	106	354	ug/kg	0.0332	1					
2-Methyl-4,6-dinitrophenol	U	ND	106	354	ug/kg	0.0332	1					
2-Methylnaphthalene	U	ND	10.6	35.4	ug/kg	0.0332	1					
2-Nitrophenol	U	ND	106	354	ug/kg	0.0332	1					
3,3'-Dichlorobenzidine	U	ND	106	354	ug/kg	0.0332	1					
4-Bromophenylphenylether	U	ND	106	354	ug/kg	0.0332	1					
4-Chloro-3-methylphenol	U	ND	141	354	ug/kg	0.0332	1					
4-Chloroaniline	U	ND	106	354	ug/kg	0.0332	1					
4-Chlorophenylphenylether	U	ND	106	354	ug/kg	0.0332	1					
4-Nitrophenol	U	ND	106	354	ug/kg	0.0332	1					
Acenaphthene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Acenaphthylene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Acetophenone	U	ND	106	354	ug/kg	0.0332	1					
Aniline	U	ND	106	354	ug/kg	0.0332	1					
Anthracene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzidine	U	ND	106	354	ug/kg	0.0332	1					
Benzo(a)anthracene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzo(a)pyrene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzo(b)fluoranthene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzo(ghi)perylene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzo(k)fluoranthene	U	ND	10.6	35.4	ug/kg	0.0332	1					
Benzoic acid	U	ND	177	707	ug/kg	0.0332	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-20

Project: URSC00211

Sample ID: 432865020

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	106	354	ug/kg	0.0332	1				
Butylbenzylphthalate	U	ND	106	354	ug/kg	0.0332	1				
Carbazole	U	ND	10.6	35.4	ug/kg	0.0332	1				
Chrysene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Di-n-butylphthalate	U	ND	106	354	ug/kg	0.0332	1				
Di-n-octylphthalate	U	ND	106	354	ug/kg	0.0332	1				
Dibenzo(a,h)anthracene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Dibenzofuran	U	ND	106	354	ug/kg	0.0332	1				
Diethylphthalate	U	ND	106	354	ug/kg	0.0332	1				
Dimethylphthalate	U	ND	106	354	ug/kg	0.0332	1				
Diphenylamine	U	ND	106	354	ug/kg	0.0332	1				
Fluoranthene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Fluorene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Hexachlorobenzene	U	ND	106	354	ug/kg	0.0332	1				
Hexachlorobutadiene	U	ND	106	354	ug/kg	0.0332	1				
Hexachlorocyclopentadiene	U	ND	106	354	ug/kg	0.0332	1				
Hexachloroethane	U	ND	106	354	ug/kg	0.0332	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Isophorone	U	ND	106	354	ug/kg	0.0332	1				
N-Methyl-N-nitrosomethylamine	U	ND	106	354	ug/kg	0.0332	1				
N-Nitrosodipropylamine	U	ND	106	354	ug/kg	0.0332	1				
Naphthalene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Nitrobenzene	U	ND	106	354	ug/kg	0.0332	1				
Pentachlorophenol	U	ND	106	354	ug/kg	0.0332	1				
Phenanthrene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Phenol	U	ND	106	354	ug/kg	0.0332	1				
Pyrene	U	ND	10.6	35.4	ug/kg	0.0332	1				
Pyridine	U	ND	106	354	ug/kg	0.0332	1				
Tributylphosphate	U	ND	106	354	ug/kg	0.0332	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	106	354	ug/kg	0.0332	1				
bis(2-Chloroethoxy)methane	U	ND	106	354	ug/kg	0.0332	1				
bis(2-Chloroethyl) ether	U	ND	106	354	ug/kg	0.0332	1				
bis(2-Ethylhexyl)phthalate	U	ND	106	354	ug/kg	0.0332	1				
m,p-Cresols	U	ND	106	354	ug/kg	0.0332	1				
m-Nitroaniline	U	ND	106	354	ug/kg	0.0332	1				
o-Cresol	U	ND	106	354	ug/kg	0.0332	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-20	Project:	URSC00211
Sample ID:	432865020	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	354	ug/kg	0.0332	1					
p-Nitroaniline	U	ND	106	354	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1210 ug/kg	1770	68	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1210 ug/kg	1770	68	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1160 ug/kg	1770	66	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	1920 ug/kg	3540	54	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	2100 ug/kg	3540	59	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2210 ug/kg	3540	62	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-21	Project:	URSC00211
Sample ID:	432865021	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.64%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	107	356	ug/kg	0.0332	1	JLD1	09/20/17	1844	1701860	1
1,2-Dichlorobenzene	U	ND	107	356	ug/kg	0.0332	1					
1,2-Diphenylhydrazine	U	ND	107	356	ug/kg	0.0332	1					
1,3-Dichlorobenzene	U	ND	107	356	ug/kg	0.0332	1					
1,4-Dichlorobenzene	U	ND	107	356	ug/kg	0.0332	1					
1-Methylnaphthalene	U	ND	10.7	35.6	ug/kg	0.0332	1					
2,4,5-Trichlorophenol	U	ND	107	356	ug/kg	0.0332	1					
2,4,6-Trichlorophenol	U	ND	107	356	ug/kg	0.0332	1					
2,4-Dichlorophenol	U	ND	107	356	ug/kg	0.0332	1					
2,4-Dimethylphenol	U	ND	107	356	ug/kg	0.0332	1					
2,4-Dinitrophenol	U	ND	107	712	ug/kg	0.0332	1					
2,4-Dinitrotoluene	U	ND	107	356	ug/kg	0.0332	1					
2,6-Dinitrotoluene	U	ND	107	356	ug/kg	0.0332	1					
2-Chloronaphthalene	U	ND	10.7	35.6	ug/kg	0.0332	1					
2-Chlorophenol	U	ND	107	356	ug/kg	0.0332	1					
2-Methyl-4,6-dinitrophenol	U	ND	107	356	ug/kg	0.0332	1					
2-Methylnaphthalene	U	ND	10.7	35.6	ug/kg	0.0332	1					
2-Nitrophenol	U	ND	107	356	ug/kg	0.0332	1					
3,3'-Dichlorobenzidine	U	ND	107	356	ug/kg	0.0332	1					
4-Bromophenylphenylether	U	ND	107	356	ug/kg	0.0332	1					
4-Chloro-3-methylphenol	U	ND	142	356	ug/kg	0.0332	1					
4-Chloroaniline	U	ND	107	356	ug/kg	0.0332	1					
4-Chlorophenylphenylether	U	ND	107	356	ug/kg	0.0332	1					
4-Nitrophenol	U	ND	107	356	ug/kg	0.0332	1					
Acenaphthene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Acenaphthylene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Acetophenone	U	ND	107	356	ug/kg	0.0332	1					
Aniline	U	ND	107	356	ug/kg	0.0332	1					
Anthracene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzidine	U	ND	107	356	ug/kg	0.0332	1					
Benzo(a)anthracene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzo(a)pyrene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzo(b)fluoranthene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzo(ghi)perylene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzo(k)fluoranthene	U	ND	10.7	35.6	ug/kg	0.0332	1					
Benzoic acid	U	ND	178	712	ug/kg	0.0332	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-21 Project: URSC00211
Sample ID: 432865021 Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	107	356	ug/kg	0.0332	1				
Butylbenzylphthalate	U	ND	107	356	ug/kg	0.0332	1				
Carbazole	U	ND	10.7	35.6	ug/kg	0.0332	1				
Chrysene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Di-n-butylphthalate	U	ND	107	356	ug/kg	0.0332	1				
Di-n-octylphthalate	U	ND	107	356	ug/kg	0.0332	1				
Dibenzo(a,h)anthracene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Dibenzofuran	U	ND	107	356	ug/kg	0.0332	1				
Diethylphthalate	U	ND	107	356	ug/kg	0.0332	1				
Dimethylphthalate	U	ND	107	356	ug/kg	0.0332	1				
Diphenylamine	U	ND	107	356	ug/kg	0.0332	1				
Fluoranthene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Fluorene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Hexachlorobenzene	U	ND	107	356	ug/kg	0.0332	1				
Hexachlorobutadiene	U	ND	107	356	ug/kg	0.0332	1				
Hexachlorocyclopentadiene	U	ND	107	356	ug/kg	0.0332	1				
Hexachloroethane	U	ND	107	356	ug/kg	0.0332	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Isophorone	U	ND	107	356	ug/kg	0.0332	1				
N-Methyl-N-nitrosomethylamine	U	ND	107	356	ug/kg	0.0332	1				
N-Nitrosodipropylamine	U	ND	107	356	ug/kg	0.0332	1				
Naphthalene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Nitrobenzene	U	ND	107	356	ug/kg	0.0332	1				
Pentachlorophenol	U	ND	107	356	ug/kg	0.0332	1				
Phenanthrene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Phenol	U	ND	107	356	ug/kg	0.0332	1				
Pyrene	U	ND	10.7	35.6	ug/kg	0.0332	1				
Pyridine	U	ND	107	356	ug/kg	0.0332	1				
Tributylphosphate	U	ND	107	356	ug/kg	0.0332	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	107	356	ug/kg	0.0332	1				
bis(2-Chloroethoxy)methane	U	ND	107	356	ug/kg	0.0332	1				
bis(2-Chloroethyl) ether	U	ND	107	356	ug/kg	0.0332	1				
bis(2-Ethylhexyl)phthalate	U	ND	107	356	ug/kg	0.0332	1				
m,p-Cresols	U	ND	107	356	ug/kg	0.0332	1				
m-Nitroaniline	U	ND	107	356	ug/kg	0.0332	1				
o-Cresol	U	ND	107	356	ug/kg	0.0332	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-21	Project: URSC00211
Sample ID: 432865021	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	356	ug/kg	0.0332	1					
p-Nitroaniline	U	ND	107	356	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1170 ug/kg	1780	66	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1110 ug/kg	1780	62	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1050 ug/kg	1780	59	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	1770 ug/kg	3560	50	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	1990 ug/kg	3560	56	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2100 ug/kg	3560	59	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-22 Project: URSC00211
Sample ID: 432865022 Client ID: URSC013
Matrix: Soil
Collect Date: 14-SEP-17 08:30
Receive Date: 15-SEP-17
Collector: Client
Moisture: 5.97%

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	106	353	ug/kg	0.0332	1	JLD1	09/20/17	1915	1701860	1
1,2-Dichlorobenzene	U	ND	106	353	ug/kg	0.0332	1					
1,2-Diphenylhydrazine	U	ND	106	353	ug/kg	0.0332	1					
1,3-Dichlorobenzene	U	ND	106	353	ug/kg	0.0332	1					
1,4-Dichlorobenzene	U	ND	106	353	ug/kg	0.0332	1					
1-Methylnaphthalene	U	ND	10.6	35.3	ug/kg	0.0332	1					
2,4,5-Trichlorophenol	U	ND	106	353	ug/kg	0.0332	1					
2,4,6-Trichlorophenol	U	ND	106	353	ug/kg	0.0332	1					
2,4-Dichlorophenol	U	ND	106	353	ug/kg	0.0332	1					
2,4-Dimethylphenol	U	ND	106	353	ug/kg	0.0332	1					
2,4-Dinitrophenol	U	ND	106	707	ug/kg	0.0332	1					
2,4-Dinitrotoluene	U	ND	106	353	ug/kg	0.0332	1					
2,6-Dinitrotoluene	U	ND	106	353	ug/kg	0.0332	1					
2-Chloronaphthalene	U	ND	10.6	35.3	ug/kg	0.0332	1					
2-Chlorophenol	U	ND	106	353	ug/kg	0.0332	1					
2-Methyl-4,6-dinitrophenol	U	ND	106	353	ug/kg	0.0332	1					
2-Methylnaphthalene	U	ND	10.6	35.3	ug/kg	0.0332	1					
2-Nitrophenol	U	ND	106	353	ug/kg	0.0332	1					
3,3'-Dichlorobenzidine	U	ND	106	353	ug/kg	0.0332	1					
4-Bromophenylphenylether	U	ND	106	353	ug/kg	0.0332	1					
4-Chloro-3-methylphenol	U	ND	141	353	ug/kg	0.0332	1					
4-Chloroaniline	U	ND	106	353	ug/kg	0.0332	1					
4-Chlorophenylphenylether	U	ND	106	353	ug/kg	0.0332	1					
4-Nitrophenol	U	ND	106	353	ug/kg	0.0332	1					
Acenaphthene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Acenaphthylene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Acetophenone	U	ND	106	353	ug/kg	0.0332	1					
Aniline	U	ND	106	353	ug/kg	0.0332	1					
Anthracene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzidine	U	ND	106	353	ug/kg	0.0332	1					
Benzo(a)anthracene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzo(a)pyrene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzo(b)fluoranthene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzo(ghi)perylene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzo(k)fluoranthene	U	ND	10.6	35.3	ug/kg	0.0332	1					
Benzoic acid	U	ND	177	707	ug/kg	0.0332	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-22

Project: URSC00211

Sample ID: 432865022

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	106	353	ug/kg	0.0332	1				
Butylbenzylphthalate	U	ND	106	353	ug/kg	0.0332	1				
Carbazole	U	ND	10.6	35.3	ug/kg	0.0332	1				
Chrysene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Di-n-butylphthalate	U	ND	106	353	ug/kg	0.0332	1				
Di-n-octylphthalate	U	ND	106	353	ug/kg	0.0332	1				
Dibenzo(a,h)anthracene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Dibenzofuran	U	ND	106	353	ug/kg	0.0332	1				
Diethylphthalate	U	ND	106	353	ug/kg	0.0332	1				
Dimethylphthalate	U	ND	106	353	ug/kg	0.0332	1				
Diphenylamine	U	ND	106	353	ug/kg	0.0332	1				
Fluoranthene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Fluorene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Hexachlorobenzene	U	ND	106	353	ug/kg	0.0332	1				
Hexachlorobutadiene	U	ND	106	353	ug/kg	0.0332	1				
Hexachlorocyclopentadiene	U	ND	106	353	ug/kg	0.0332	1				
Hexachloroethane	U	ND	106	353	ug/kg	0.0332	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Isophorone	U	ND	106	353	ug/kg	0.0332	1				
N-Methyl-N-nitrosomethylamine	U	ND	106	353	ug/kg	0.0332	1				
N-Nitrosodipropylamine	U	ND	106	353	ug/kg	0.0332	1				
Naphthalene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Nitrobenzene	U	ND	106	353	ug/kg	0.0332	1				
Pentachlorophenol	U	ND	106	353	ug/kg	0.0332	1				
Phenanthrene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Phenol	U	ND	106	353	ug/kg	0.0332	1				
Pyrene	U	ND	10.6	35.3	ug/kg	0.0332	1				
Pyridine	U	ND	106	353	ug/kg	0.0332	1				
Tributylphosphate	U	ND	106	353	ug/kg	0.0332	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	106	353	ug/kg	0.0332	1				
bis(2-Chloroethoxy)methane	U	ND	106	353	ug/kg	0.0332	1				
bis(2-Chloroethyl) ether	U	ND	106	353	ug/kg	0.0332	1				
bis(2-Ethylhexyl)phthalate	J	119	106	353	ug/kg	0.0332	1				
m,p-Cresols	U	ND	106	353	ug/kg	0.0332	1				
m-Nitroaniline	U	ND	106	353	ug/kg	0.0332	1				
o-Cresol	U	ND	106	353	ug/kg	0.0332	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-22	Project: URSC00211
Sample ID: 432865022	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	353	ug/kg	0.0332	1					
p-Nitroaniline	U	ND	106	353	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1060 ug/kg	1770	60	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1030 ug/kg	1770	59	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1040 ug/kg	1770	59	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	1730 ug/kg	3530	49	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	1830 ug/kg	3530	52	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	1930 ug/kg	3530	55	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-23	Project:	URSC00211
Sample ID:	432865023	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	106	354	ug/kg	0.0333	1	JLD1	09/20/17	1946	1701860	1
1,2-Dichlorobenzene	U	ND	106	354	ug/kg	0.0333	1					
1,2-Diphenylhydrazine	U	ND	106	354	ug/kg	0.0333	1					
1,3-Dichlorobenzene	U	ND	106	354	ug/kg	0.0333	1					
1,4-Dichlorobenzene	U	ND	106	354	ug/kg	0.0333	1					
1-Methylnaphthalene	U	ND	10.6	35.4	ug/kg	0.0333	1					
2,4,5-Trichlorophenol	U	ND	106	354	ug/kg	0.0333	1					
2,4,6-Trichlorophenol	U	ND	106	354	ug/kg	0.0333	1					
2,4-Dichlorophenol	U	ND	106	354	ug/kg	0.0333	1					
2,4-Dimethylphenol	U	ND	106	354	ug/kg	0.0333	1					
2,4-Dinitrophenol	U	ND	106	708	ug/kg	0.0333	1					
2,4-Dinitrotoluene	U	ND	106	354	ug/kg	0.0333	1					
2,6-Dinitrotoluene	U	ND	106	354	ug/kg	0.0333	1					
2-Chloronaphthalene	U	ND	10.6	35.4	ug/kg	0.0333	1					
2-Chlorophenol	U	ND	106	354	ug/kg	0.0333	1					
2-Methyl-4,6-dinitrophenol	U	ND	106	354	ug/kg	0.0333	1					
2-Methylnaphthalene	U	ND	10.6	35.4	ug/kg	0.0333	1					
2-Nitrophenol	U	ND	106	354	ug/kg	0.0333	1					
3,3'-Dichlorobenzidine	U	ND	106	354	ug/kg	0.0333	1					
4-Bromophenylphenylether	U	ND	106	354	ug/kg	0.0333	1					
4-Chloro-3-methylphenol	U	ND	142	354	ug/kg	0.0333	1					
4-Chloroaniline	U	ND	106	354	ug/kg	0.0333	1					
4-Chlorophenylphenylether	U	ND	106	354	ug/kg	0.0333	1					
4-Nitrophenol	U	ND	106	354	ug/kg	0.0333	1					
Acenaphthene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Acenaphthylene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Acetophenone	U	ND	106	354	ug/kg	0.0333	1					
Aniline	U	ND	106	354	ug/kg	0.0333	1					
Anthracene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzidine	U	ND	106	354	ug/kg	0.0333	1					
Benzo(a)anthracene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzo(a)pyrene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzo(b)fluoranthene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzo(ghi)perylene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzo(k)fluoranthene	U	ND	10.6	35.4	ug/kg	0.0333	1					
Benzoic acid	U	ND	177	708	ug/kg	0.0333	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-23 Project: URSC00211
Sample ID: 432865023 Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	106	354	ug/kg	0.0333	1				
Butylbenzylphthalate	U	ND	106	354	ug/kg	0.0333	1				
Carbazole	U	ND	10.6	35.4	ug/kg	0.0333	1				
Chrysene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Di-n-butylphthalate	U	ND	106	354	ug/kg	0.0333	1				
Di-n-octylphthalate	U	ND	106	354	ug/kg	0.0333	1				
Dibenzo(a,h)anthracene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Dibenzofuran	U	ND	106	354	ug/kg	0.0333	1				
Diethylphthalate	U	ND	106	354	ug/kg	0.0333	1				
Dimethylphthalate	U	ND	106	354	ug/kg	0.0333	1				
Diphenylamine	U	ND	106	354	ug/kg	0.0333	1				
Fluoranthene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Fluorene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Hexachlorobenzene	U	ND	106	354	ug/kg	0.0333	1				
Hexachlorobutadiene	U	ND	106	354	ug/kg	0.0333	1				
Hexachlorocyclopentadiene	U	ND	106	354	ug/kg	0.0333	1				
Hexachloroethane	U	ND	106	354	ug/kg	0.0333	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Isophorone	U	ND	106	354	ug/kg	0.0333	1				
N-Methyl-N-nitrosomethylamine	U	ND	106	354	ug/kg	0.0333	1				
N-Nitrosodipropylamine	U	ND	106	354	ug/kg	0.0333	1				
Naphthalene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Nitrobenzene	U	ND	106	354	ug/kg	0.0333	1				
Pentachlorophenol	U	ND	106	354	ug/kg	0.0333	1				
Phenanthrene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Phenol	U	ND	106	354	ug/kg	0.0333	1				
Pyrene	U	ND	10.6	35.4	ug/kg	0.0333	1				
Pyridine	U	ND	106	354	ug/kg	0.0333	1				
Tributylphosphate	U	ND	106	354	ug/kg	0.0333	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	106	354	ug/kg	0.0333	1				
bis(2-Chloroethoxy)methane	U	ND	106	354	ug/kg	0.0333	1				
bis(2-Chloroethyl) ether	U	ND	106	354	ug/kg	0.0333	1				
bis(2-Ethylhexyl)phthalate		518	106	354	ug/kg	0.0333	1				
m,p-Cresols	U	ND	106	354	ug/kg	0.0333	1				
m-Nitroaniline	U	ND	106	354	ug/kg	0.0333	1				
o-Cresol	U	ND	106	354	ug/kg	0.0333	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-23	Project: URSC00211
Sample ID: 432865023	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	354	ug/kg	0.0333	1					
p-Nitroaniline	U	ND	106	354	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1210 ug/kg	1770	68	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1170 ug/kg	1770	66	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1130 ug/kg	1770	64	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	1830 ug/kg	3540	52	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	1980 ug/kg	3540	56	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2140 ug/kg	3540	60	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-24	Project:	URSC00211
Sample ID:	432865024	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.96%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
1,2,4-Trichlorobenzene	U	ND	107	355	ug/kg	0.0331	1	JLD1	09/20/17	2017	1701860	1
1,2-Dichlorobenzene	U	ND	107	355	ug/kg	0.0331	1					
1,2-Diphenylhydrazine	U	ND	107	355	ug/kg	0.0331	1					
1,3-Dichlorobenzene	U	ND	107	355	ug/kg	0.0331	1					
1,4-Dichlorobenzene	U	ND	107	355	ug/kg	0.0331	1					
1-Methylnaphthalene	U	ND	10.7	35.5	ug/kg	0.0331	1					
2,4,5-Trichlorophenol	U	ND	107	355	ug/kg	0.0331	1					
2,4,6-Trichlorophenol	U	ND	107	355	ug/kg	0.0331	1					
2,4-Dichlorophenol	U	ND	107	355	ug/kg	0.0331	1					
2,4-Dimethylphenol	U	ND	107	355	ug/kg	0.0331	1					
2,4-Dinitrophenol	U	ND	107	711	ug/kg	0.0331	1					
2,4-Dinitrotoluene	U	ND	107	355	ug/kg	0.0331	1					
2,6-Dinitrotoluene	U	ND	107	355	ug/kg	0.0331	1					
2-Chloronaphthalene	U	ND	10.7	35.5	ug/kg	0.0331	1					
2-Chlorophenol	U	ND	107	355	ug/kg	0.0331	1					
2-Methyl-4,6-dinitrophenol	U	ND	107	355	ug/kg	0.0331	1					
2-Methylnaphthalene	U	ND	10.7	35.5	ug/kg	0.0331	1					
2-Nitrophenol	U	ND	107	355	ug/kg	0.0331	1					
3,3'-Dichlorobenzidine	U	ND	107	355	ug/kg	0.0331	1					
4-Bromophenylphenylether	U	ND	107	355	ug/kg	0.0331	1					
4-Chloro-3-methylphenol	U	ND	142	355	ug/kg	0.0331	1					
4-Chloroaniline	U	ND	107	355	ug/kg	0.0331	1					
4-Chlorophenylphenylether	U	ND	107	355	ug/kg	0.0331	1					
4-Nitrophenol	U	ND	107	355	ug/kg	0.0331	1					
Acenaphthene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Acenaphthylene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Acetophenone	U	ND	107	355	ug/kg	0.0331	1					
Aniline	U	ND	107	355	ug/kg	0.0331	1					
Anthracene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzidine	U	ND	107	355	ug/kg	0.0331	1					
Benzo(a)anthracene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzo(a)pyrene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzo(b)fluoranthene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzo(ghi)perylene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzo(k)fluoranthene	U	ND	10.7	35.5	ug/kg	0.0331	1					
Benzoic acid	U	ND	178	711	ug/kg	0.0331	1					

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-24 Project: URSC00211
Sample ID: 432865024 Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
Semi-Volatile-GC/MS											
8270C BNA Soil "Dry Weight Corrected"											
Benzyl alcohol	U	ND	107	355	ug/kg	0.0331	1				
Butylbenzylphthalate	U	ND	107	355	ug/kg	0.0331	1				
Carbazole	U	ND	10.7	35.5	ug/kg	0.0331	1				
Chrysene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Di-n-butylphthalate	U	ND	107	355	ug/kg	0.0331	1				
Di-n-octylphthalate	U	ND	107	355	ug/kg	0.0331	1				
Dibenzo(a,h)anthracene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Dibenzofuran	U	ND	107	355	ug/kg	0.0331	1				
Diethylphthalate	U	ND	107	355	ug/kg	0.0331	1				
Dimethylphthalate	U	ND	107	355	ug/kg	0.0331	1				
Diphenylamine	U	ND	107	355	ug/kg	0.0331	1				
Fluoranthene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Fluorene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Hexachlorobenzene	U	ND	107	355	ug/kg	0.0331	1				
Hexachlorobutadiene	U	ND	107	355	ug/kg	0.0331	1				
Hexachlorocyclopentadiene	U	ND	107	355	ug/kg	0.0331	1				
Hexachloroethane	U	ND	107	355	ug/kg	0.0331	1				
Indeno(1,2,3-cd)pyrene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Isophorone	U	ND	107	355	ug/kg	0.0331	1				
N-Methyl-N-nitrosomethylamine	U	ND	107	355	ug/kg	0.0331	1				
N-Nitrosodipropylamine	U	ND	107	355	ug/kg	0.0331	1				
Naphthalene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Nitrobenzene	U	ND	107	355	ug/kg	0.0331	1				
Pentachlorophenol	U	ND	107	355	ug/kg	0.0331	1				
Phenanthrene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Phenol	U	ND	107	355	ug/kg	0.0331	1				
Pyrene	U	ND	10.7	35.5	ug/kg	0.0331	1				
Pyridine	U	ND	107	355	ug/kg	0.0331	1				
Tributylphosphate	U	ND	107	355	ug/kg	0.0331	1				
bis(2-Chloro-1-methylethyl)ether	U	ND	107	355	ug/kg	0.0331	1				
bis(2-Chloroethoxy)methane	U	ND	107	355	ug/kg	0.0331	1				
bis(2-Chloroethyl) ether	U	ND	107	355	ug/kg	0.0331	1				
bis(2-Ethylhexyl)phthalate		592	107	355	ug/kg	0.0331	1				
m,p-Cresols	U	ND	107	355	ug/kg	0.0331	1				
m-Nitroaniline	U	ND	107	355	ug/kg	0.0331	1				
o-Cresol	U	ND	107	355	ug/kg	0.0331	1				

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Certificate of Analysis

Report Date: September 27, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-24	Project: URSC00211
Sample ID: 432865024	Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatile-GC/MS												
8270C BNA Soil "Dry Weight Corrected"												
o-Nitroaniline	U	ND	117	355	ug/kg	0.0331	1					
p-Nitroaniline	U	ND	107	355	ug/kg	0.0331	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 8270C BNA for Soil	DXB8	09/20/17	0904	1701859

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8270C	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
2-Fluorobiphenyl	8270C BNA Soil "Dry Weight Corrected"	1260 ug/kg	1780	71	(35%-107%)
Nitrobenzene-d5	8270C BNA Soil "Dry Weight Corrected"	1250 ug/kg	1780	70	(34%-109%)
p-Terphenyl-d14	8270C BNA Soil "Dry Weight Corrected"	1210 ug/kg	1780	68	(45%-119%)
2,4,6-Tribromophenol	8270C BNA Soil "Dry Weight Corrected"	2130 ug/kg	3550	60	(39%-115%)
2-Fluorophenol	8270C BNA Soil "Dry Weight Corrected"	2120 ug/kg	3550	60	(36%-104%)
Phenol-d5	8270C BNA Soil "Dry Weight Corrected"	2300 ug/kg	3550	65	(39%-106%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Metals Analysis

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-18	Project:	URSC00211
Sample ID:	432865018	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	7.31%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.0212	0.00422	0.0126	mg/kg	58.4	1	MTM1	09/20/17	1120	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.346	1.05	mg/kg	97.1	1	LS	09/20/17	1405	1701882	2
Barium		31.2	0.105	0.524	mg/kg	97.1	1					
Cadmium	J	0.147	0.105	0.524	mg/kg	97.1	1					
Chromium		10.8	0.157	0.524	mg/kg	97.1	1					
Cobalt		6.71	0.157	0.524	mg/kg	97.1	1					
Iron		20100	8.38	26.2	mg/kg	97.1	1					
Manganese		443	0.209	1.05	mg/kg	97.1	1					
Nickel		15.7	0.157	0.524	mg/kg	97.1	1					
Silver	J	0.513	0.105	0.524	mg/kg	97.1	1					
Zinc		62.0	0.419	1.05	mg/kg	97.1	1					
Lead		9.54	0.346	1.05	mg/kg	97.1	1	LS	09/25/17	1436	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		8.10	0.350	1.04	mg/kg	96.0	2	PRB	10/03/17	1300	1705788	4
Selenium		1.87	0.373	1.04	mg/kg	96.0	2					
Thallium	J	0.166	0.145	0.414	mg/kg	96.0	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-18

Sample ID: 432865018

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19	Project: URSC00211
Sample ID: 432865019	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 6.35%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.0188	0.00375	0.0112	mg/kg	52.4	1	MTM1	09/20/17	1132	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.340	1.03	mg/kg	96.5	1	LS	09/20/17	1421	1701882	2
Barium		30.0	0.103	0.515	mg/kg	96.5	1					
Cadmium	J	0.107	0.103	0.515	mg/kg	96.5	1					
Chromium		11.9	0.155	0.515	mg/kg	96.5	1					
Cobalt		7.66	0.155	0.515	mg/kg	96.5	1					
Iron		19800	8.25	25.8	mg/kg	96.5	1					
Manganese		503	0.206	1.03	mg/kg	96.5	1					
Nickel		16.9	0.155	0.515	mg/kg	96.5	1					
Silver		0.641	0.103	0.515	mg/kg	96.5	1					
Zinc		67.2	0.412	1.03	mg/kg	96.5	1					
Lead		9.81	0.340	1.03	mg/kg	96.5	1	LS	09/25/17	1451	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		6.72	0.342	1.01	mg/kg	94.7	2	PRB	10/03/17	1312	1705788	4
Selenium		1.68	0.364	1.01	mg/kg	94.7	2					
Thallium	U	ND	0.142	0.404	mg/kg	94.7	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19

Sample ID: 432865019

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-20	Project:	URSC00211
Sample ID:	432865020	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.0219	0.00421	0.0126	mg/kg	59.1	1	MTM1	09/20/17	1133	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.337	1.02	mg/kg	96.2	1	LS	09/20/17	1423	1701882	2
Barium		138	0.102	0.511	mg/kg	96.2	1					
Cadmium	J	0.363	0.102	0.511	mg/kg	96.2	1					
Chromium		10.3	0.153	0.511	mg/kg	96.2	1					
Cobalt		7.87	0.153	0.511	mg/kg	96.2	1					
Iron		19100	8.18	25.6	mg/kg	96.2	1					
Manganese		714	0.205	1.02	mg/kg	96.2	1					
Nickel		18.6	0.153	0.511	mg/kg	96.2	1					
Silver		0.749	0.102	0.511	mg/kg	96.2	1					
Zinc		70.2	0.409	1.02	mg/kg	96.2	1					
Lead		8.62	0.337	1.02	mg/kg	96.2	1	LS	09/25/17	1453	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		6.85	0.335	0.990	mg/kg	93.1	2	PRB	10/03/17	1314	1705788	4
Selenium		1.70	0.357	0.990	mg/kg	93.1	2					
Thallium	U	ND	0.139	0.396	mg/kg	93.1	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Contact: Niskayuna, New York 12309
Project: Mr. Jason Litwiller
SPRU Disposition Project

Client Sample ID: Soil-20

Sample ID: 432865020

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-21	Project: URSC00211
Sample ID: 432865021	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 6.64%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.0178	0.00423	0.0126	mg/kg	58.9	1	MTM1	09/20/17	1135	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.346	1.05	mg/kg	97.8	1	LS	09/20/17	1425	1701882	2
Barium		38.6	0.105	0.524	mg/kg	97.8	1					
Cadmium	U	ND	0.105	0.524	mg/kg	97.8	1					
Chromium		14.0	0.157	0.524	mg/kg	97.8	1					
Cobalt		8.45	0.157	0.524	mg/kg	97.8	1					
Iron		24400	8.38	26.2	mg/kg	97.8	1					
Manganese		648	0.210	1.05	mg/kg	97.8	1					
Nickel		21.6	0.157	0.524	mg/kg	97.8	1					
Silver	J	0.374	0.105	0.524	mg/kg	97.8	1					
Zinc		85.2	0.419	1.05	mg/kg	97.8	1					
Lead		12.2	0.346	1.05	mg/kg	97.8	1	LS	09/25/17	1456	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		6.59	0.352	1.04	mg/kg	97.3	2	PRB	10/03/17	1316	1705788	4
Selenium		2.06	0.375	1.04	mg/kg	97.3	2					
Thallium	U	ND	0.146	0.417	mg/kg	97.3	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-21

Sample ID: 432865021

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-22	Project: URSC00211
Sample ID: 432865022	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 5.97%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.025	0.00422	0.0126	mg/kg	59.3	1	MTM1	09/20/17	1137	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.323	0.978	mg/kg	91.9	1	LS	09/20/17	1427	1701882	2
Barium		39.1	0.0978	0.489	mg/kg	91.9	1					
Cadmium	J	0.304	0.0978	0.489	mg/kg	91.9	1					
Chromium		11.3	0.147	0.489	mg/kg	91.9	1					
Cobalt		10.6	0.147	0.489	mg/kg	91.9	1					
Iron		31100	7.82	24.4	mg/kg	91.9	1					
Manganese		723	0.196	0.978	mg/kg	91.9	1					
Nickel		21.9	0.147	0.489	mg/kg	91.9	1					
Silver	J	0.414	0.0978	0.489	mg/kg	91.9	1					
Zinc		129	0.391	0.978	mg/kg	91.9	1					
Lead		12.9	0.323	0.978	mg/kg	91.9	1	LS	09/25/17	1458	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		6.83	0.359	1.06	mg/kg	100	2	PRB	10/03/17	1318	1705788	4
Selenium		1.63	0.383	1.06	mg/kg	100	2					
Thallium	U	ND	0.149	0.425	mg/kg	100	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-22

Sample ID: 432865022

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-23	Project:	URSC00211
Sample ID:	432865023	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.021	0.00384	0.0115	mg/kg	54.0	1	MTM1	09/20/17	1138	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.333	1.01	mg/kg	95.1	1	LS	09/20/17	1429	1701882	2
Barium		42.9	0.101	0.505	mg/kg	95.1	1					
Cadmium	J	0.228	0.101	0.505	mg/kg	95.1	1					
Chromium		15.1	0.152	0.505	mg/kg	95.1	1					
Cobalt		9.79	0.152	0.505	mg/kg	95.1	1					
Iron		27300	8.08	25.3	mg/kg	95.1	1					
Manganese		588	0.202	1.01	mg/kg	95.1	1					
Nickel		23.7	0.152	0.505	mg/kg	95.1	1					
Silver	J	0.356	0.101	0.505	mg/kg	95.1	1					
Zinc		100	0.404	1.01	mg/kg	95.1	1					
Lead		15.6	0.333	1.01	mg/kg	95.1	1	LS	09/25/17	1500	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		6.53	0.349	1.03	mg/kg	97.3	2	PRB	10/03/17	1320	1705788	4
Selenium		1.72	0.372	1.03	mg/kg	97.3	2					
Thallium	U	ND	0.145	0.413	mg/kg	97.3	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-23

Sample ID: 432865023

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-24	Project:	URSC00211
Sample ID:	432865024	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.96%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Mercury Analysis-CVAA												
7471 Cold Vapor Hg in Solid "Dry Weight Corrected"												
Mercury		0.0196	0.00423	0.0126	mg/kg	58.7	1	MTM1	09/20/17	1140	1701857	1
Metals Analysis-ICP												
SW846 3050B/6010C Solid "Dry Weight Corrected"												
Antimony	U	ND	0.341	1.03	mg/kg	96.2	1	LS	09/20/17	1431	1701882	2
Barium		37.4	0.103	0.517	mg/kg	96.2	1					
Cadmium	U	ND	0.103	0.517	mg/kg	96.2	1					
Chromium		13.3	0.155	0.517	mg/kg	96.2	1					
Cobalt		8.75	0.155	0.517	mg/kg	96.2	1					
Iron		23700	8.27	25.8	mg/kg	96.2	1					
Manganese		505	0.207	1.03	mg/kg	96.2	1					
Nickel		19.8	0.155	0.517	mg/kg	96.2	1					
Silver	J	0.397	0.103	0.517	mg/kg	96.2	1					
Zinc		83.2	0.413	1.03	mg/kg	96.2	1					
Lead		11.5	0.341	1.03	mg/kg	96.2	1	LS	09/25/17	1502	1701882	3
Metals Analysis-ICP-MS												
6020 MIMICP SCAN Metals "Dry Weight Corrected"												
Arsenic		4.75	0.350	1.04	mg/kg	96.3	2	PRB	10/03/17	1322	1705788	4
Selenium		1.54	0.373	1.04	mg/kg	96.3	2					
Thallium	U	ND	0.145	0.414	mg/kg	96.3	2					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3050B	ICP-MS 3050BS PREP	JXM8	10/02/17	1630	1705787
SW846 3050B	SW846 3050B Prep	JXM8	09/19/17	1348	1701879
SW846 7471A Prep	EPA 7471A Mercury Prep Soil	AXS5	09/19/17	1540	1701852

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 7471A	
2	SW846 3050B/6010C	
3	SW846 3050B/6010C	
4	SW846 3050B/6020	

Notes:

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Certificate of Analysis

Report Date: October 3, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-24	Project:	URSC00211
Sample ID:	432865024	Client ID:	URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

PCB Analysis

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-18	Project:	URSC00211
Sample ID:	432865018	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	7.31%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.20	3.59	ug/kg	0.0333	1	JXM	09/21/17	1407	1702060	1
Aroclor-1221	U	ND	1.20	3.59	ug/kg	0.0333	1					
Aroclor-1232	U	ND	1.20	3.59	ug/kg	0.0333	1					
Aroclor-1242	U	ND	1.20	3.59	ug/kg	0.0333	1					
Aroclor-1248	U	ND	1.20	3.59	ug/kg	0.0333	1					
Aroclor-1254	U	ND	1.20	3.59	ug/kg	0.0333	1					
Aroclor-1260	U	ND	1.20	3.59	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	4.48 ug/kg	7.18	62	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	5.53 ug/kg	7.18	77	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19	Project: URSC00211
Sample ID: 432865019	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 6.35%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.18	3.55	ug/kg	0.0332	1	JXM	09/21/17	1426	1702060	1
Aroclor-1221	U	ND	1.18	3.55	ug/kg	0.0332	1					
Aroclor-1232	U	ND	1.18	3.55	ug/kg	0.0332	1					
Aroclor-1242	U	ND	1.18	3.55	ug/kg	0.0332	1					
Aroclor-1248	U	ND	1.18	3.55	ug/kg	0.0332	1					
Aroclor-1254	U	ND	1.18	3.55	ug/kg	0.0332	1					
Aroclor-1260	U	ND	1.18	3.55	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	4.50 ug/kg	7.10	63	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	5.69 ug/kg	7.10	80	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-20	Project:	URSC00211
Sample ID:	432865020	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.18	3.54	ug/kg	0.0333	1	JXM	09/21/17	1446	1702060	1
Aroclor-1221	U	ND	1.18	3.54	ug/kg	0.0333	1					
Aroclor-1232	U	ND	1.18	3.54	ug/kg	0.0333	1					
Aroclor-1242	U	ND	1.18	3.54	ug/kg	0.0333	1					
Aroclor-1248	U	ND	1.18	3.54	ug/kg	0.0333	1					
Aroclor-1254	U	ND	1.18	3.54	ug/kg	0.0333	1					
Aroclor-1260	U	ND	1.18	3.54	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	4.51 ug/kg	7.09	64	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.04 ug/kg	7.09	85	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-21	Project:	URSC00211
Sample ID:	432865021	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.64%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.18	3.56	ug/kg	0.0332	1	JXM	09/21/17	1505	1702060	1
Aroclor-1221	U	ND	1.18	3.56	ug/kg	0.0332	1					
Aroclor-1232	U	ND	1.18	3.56	ug/kg	0.0332	1					
Aroclor-1242	U	ND	1.18	3.56	ug/kg	0.0332	1					
Aroclor-1248	U	ND	1.18	3.56	ug/kg	0.0332	1					
Aroclor-1254	U	ND	1.18	3.56	ug/kg	0.0332	1					
Aroclor-1260	U	ND	1.18	3.56	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	4.90 ug/kg	7.12	69	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.54 ug/kg	7.12	92	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-22	Project:	URSC00211
Sample ID:	432865022	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.97%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.18	3.53	ug/kg	0.0332	1	JXM	09/21/17	1525	1702060	1
Aroclor-1221	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1232	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1242	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1248	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1254	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1260	U	ND	1.18	3.53	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	5.13 ug/kg	7.07	73	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.22 ug/kg	7.07	88	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-23	Project:	URSC00211
Sample ID:	432865023	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.18	3.53	ug/kg	0.0332	1	JXM	09/21/17	1544	1702060	1
Aroclor-1221	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1232	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1242	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1248	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1254	U	ND	1.18	3.53	ug/kg	0.0332	1					
Aroclor-1260	U	ND	1.18	3.53	ug/kg	0.0332	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.06 ug/kg	7.07	86	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.90 ug/kg	7.07	98	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

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2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 22, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-24	Project: URSC00211
Sample ID: 432865024	Client ID: URSC013
Matrix: Soil	
Collect Date: 14-SEP-17 08:30	
Receive Date: 15-SEP-17	
Collector: Client	
Moisture: 6.96%	

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-PCB												
SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"												
Aroclor-1016	U	ND	1.19	3.58	ug/kg	0.0333	1	JXM	09/21/17	1708	1702060	1
Aroclor-1221	U	ND	1.19	3.58	ug/kg	0.0333	1					
Aroclor-1232	U	ND	1.19	3.58	ug/kg	0.0333	1					
Aroclor-1242	U	ND	1.19	3.58	ug/kg	0.0333	1					
Aroclor-1248	U	ND	1.19	3.58	ug/kg	0.0333	1					
Aroclor-1254	U	ND	1.19	3.58	ug/kg	0.0333	1					
Aroclor-1260	U	ND	1.19	3.58	ug/kg	0.0333	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 PCB Prep Soil	SJW1	09/20/17	1053	1702058

The following Analytical Methods were performed:

Method	Description	Analyst Comments				
1	SW846 3541/8082A					

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	5.31 ug/kg	7.15	74	(30%-120%)
Decachlorobiphenyl	SW846 3541/8082A PCB Solid Automated Soxhlet "Dry Weight Corrected"	6.60 ug/kg	7.15	92	(32%-139%)

Notes:

Column headers are defined as follows:

DF: Dilution Factor	Lc/LC: Critical Level
DL: Detection Limit	PF: Prep Factor
MDA: Minimum Detectable Activity	RL: Reporting Limit
MDC: Minimum Detectable Concentration	SQL: Sample Quantitation Limit

Pesticide Analysis

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-18	Project:	URSC00211
Sample ID:	432865018	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	7.31%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.359	1.44	ug/kg	0.166	1	LOF	09/20/17	2139	1701986	1
4,4'-DDE	U	ND	0.359	1.44	ug/kg	0.166	1					
4,4'-DDT	U	ND	0.359	1.44	ug/kg	0.166	1					
Aldrin	U	ND	0.179	0.718	ug/kg	0.166	1					
Chlordane	U	ND	1.79	8.97	ug/kg	0.166	1					
Dieldrin	U	ND	0.359	1.44	ug/kg	0.166	1					
Endosulfan I	U	ND	0.179	0.718	ug/kg	0.166	1					
Endosulfan II	U	ND	0.359	1.44	ug/kg	0.166	1					
Endosulfan sulfate	U	ND	0.359	1.44	ug/kg	0.166	1					
Endrin	U	ND	0.359	1.44	ug/kg	0.166	1					
Endrin aldehyde	U	ND	0.359	1.44	ug/kg	0.166	1					
Endrin ketone	U	ND	0.359	1.44	ug/kg	0.166	1					
Heptachlor	U	ND	0.179	0.718	ug/kg	0.166	1					
Heptachlor epoxide	U	ND	0.179	0.718	ug/kg	0.166	1					
Methoxychlor	U	ND	1.79	7.18	ug/kg	0.166	1					
Toxaphene	U	ND	5.97	17.9	ug/kg	0.166	1					
alpha-BHC	U	ND	0.179	0.718	ug/kg	0.166	1					
beta-BHC	U	ND	0.179	0.718	ug/kg	0.166	1					
delta-BHC	U	ND	0.179	0.718	ug/kg	0.166	1					
gamma-BHC (Lindane)	U	ND	0.179	0.718	ug/kg	0.166	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	23.9 ug/kg	35.9	67	(30%-136%)
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	21.9 ug/kg	35.9	61	(27%-121%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-18

Sample ID: 432865018

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-19	Project:	URSC00211
Sample ID:	432865019	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.35%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.356	1.42	ug/kg	0.167	1	LOF	09/20/17	2155	1701986	1
4,4'-DDE	U	ND	0.356	1.42	ug/kg	0.167	1					
4,4'-DDT	U	ND	0.356	1.42	ug/kg	0.167	1					
Aldrin	U	ND	0.178	0.711	ug/kg	0.167	1					
Chlordane	U	ND	1.78	8.89	ug/kg	0.167	1					
Dieldrin	U	ND	0.356	1.42	ug/kg	0.167	1					
Endosulfan I	U	ND	0.178	0.711	ug/kg	0.167	1					
Endosulfan II	U	ND	0.356	1.42	ug/kg	0.167	1					
Endosulfan sulfate	U	ND	0.356	1.42	ug/kg	0.167	1					
Endrin	U	ND	0.356	1.42	ug/kg	0.167	1					
Endrin aldehyde	U	ND	0.356	1.42	ug/kg	0.167	1					
Endrin ketone	U	ND	0.356	1.42	ug/kg	0.167	1					
Heptachlor	U	ND	0.178	0.711	ug/kg	0.167	1					
Heptachlor epoxide	U	ND	0.178	0.711	ug/kg	0.167	1					
Methoxychlor	U	ND	1.78	7.11	ug/kg	0.167	1					
Toxaphene	U	ND	5.92	17.8	ug/kg	0.167	1					
alpha-BHC	U	ND	0.178	0.711	ug/kg	0.167	1					
beta-BHC	U	ND	0.178	0.711	ug/kg	0.167	1					
delta-BHC	U	ND	0.178	0.711	ug/kg	0.167	1					
gamma-BHC (Lindane)	U	ND	0.178	0.711	ug/kg	0.167	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	35.0 ug/kg	35.6	98	(30%-136%)
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	35.4 ug/kg	35.6	100	(27%-121%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Contact: Niskayuna, New York 12309
Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-19

Sample ID: 432865019

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-20	Project:	URSC00211
Sample ID:	432865020	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.98%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.354	1.42	ug/kg	0.167	1	LOF	09/20/17	2211	1701986	1
4,4'-DDE	U	ND	0.354	1.42	ug/kg	0.167	1					
4,4'-DDT	U	ND	0.354	1.42	ug/kg	0.167	1					
Aldrin	U	ND	0.177	0.709	ug/kg	0.167	1					
Chlordane	U	ND	1.77	8.86	ug/kg	0.167	1					
Dieldrin	U	ND	0.354	1.42	ug/kg	0.167	1					
Endosulfan I	U	ND	0.177	0.709	ug/kg	0.167	1					
Endosulfan II	U	ND	0.354	1.42	ug/kg	0.167	1					
Endosulfan sulfate	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin aldehyde	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin ketone	U	ND	0.354	1.42	ug/kg	0.167	1					
Heptachlor	U	ND	0.177	0.709	ug/kg	0.167	1					
Heptachlor epoxide	U	ND	0.177	0.709	ug/kg	0.167	1					
Methoxychlor	U	ND	1.77	7.09	ug/kg	0.167	1					
Toxaphene	U	ND	5.90	17.7	ug/kg	0.167	1					
alpha-BHC	U	ND	0.177	0.709	ug/kg	0.167	1					
beta-BHC	U	ND	0.177	0.709	ug/kg	0.167	1					
delta-BHC	U	ND	0.177	0.709	ug/kg	0.167	1					
gamma-BHC (Lindane)	U	ND	0.177	0.709	ug/kg	0.167	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	35.0 ug/kg	35.4	99	(30%-136%)
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	34.4 ug/kg	35.4	97	(27%-121%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-20

Sample ID: 432865020

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-21	Project:	URSC00211
Sample ID:	432865021	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.64%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.357	1.43	ug/kg	0.166	1	LOF	09/20/17	2332	1701986	1
4,4'-DDE	U	ND	0.357	1.43	ug/kg	0.166	1					
4,4'-DDT	U	ND	0.357	1.43	ug/kg	0.166	1					
Aldrin	U	ND	0.178	0.713	ug/kg	0.166	1					
Chlordane	U	ND	1.78	8.92	ug/kg	0.166	1					
Dieldrin	U	ND	0.357	1.43	ug/kg	0.166	1					
Endosulfan I	U	ND	0.178	0.713	ug/kg	0.166	1					
Endosulfan II	U	ND	0.357	1.43	ug/kg	0.166	1					
Endosulfan sulfate	U	ND	0.357	1.43	ug/kg	0.166	1					
Endrin	U	ND	0.357	1.43	ug/kg	0.166	1					
Endrin aldehyde	U	ND	0.357	1.43	ug/kg	0.166	1					
Endrin ketone	U	ND	0.357	1.43	ug/kg	0.166	1					
Heptachlor	U	ND	0.178	0.713	ug/kg	0.166	1					
Heptachlor epoxide	U	ND	0.178	0.713	ug/kg	0.166	1					
Methoxychlor	U	ND	1.78	7.13	ug/kg	0.166	1					
Toxaphene	U	ND	5.94	17.8	ug/kg	0.166	1					
alpha-BHC	U	ND	0.178	0.713	ug/kg	0.166	1					
beta-BHC	U	ND	0.178	0.713	ug/kg	0.166	1					
delta-BHC	U	ND	0.178	0.713	ug/kg	0.166	1					
gamma-BHC (Lindane)	U	ND	0.178	0.713	ug/kg	0.166	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	29.6 ug/kg	35.7	83	(30%-136%)
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	30.1 ug/kg	35.7	84	(27%-121%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-22	Project:	URSC00211
Sample ID:	432865022	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.97%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.354	1.42	ug/kg	0.167	1	LOF	09/20/17	2348	1701986	1
4,4'-DDE	U	ND	0.354	1.42	ug/kg	0.167	1					
4,4'-DDT	U	ND	0.354	1.42	ug/kg	0.167	1					
Aldrin	U	ND	0.177	0.708	ug/kg	0.167	1					
Chlordane	U	ND	1.77	8.85	ug/kg	0.167	1					
Dieldrin	U	ND	0.354	1.42	ug/kg	0.167	1					
Endosulfan I	U	ND	0.177	0.708	ug/kg	0.167	1					
Endosulfan II	U	ND	0.354	1.42	ug/kg	0.167	1					
Endosulfan sulfate	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin aldehyde	U	ND	0.354	1.42	ug/kg	0.167	1					
Endrin ketone	U	ND	0.354	1.42	ug/kg	0.167	1					
Heptachlor	U	ND	0.177	0.708	ug/kg	0.167	1					
Heptachlor epoxide	U	ND	0.177	0.708	ug/kg	0.167	1					
Methoxychlor	U	ND	1.77	7.08	ug/kg	0.167	1					
Toxaphene	U	ND	5.90	17.7	ug/kg	0.167	1					
alpha-BHC	U	ND	0.177	0.708	ug/kg	0.167	1					
beta-BHC	U	ND	0.177	0.708	ug/kg	0.167	1					
delta-BHC	U	ND	0.177	0.708	ug/kg	0.167	1					
gamma-BHC (Lindane)	U	ND	0.177	0.708	ug/kg	0.167	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	18.6 ug/kg	35.4	53	(27%-121%)
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	19.2 ug/kg	35.4	54	(30%-136%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-23	Project:	URSC00211
Sample ID:	432865023	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	5.89%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.353	1.41	ug/kg	0.166	1	LOF	09/21/17	0004	1701986	1
4,4'-DDE	U	ND	0.353	1.41	ug/kg	0.166	1					
4,4'-DDT	U	ND	0.353	1.41	ug/kg	0.166	1					
Aldrin	U	ND	0.177	0.707	ug/kg	0.166	1					
Chlordane	U	ND	1.77	8.83	ug/kg	0.166	1					
Dieldrin	U	ND	0.353	1.41	ug/kg	0.166	1					
Endosulfan I	U	ND	0.177	0.707	ug/kg	0.166	1					
Endosulfan II	U	ND	0.353	1.41	ug/kg	0.166	1					
Endosulfan sulfate	U	ND	0.353	1.41	ug/kg	0.166	1					
Endrin	U	ND	0.353	1.41	ug/kg	0.166	1					
Endrin aldehyde	U	ND	0.353	1.41	ug/kg	0.166	1					
Endrin ketone	U	ND	0.353	1.41	ug/kg	0.166	1					
Heptachlor	U	ND	0.177	0.707	ug/kg	0.166	1					
Heptachlor epoxide	U	ND	0.177	0.707	ug/kg	0.166	1					
Methoxychlor	U	ND	1.77	7.07	ug/kg	0.166	1					
Toxaphene	U	ND	5.88	17.7	ug/kg	0.166	1					
alpha-BHC	U	ND	0.177	0.707	ug/kg	0.166	1					
beta-BHC	U	ND	0.177	0.707	ug/kg	0.166	1					
delta-BHC	U	ND	0.177	0.707	ug/kg	0.166	1					
gamma-BHC (Lindane)	U	ND	0.177	0.707	ug/kg	0.166	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	30.4 ug/kg	35.3	86	(27%-121%)
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	30.8 ug/kg	35.3	87	(30%-136%)

Notes:

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309
Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID: Soil-23

Sample ID: 432865023

Project: URSC00211

Client ID: URSC013

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
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Column headers are defined as follows:

DF: Dilution Factor

DL: Detection Limit

MDA: Minimum Detectable Activity

MDC: Minimum Detectable Concentration

Lc/LC: Critical Level

PF: Prep Factor

RL: Reporting Limit

SQL: Sample Quantitation Limit

GEL LABORATORIES LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Report Date: September 26, 2017

Company : URS
Address : 2425 River Road (c/o SPRU DP)

Niskayuna, New York 12309

Contact: Mr. Jason Litwiller
Project: SPRU Disposition Project

Client Sample ID:	Soil-24	Project:	URSC00211
Sample ID:	432865024	Client ID:	URSC013
Matrix:	Soil		
Collect Date:	14-SEP-17 08:30		
Receive Date:	15-SEP-17		
Collector:	Client		
Moisture:	6.96%		

Parameter	Qualifier	Result	DL	RL	Units	PF	DF	Analyst	Date	Time	Batch	Method
Semi-Volatiles-Pesticide												
8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"												
4,4'-DDD	U	ND	0.358	1.43	ug/kg	0.166	1	LOF	09/21/17	0020	1701986	1
4,4'-DDE	U	ND	0.358	1.43	ug/kg	0.166	1					
4,4'-DDT	U	ND	0.358	1.43	ug/kg	0.166	1					
Aldrin	U	ND	0.179	0.716	ug/kg	0.166	1					
Chlordane	U	ND	1.79	8.95	ug/kg	0.166	1					
Dieldrin	U	ND	0.358	1.43	ug/kg	0.166	1					
Endosulfan I	U	ND	0.179	0.716	ug/kg	0.166	1					
Endosulfan II	U	ND	0.358	1.43	ug/kg	0.166	1					
Endosulfan sulfate	U	ND	0.358	1.43	ug/kg	0.166	1					
Endrin	U	ND	0.358	1.43	ug/kg	0.166	1					
Endrin aldehyde	U	ND	0.358	1.43	ug/kg	0.166	1					
Endrin ketone	U	ND	0.358	1.43	ug/kg	0.166	1					
Heptachlor	U	ND	0.179	0.716	ug/kg	0.166	1					
Heptachlor epoxide	U	ND	0.179	0.716	ug/kg	0.166	1					
Methoxychlor	U	ND	1.79	7.16	ug/kg	0.166	1					
Toxaphene	U	ND	5.96	17.9	ug/kg	0.166	1					
alpha-BHC	U	ND	0.179	0.716	ug/kg	0.166	1					
beta-BHC	U	ND	0.179	0.716	ug/kg	0.166	1					
delta-BHC	U	ND	0.179	0.716	ug/kg	0.166	1					
gamma-BHC (Lindane)	U	ND	0.179	0.716	ug/kg	0.166	1					

The following Prep Methods were performed:

Method	Description	Analyst	Date	Time	Prep Batch
SW846 3541	Prep Method 3541 Pest Prep Soil	MXD2	09/20/17	0849	1701985

The following Analytical Methods were performed:

Method	Description	Analyst Comments
1	SW846 3541/8081A	
2	SW846 3541/8081A	

Surrogate/Tracer Recovery	Test	Result	Nominal	Recovery%	Acceptable Limits
4cmx	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	34.4 ug/kg	35.8	96	(27%-121%)
Decachlorobiphenyl	8081A/3541 Pesticide Soil Automated Soxhlet "Dry Weight Corrected"	35.6 ug/kg	35.8	99	(30%-136%)

Notes:

