CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Hit Summary Sheet
SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:	**MW-01**							
P1747-01	MW-01	Water	Chloroform	31.0		0.26	1.00	ug/L
P1747-01	MW-01	Water	Bromodichloromethane	2.90		0.24	1.00	ug/L
			Total Voc :	33.9				
			Total Concentration:	33.9				
Client ID:	**MW-01-DUP**							
P1747-02	MW-01-DUP	Water	Acetone	2.30	J	1.40	5.00	ug/L
P1747-02	MW-01-DUP	Water	Chloroform	31.4		0.26	1.00	ug/L
P1747-02	MW-01-DUP	Water	Bromodichloromethane	2.90		0.24	1.00	ug/L
			Total Voc :	36.6				
			Total Concentration:	36.6				
Client ID:	**TWP-04**							
P1747-05	TWP-04	Water	Acetone	2.60	J	1.40	5.00	ug/L
			Total Voc :	2.60				
			Total Concentration:	2.60				

CHEMTECH

A
B
C
D

SAMPLE DATA

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081412.D	1		03/14/24 16:05	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	31.0		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	2.90		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081412.D	1		03/14/24 16:05	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	52.5		74 - 125	105%	SPK: 50
1868-53-7	Dibromofluoromethane	52.4		75 - 124	105%	SPK: 50
2037-26-5	Toluene-d8	52.2		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.9		64 - 133	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	304000	8.23			
540-36-3	1,4-Difluorobenzene	552000	9.106			
3114-55-4	Chlorobenzene-d5	484000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	192000	13.794			

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081412.D	1		03/14/24 16:05	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081413.D	1		03/14/24 16:29	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.30	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	31.4		0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	2.90		0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081413.D	1		03/14/24 16:29	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.3		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.0		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	52.3		86 - 113	105%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.7		64 - 133	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	297000	8.23			
540-36-3	1,4-Difluorobenzene	548000	9.106			
3114-55-4	Chlorobenzene-d5	468000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	179000	13.794			

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081413.D	1		03/14/24 16:29	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081414.D	1		03/14/24 16:53	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081414.D	1		03/14/24 16:53	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.2		75 - 124	104%	SPK: 50
2037-26-5	Toluene-d8	51.7		86 - 113	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		64 - 133	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	288000	8.23			
540-36-3	1,4-Difluorobenzene	536000	9.106			
3114-55-4	Chlorobenzene-d5	460000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	180000	13.794			

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081414.D	1		03/14/24 16:53	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081415.D	1		03/14/24 17:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	2.60	J	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081415.D	1		03/14/24 17:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.4		74 - 125	107%	SPK: 50
1868-53-7	Dibromofluoromethane	52.9		75 - 124	106%	SPK: 50
2037-26-5	Toluene-d8	51.8		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.8		64 - 133	94%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	294000	8.23			
540-36-3	1,4-Difluorobenzene	538000	9.106			
3114-55-4	Chlorobenzene-d5	468000	11.871			
3855-82-1	1,4-Dichlorobenzene-d4	183000	13.794			

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081415.D	1		03/14/24 17:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TRIP-BLANK-1	SDG No.:	P1747
Lab Sample ID:	P1747-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081410.D	1		03/14/24 15:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
75-71-8	Dichlorodifluoromethane	0.21	U	0.21	1.00	ug/L
74-87-3	Chloromethane	0.35	U	0.35	1.00	ug/L
75-01-4	Vinyl Chloride	0.34	U	0.34	1.00	ug/L
74-83-9	Bromomethane	1.40	U	1.40	5.00	ug/L
75-00-3	Chloroethane	0.56	U	0.56	1.00	ug/L
75-69-4	Trichlorofluoromethane	0.34	U	0.34	1.00	ug/L
76-13-1	1,1,2-Trichlorotrifluoroethane	0.25	U	0.25	1.00	ug/L
75-35-4	1,1-Dichloroethene	0.26	U	0.26	1.00	ug/L
67-64-1	Acetone	1.40	U	1.40	5.00	ug/L
75-15-0	Carbon Disulfide	0.32	U	0.32	1.00	ug/L
1634-04-4	Methyl tert-butyl Ether	0.16	U	0.16	1.00	ug/L
79-20-9	Methyl Acetate	0.60	U	0.60	1.00	ug/L
75-09-2	Methylene Chloride	0.32	U	0.32	1.00	ug/L
156-60-5	trans-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
75-34-3	1,1-Dichloroethane	0.23	U	0.23	1.00	ug/L
110-82-7	Cyclohexane	1.60	U	1.60	5.00	ug/L
78-93-3	2-Butanone	1.30	U	1.30	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.25	U	0.25	1.00	ug/L
156-59-2	cis-1,2-Dichloroethene	0.25	U	0.25	1.00	ug/L
74-97-5	Bromochloromethane	0.18	U	0.18	1.00	ug/L
67-66-3	Chloroform	0.26	U	0.26	1.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.19	U	0.19	1.00	ug/L
108-87-2	Methylcyclohexane	0.19	U	0.19	1.00	ug/L
71-43-2	Benzene	0.16	U	0.16	1.00	ug/L
107-06-2	1,2-Dichloroethane	0.24	U	0.24	1.00	ug/L
79-01-6	Trichloroethene	0.32	U	0.32	1.00	ug/L
78-87-5	1,2-Dichloropropane	0.19	U	0.19	1.00	ug/L
75-27-4	Bromodichloromethane	0.24	U	0.24	1.00	ug/L
108-10-1	4-Methyl-2-Pentanone	0.75	U	0.75	5.00	ug/L
108-88-3	Toluene	0.18	U	0.18	1.00	ug/L
10061-02-6	t-1,3-Dichloropropene	0.21	U	0.21	1.00	ug/L
10061-01-5	cis-1,3-Dichloropropene	0.18	U	0.18	1.00	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TRIP-BLANK-1	SDG No.:	P1747
Lab Sample ID:	P1747-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081410.D	1		03/14/24 15:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
79-00-5	1,1,2-Trichloroethane	0.21	U	0.21	1.00	ug/L
591-78-6	2-Hexanone	1.10	U	1.10	5.00	ug/L
124-48-1	Dibromochloromethane	0.18	U	0.18	1.00	ug/L
106-93-4	1,2-Dibromoethane	0.16	U	0.16	1.00	ug/L
127-18-4	Tetrachloroethene	0.25	U	0.25	1.00	ug/L
108-90-7	Chlorobenzene	0.13	U	0.13	1.00	ug/L
100-41-4	Ethyl Benzene	0.16	U	0.16	1.00	ug/L
179601-23-1	m/p-Xylenes	0.31	U	0.31	2.00	ug/L
95-47-6	o-Xylene	0.14	U	0.14	1.00	ug/L
100-42-5	Styrene	0.16	U	0.16	1.00	ug/L
75-25-2	Bromoform	0.21	U	0.21	1.00	ug/L
98-82-8	Isopropylbenzene	0.13	U	0.13	1.00	ug/L
79-34-5	1,1,2,2-Tetrachloroethane	0.27	U	0.27	1.00	ug/L
541-73-1	1,3-Dichlorobenzene	0.24	U	0.24	1.00	ug/L
106-46-7	1,4-Dichlorobenzene	0.27	U	0.27	1.00	ug/L
95-50-1	1,2-Dichlorobenzene	0.19	U	0.19	1.00	ug/L
96-12-8	1,2-Dibromo-3-Chloropropane	0.46	U	0.46	1.00	ug/L
120-82-1	1,2,4-Trichlorobenzene	0.42	U	0.42	1.00	ug/L
87-61-6	1,2,3-Trichlorobenzene	0.51	U	0.51	1.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.5		74 - 125	99%	SPK: 50
1868-53-7	Dibromofluoromethane	51.3		75 - 124	103%	SPK: 50
2037-26-5	Toluene-d8	52.1		86 - 113	104%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.4		64 - 133	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	345000	8.224			
540-36-3	1,4-Difluorobenzene	628000	9.106			
3114-55-4	Chlorobenzene-d5	533000	11.87			
3855-82-1	1,4-Dichlorobenzene-d4	206000	13.794			

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TRIP-BLANK-1	SDG No.:	P1747
Lab Sample ID:	P1747-06	Matrix:	Water
Analytical Method:	SW8260	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-TCLVOA-10
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VN081410.D	1		03/14/24 15:17	VN031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			VOC-TCLVOA-10	8260-Low			03/14/24	
P1747-02	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			VOC-TCLVOA-10	8260-Low			03/14/24	
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			VOC-NYCD	624.1			03/14/24	
P1747-04	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			VOC-TCLVOA-10	8260-Low			03/14/24	
P1747-05	**TWP-04**	**Water**			**03/12/24**			**03/13/24**
			VOC-TCLVOA-10	8260-Low			03/14/24	
P1747-06	**TRIP-BLANK-1**	**Water**			**03/12/24**			**03/13/24**
			VOC-TCLVOA-10	8260-Low			03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID:								
				0				

Total Voc :

Total Concentration:

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A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	Water
Analytical Method:	E624.1	% Solid:	0
Sample Wt/Vol:	5 Units: mL	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOC-NYCD
GC Column:	DB-624UI ID : 0.18	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VX040637.D	1		03/14/24 12:46	VX031424

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
1634-04-4	Methyl tert-Butyl Ether	0.83	U	0.83	5.00	ug/L
56-23-5	Carbon Tetrachloride	0.91	U	0.91	5.00	ug/L
67-66-3	Chloroform	0.72	U	0.72	5.00	ug/L
71-55-6	1,1,1-Trichloroethane	0.79	U	0.79	5.00	ug/L
71-43-2	Benzene	0.69	U	0.69	5.00	ug/L
108-88-3	Toluene	0.72	U	0.72	5.00	ug/L
127-18-4	Tetrachloroethene	0.94	U	0.94	5.00	ug/L
100-41-4	Ethyl Benzene	0.73	U	0.73	5.00	ug/L
1330-20-7	Total Xylenes	2.52	U	2.52	15.0	ug/L
106-46-7	1,4-Dichlorobenzene	0.95	U	0.95	5.00	ug/L
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	30.6		91 - 110	102%	SPK: 30
2037-26-5	Toluene-d8	29.7		91 - 112	99%	SPK: 30
460-00-4	4-Bromofluorobenzene	29.1		63 - 112	97%	SPK: 30
INTERNAL STANDARDS						
74-97-5	Bromochloromethane	15500	4.897			
540-36-3	1,4-Difluorobenzene	88100	6.763			
3114-55-4	Chlorobenzene-d5	81800	10.055			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CHEMTECH

284 Sheffield Street, Mountainside, New Jersey - 07092

Phone: (908) 789 8900 Fax: (908) 789 8922

LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			VOC-NYCD	624.1			03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Sample ID	Client ID		Parameter		Concentration	C	MDL	RDL	Units
Client ID : MW-01									
P1747-01	MW-01	WATER	1-Heptacosanol	*	2.500	J	0	0	ug/L
P1747-01	MW-01	WATER	2-(Methylmercapto)benzothiazole	*	13.900	J	0	0	ug/L
P1747-01	MW-01	WATER	3,5-Dichloro-6-cyanopyridin-2-yl	*	4.900	J	0	0	ug/L
P1747-01	MW-01	WATER	Diethyltoluamide	*	9.000	J	0	0	ug/L
P1747-01	MW-01	WATER	N-Cyclohexyl-N-methylurea, N-m	*	3.500	J	0	0	ug/L
P1747-01	MW-01	WATER	n-Hexadecanoic acid	*	2.200	J	0	0	ug/L
P1747-01	MW-01	WATER	unknown17.582	*	2.800	J	0	0	ug/L
			Total Tics :				**38.80**		
			Total Concentration:				**38.80**		
Client ID : MW-01-DUP									
P1747-02	MW-01-DUP	WATER	2-(Methylmercapto)benzothiazole	*	14.400	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	Benzamide, 3-methyl-N-methyl-N	*	9.300	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	N-Cyclohexyl-N-methylurea, N-m	*	3.400	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	n-Hexadecanoic acid	*	2.200	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	Pentadecafluorooctanoic acid, oct	*	2.100	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	unknown12.413	*	5.100	J	0	0	ug/L
P1747-02	MW-01-DUP	WATER	unknown17.853	*	3.000	J	0	0	ug/L
			Total Tics :				**39.50**		
			Total Concentration:				**39.50**		
Client ID : MW-02									
P1747-04	MW-02	WATER	n-Hexadecanoic acid	*	2.500	J	0	0	ug/L
			Total Tics :				**2.50**		
			Total Concentration:				**2.50**		
Client ID : TWP-04									
P1747-05	TWP-04	WATER	unknown16.374	*	2.200	J	0	0	ug/L
			Total Tics :				**2.20**		
			Total Concentration:				**2.20**		

CHEMTECH

A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060643.D	1	03/14/24 10:06	03/14/24 17:55	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	U	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060643.D	1	03/14/24 10:06	03/14/24 17:55	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060643.D	1	03/14/24 10:06	03/14/24 17:55	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.7		10 - 139	42%	SPK: 150
13127-88-3	Phenol-d6	38.1		10 - 134	25%	SPK: 150
4165-60-0	Nitrobenzene-d5	93.5		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.6		52 - 132	91%	SPK: 100
118-79-6	2,4,6-Tribromophenol	149		32 - 145	99%	SPK: 150
1718-51-0	Terphenyl-d14	92.3		36 - 145	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	87900	8.322			
1146-65-2	Naphthalene-d8	407000	11.166			
15067-26-2	Acenaphthene-d10	278000	14.95			
1517-22-2	Phenanthrene-d10	593000	17.693			
1719-03-5	Chrysene-d12	504000	22.012			
1520-96-3	Perylene-d12	579000	25.567			
TENTATIVE IDENTIFIED COMPOUNDS						
1000305-58-3	3,5-Dichloro-6-cyanopyridin-2-yl d	4.90	J		12.4	ug/L
031468-12-9	N-Cyclohexyl-N-methylurea, N-met	3.50	J		15.1	ug/L
000134-62-3	Diethyltoluamide	9.00	J		15.7	ug/L
000615-22-5	2-(Methylmercapto)benzothiazole	13.9	J		16.2	ug/L
	unknown17.582	2.80	J		17.9	ug/L
000057-10-3	n-Hexadecanoic acid	2.20	J		18.5	ug/L
002004-39-9	1-Heptacosanol	2.50	J		23.1	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060643.D	1	03/14/24 10:06	03/14/24 17:55	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060644.D	1	03/14/24 10:06	03/14/24 18:36	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	U	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060644.D	1	03/14/24 10:06	03/14/24 18:36	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060644.D	1	03/14/24 10:06	03/14/24 18:36	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.5		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	35.7		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.7		49 - 133	93%	SPK: 100
321-60-8	2-Fluorobiphenyl	90.1		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		32 - 145	92%	SPK: 150
1718-51-0	Terphenyl-d14	86.1		36 - 145	86%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	95400	8.323			
1146-65-2	Naphthalene-d8	446000	11.167			
15067-26-2	Acenaphthene-d10	305000	14.945			
1517-22-2	Phenanthrene-d10	669000	17.695			
1719-03-5	Chrysene-d12	584000	22.007			
1520-96-3	Perylene-d12	663000	25.562			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown12.413	5.10	J		12.4	ug/L
031468-12-9	N-Cyclohexyl-N-methylurea, N-met	3.40	J		15.1	ug/L
1000421-46-2	Benzamide, 3-methyl-N-methyl-N-pr	9.30	J		15.7	ug/L
000615-22-5	2-(Methylmercapto)benzothiazole	14.4	J		16.2	ug/L
	unknown17.853	3.00	J		17.9	ug/L
000057-10-3	n-Hexadecanoic acid	2.20	J		18.5	ug/L
1000406-04-8	Pentadecafluorooctanoic acid, octa	2.10	J		23.1	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060644.D	1	03/14/24 10:06	03/14/24 18:36	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060645.D	1	03/14/24 10:06	03/14/24 19:17	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.00	U	4.00	10.1	ug/L
108-95-2	Phenol	0.94	U	0.94	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.1	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.50	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.89	U	0.89	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.1	ug/L
59-50-7	4-Chloro-3-methylphenol	0.85	U	0.85	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.10	U	1.10	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	U	5.10	10.1	ug/L
88-06-2	2,4,6-Trichlorophenol	0.90	U	0.90	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.92	U	0.92	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.98	U	0.98	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.94	U	0.94	5.10	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060645.D	1	03/14/24 10:06	03/14/24 19:17	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.82	U	0.82	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.50	U	6.50	10.1	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.1	ug/L
132-64-9	Dibenzofuran	0.94	U	0.94	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.50	U	1.50	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.99	U	0.99	5.10	ug/L
86-73-7	Fluorene	0.97	U	0.97	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.1	ug/L
86-30-6	n-Nitrosodiphenylamine	0.90	U	0.90	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.96	U	0.96	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.1	ug/L
85-01-8	Phenanthrene	0.90	U	0.90	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.1	ug/L
56-55-3	Benzo(a)anthracene	0.95	U	0.95	5.10	ug/L
218-01-9	Chrysene	0.87	U	0.87	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.50	U	2.50	10.1	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	990 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060645.D	1	03/14/24 10:06	03/14/24 19:17	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.80	U	0.80	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	49.2		10 - 139	33%	SPK: 150
13127-88-3	Phenol-d6	28.4		10 - 134	19%	SPK: 150
4165-60-0	Nitrobenzene-d5	90.1		49 - 133	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.2		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	103		32 - 145	69%	SPK: 150
1718-51-0	Terphenyl-d14	90.3		36 - 145	90%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	92600	8.322			
1146-65-2	Naphthalene-d8	433000	11.166			
15067-26-2	Acenaphthene-d10	306000	14.944			
1517-22-2	Phenanthrene-d10	647000	17.694			
1719-03-5	Chrysene-d12	547000	22.012			
1520-96-3	Perylene-d12	624000	25.561			
TENTATIVE IDENTIFIED COMPOUNDS						
000057-10-3	n-Hexadecanoic acid	2.50	J		18.5	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060646.D	1	03/14/24 10:06	03/14/24 19:57	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
100-52-7	Benzaldehyde	4.10	U	4.10	10.2	ug/L
108-95-2	Phenol	0.95	U	0.95	5.10	ug/L
111-44-4	bis(2-Chloroethyl)ether	1.20	U	1.20	5.10	ug/L
95-57-8	2-Chlorophenol	0.72	U	0.72	5.10	ug/L
95-48-7	2-Methylphenol	1.20	U	1.20	5.10	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.40	U	1.40	5.10	ug/L
98-86-2	Acetophenone	1.10	U	1.10	5.10	ug/L
65794-96-9	3+4-Methylphenols	1.20	U	1.20	10.2	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.50	U	1.50	2.60	ug/L
67-72-1	Hexachloroethane	1.00	U	1.00	5.10	ug/L
98-95-3	Nitrobenzene	1.30	U	1.30	5.10	ug/L
78-59-1	Isophorone	1.20	U	1.20	5.10	ug/L
88-75-5	2-Nitrophenol	2.00	U	2.00	5.10	ug/L
105-67-9	2,4-Dimethylphenol	1.50	U	1.50	5.10	ug/L
111-91-1	bis(2-Chloroethoxy)methane	1.00	U	1.00	5.10	ug/L
120-83-2	2,4-Dichlorophenol	0.90	U	0.90	5.10	ug/L
91-20-3	Naphthalene	1.00	U	1.00	5.10	ug/L
106-47-8	4-Chloroaniline	1.30	U	1.30	5.10	ug/L
87-68-3	Hexachlorobutadiene	1.30	U	1.30	5.10	ug/L
105-60-2	Caprolactam	1.70	U	1.70	10.2	ug/L
59-50-7	4-Chloro-3-methylphenol	0.86	U	0.86	5.10	ug/L
91-57-6	2-Methylnaphthalene	1.20	U	1.20	5.10	ug/L
77-47-4	Hexachlorocyclopentadiene	5.10	U	5.10	10.2	ug/L
88-06-2	2,4,6-Trichlorophenol	0.91	U	0.91	5.10	ug/L
95-95-4	2,4,5-Trichlorophenol	1.00	U	1.00	5.10	ug/L
92-52-4	1,1-Biphenyl	0.93	U	0.93	5.10	ug/L
91-58-7	2-Chloronaphthalene	0.99	U	0.99	5.10	ug/L
88-74-4	2-Nitroaniline	1.40	U	1.40	5.10	ug/L
131-11-3	Dimethylphthalate	0.95	U	0.95	5.10	ug/L
208-96-8	Acenaphthylene	1.10	U	1.10	5.10	ug/L
606-20-2	2,6-Dinitrotoluene	1.30	U	1.30	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060646.D	1	03/14/24 10:06	03/14/24 19:57	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
99-09-2	3-Nitroaniline	1.40	U	1.40	5.10	ug/L
83-32-9	Acenaphthene	0.83	U	0.83	5.10	ug/L
51-28-5	2,4-Dinitrophenol	6.60	U	6.60	10.2	ug/L
100-02-7	4-Nitrophenol	2.00	U	2.00	10.2	ug/L
132-64-9	Dibenzofuran	0.95	U	0.95	5.10	ug/L
121-14-2	2,4-Dinitrotoluene	1.60	U	1.60	5.10	ug/L
84-66-2	Diethylphthalate	1.10	U	1.10	5.10	ug/L
7005-72-3	4-Chlorophenyl-phenylether	1.00	U	1.00	5.10	ug/L
86-73-7	Fluorene	0.98	U	0.98	5.10	ug/L
100-01-6	4-Nitroaniline	2.10	U	2.10	5.10	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	3.10	U	3.10	10.2	ug/L
86-30-6	n-Nitrosodiphenylamine	0.91	U	0.91	5.10	ug/L
101-55-3	4-Bromophenyl-phenylether	0.97	U	0.97	5.10	ug/L
118-74-1	Hexachlorobenzene	1.20	U	1.20	5.10	ug/L
1912-24-9	Atrazine	1.30	U	1.30	5.10	ug/L
87-86-5	Pentachlorophenol	1.90	U	1.90	10.2	ug/L
85-01-8	Phenanthrene	0.91	U	0.91	5.10	ug/L
120-12-7	Anthracene	1.10	U	1.10	5.10	ug/L
86-74-8	Carbazole	1.20	U	1.20	5.10	ug/L
84-74-2	Di-n-butylphthalate	1.50	U	1.50	5.10	ug/L
206-44-0	Fluoranthene	1.30	U	1.30	5.10	ug/L
129-00-0	Pyrene	1.10	U	1.10	5.10	ug/L
85-68-7	Butylbenzylphthalate	2.10	U	2.10	5.10	ug/L
91-94-1	3,3-Dichlorobenzidine	1.30	U	1.30	10.2	ug/L
56-55-3	Benzo(a)anthracene	0.96	U	0.96	5.10	ug/L
218-01-9	Chrysene	0.88	U	0.88	5.10	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.90	U	1.90	5.10	ug/L
117-84-0	Di-n-octyl phthalate	2.60	U	2.60	10.2	ug/L
205-99-2	Benzo(b)fluoranthene	1.20	U	1.20	5.10	ug/L
207-08-9	Benzo(k)fluoranthene	1.20	U	1.20	5.10	ug/L
50-32-8	Benzo(a)pyrene	1.70	U	1.70	5.10	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	1.00	U	1.00	5.10	ug/L
53-70-3	Dibenzo(a,h)anthracene	1.20	U	1.20	5.10	ug/L

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-TCL BNA -20
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BG060646.D	1	03/14/24 10:06	03/14/24 19:57	PB159586

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
191-24-2	Benzo(g,h,i)perylene	1.20	U	1.20	5.10	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	1.10	U	1.10	5.10	ug/L
123-91-1	1,4-Dioxane	1.30	U	1.30	5.10	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.81	U	0.81	5.10	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.7		10 - 139	40%	SPK: 150
13127-88-3	Phenol-d6	35.4		10 - 134	24%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.5		49 - 133	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	89.7		52 - 132	90%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		32 - 145	84%	SPK: 150
1718-51-0	Terphenyl-d14	88.3		36 - 145	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	92400	8.325			
1146-65-2	Naphthalene-d8	426000	11.169			
15067-26-2	Acenaphthene-d10	303000	14.947			
1517-22-2	Phenanthrene-d10	646000	17.69			
1719-03-5	Chrysene-d12	578000	22.009			
1520-96-3	Perylene-d12	656000	25.564			
TENTATIVE IDENTIFIED COMPOUNDS						
	unknown16.374	2.20	J		16.4	ug/L

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-02	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			SVOC-NYCD	625.1		03/14/24	03/15/24	
P1747-03RE	**MW-01RE**	**Water**			**03/13/24**			**03/13/24**
			SVOC-NYCD	625.1		03/14/24	03/18/24	
P1747-04	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-05	**TWP-04**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747

Client: LiRo Engineers, Inc.

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								
				0.000				
			Total Svoc :			**0.00**		
			Total Concentration:			**0.00**		

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A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	Water
Analytical Method:	625.1	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-NYCD
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF137615.D	1	03/14/24 11:40	03/15/24 18:08	PB159613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
108-95-2	Phenol	0.96	U	0.96	5.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	41.9	*	60 - 140	42%	SPK: 100
13127-88-3	Phenol-d6	22.8	*	60 - 140	23%	SPK: 100
4165-60-0	Nitrobenzene-d5	87.3		60 - 140	87%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.6		60 - 140	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.9		60 - 140	99%	SPK: 100
1718-51-0	Terphenyl-d14	62.4		60 - 140	62%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	122000	6.722			
1146-65-2	Naphthalene-d8	481000	8.004			
15067-26-2	Acenaphthene-d10	272000	9.757			
1517-22-2	Phenanthrene-d10	476000	11.239			
1719-03-5	Chrysene-d12	380000	13.874			
1520-96-3	Perylene-d12	326000	15.298			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01RE	SDG No.:	P1747
Lab Sample ID:	P1747-03RE	Matrix:	Water
Analytical Method:	625.1	% Solid:	0
Sample Wt/Vol:	970 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOC-NYCD
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BM044656.D	1	03/14/24 11:40	03/18/24 13:12	PB159613

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
108-95-2	Phenol	0.96	U	0.96	5.20	ug/L
120-82-1	1,2,4-Trichlorobenzene	1.10	U	1.10	5.20	ug/L
91-20-3	Naphthalene	1.10	U	1.10	5.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	40.2	*	60 - 140	40%	SPK: 100
13127-88-3	Phenol-d6	22.4	*	60 - 140	22%	SPK: 100
4165-60-0	Nitrobenzene-d5	94.8		60 - 140	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.0		60 - 140	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	98.4		60 - 140	98%	SPK: 100
1718-51-0	Terphenyl-d14	84.2		60 - 140	84%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	203000	7.698			
1146-65-2	Naphthalene-d8	773000	10.475			
15067-26-2	Acenaphthene-d10	429000	14.339			
1517-22-2	Phenanthrene-d10	831000	17.098			
1719-03-5	Chrysene-d12	797000	21.297			
1520-96-3	Perylene-d12	944000	23.544			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-02	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			SVOC-NYCD	625.1		03/14/24	03/15/24	
P1747-03RE	**MW-01RE**	**Water**			**03/13/24**			**03/13/24**
			SVOC-NYCD	625.1		03/14/24	03/18/24	
P1747-04	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	
P1747-05	**TWP-04**	**Water**			**03/12/24**			**03/13/24**
			SVOC-TCL BNA -20	8270E		03/14/24	03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bı

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000

A B C D

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A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088618.D	1	03/14/24 10:51	03/14/24 19:02	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0063	U	0.0063	0.052	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.052	ug/L
319-86-8	delta-BHC	0.016	U	0.016	0.052	ug/L
58-89-9	gamma-BHC (Lindane)	0.0051	U	0.0051	0.052	ug/L
76-44-8	Heptachlor	0.0056	U	0.0056	0.052	ug/L
309-00-2	Aldrin	0.0045	U	0.0045	0.052	ug/L
1024-57-3	Heptachlor epoxide	0.0093	U	0.0093	0.052	ug/L
959-98-8	Endosulfan I	0.0052	U	0.0052	0.052	ug/L
60-57-1	Dieldrin	0.0048	U	0.0048	0.052	ug/L
72-55-9	4,4-DDE	0.0046	U	0.0046	0.052	ug/L
72-20-8	Endrin	0.0044	U	0.0044	0.052	ug/L
33213-65-9	Endosulfan II	0.0077	U	0.0077	0.052	ug/L
72-54-8	4,4-DDD	0.0095	U	0.0095	0.052	ug/L
1031-07-8	Endosulfan Sulfate	0.0036	U	0.0036	0.052	ug/L
50-29-3	4,4-DDT	0.0045	U	0.0045	0.052	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.052	ug/L
53494-70-5	Endrin ketone	0.010	U	0.010	0.052	ug/L
7421-93-4	Endrin aldehyde	0.010	U	0.010	0.052	ug/L
5103-71-9	alpha-Chlordane	0.0062	U	0.0062	0.052	ug/L
5103-74-2	gamma-Chlordane	0.0062	U	0.0062	0.052	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	16.4		27 - 142	82%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.2		35 - 148	101%	SPK: 20

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088618.D	1	03/14/24 10:51	03/14/24 19:02	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088619.D	1	03/14/24 10:51	03/14/24 19:16	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0063	U	0.0063	0.052	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.052	ug/L
319-86-8	delta-BHC	0.016	U	0.016	0.052	ug/L
58-89-9	gamma-BHC (Lindane)	0.0051	U	0.0051	0.052	ug/L
76-44-8	Heptachlor	0.0056	U	0.0056	0.052	ug/L
309-00-2	Aldrin	0.0045	U	0.0045	0.052	ug/L
1024-57-3	Heptachlor epoxide	0.0093	U	0.0093	0.052	ug/L
959-98-8	Endosulfan I	0.0052	U	0.0052	0.052	ug/L
60-57-1	Dieldrin	0.0048	U	0.0048	0.052	ug/L
72-55-9	4,4-DDE	0.0046	U	0.0046	0.052	ug/L
72-20-8	Endrin	0.0044	U	0.0044	0.052	ug/L
33213-65-9	Endosulfan II	0.0077	U	0.0077	0.052	ug/L
72-54-8	4,4-DDD	0.0095	U	0.0095	0.052	ug/L
1031-07-8	Endosulfan Sulfate	0.0036	U	0.0036	0.052	ug/L
50-29-3	4,4-DDT	0.0045	U	0.0045	0.052	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.052	ug/L
53494-70-5	Endrin ketone	0.010	U	0.010	0.052	ug/L
7421-93-4	Endrin aldehyde	0.010	U	0.010	0.052	ug/L
5103-71-9	alpha-Chlordane	0.0062	U	0.0062	0.052	ug/L
5103-74-2	gamma-Chlordane	0.0062	U	0.0062	0.052	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	12.2		27 - 142	61%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		35 - 148	97%	SPK: 20

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088619.D	1	03/14/24 10:51	03/14/24 19:16	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088620.D	1	03/14/24 10:51	03/14/24 19:30	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0062	U	0.0062	0.051	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.051	ug/L
319-86-8	delta-BHC	0.015	U	0.015	0.051	ug/L
58-89-9	gamma-BHC (Lindane)	0.0050	U	0.0050	0.051	ug/L
76-44-8	Heptachlor	0.0055	U	0.0055	0.051	ug/L
309-00-2	Aldrin	0.0045	U	0.0045	0.051	ug/L
1024-57-3	Heptachlor epoxide	0.0092	U	0.0092	0.051	ug/L
959-98-8	Endosulfan I	0.0051	U	0.0051	0.051	ug/L
60-57-1	Dieldrin	0.0048	U	0.0048	0.051	ug/L
72-55-9	4,4-DDE	0.0046	U	0.0046	0.051	ug/L
72-20-8	Endrin	0.0044	U	0.0044	0.051	ug/L
33213-65-9	Endosulfan II	0.0077	U	0.0077	0.051	ug/L
72-54-8	4,4-DDD	0.0094	U	0.0094	0.051	ug/L
1031-07-8	Endosulfan Sulfate	0.0036	U	0.0036	0.051	ug/L
50-29-3	4,4-DDT	0.0045	U	0.0045	0.051	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.051	ug/L
53494-70-5	Endrin ketone	0.0099	U	0.0099	0.051	ug/L
7421-93-4	Endrin aldehyde	0.010	U	0.010	0.051	ug/L
5103-71-9	alpha-Chlordane	0.0061	U	0.0061	0.051	ug/L
5103-74-2	gamma-Chlordane	0.0061	U	0.0061	0.051	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	15.6		27 - 142	78%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.2		35 - 148	111%	SPK: 20

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088620.D	1	03/14/24 10:51	03/14/24 19:30	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088621.D	1	03/14/24 10:51	03/14/24 19:44	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
319-84-6	alpha-BHC	0.0063	U	0.0063	0.052	ug/L
319-85-7	beta-BHC	0.014	U	0.014	0.052	ug/L
319-86-8	delta-BHC	0.016	U	0.016	0.052	ug/L
58-89-9	gamma-BHC (Lindane)	0.0051	U	0.0051	0.052	ug/L
76-44-8	Heptachlor	0.0056	U	0.0056	0.052	ug/L
309-00-2	Aldrin	0.0045	U	0.0045	0.052	ug/L
1024-57-3	Heptachlor epoxide	0.0093	U	0.0093	0.052	ug/L
959-98-8	Endosulfan I	0.0052	U	0.0052	0.052	ug/L
60-57-1	Dieldrin	0.0048	U	0.0048	0.052	ug/L
72-55-9	4,4-DDE	0.0046	U	0.0046	0.052	ug/L
72-20-8	Endrin	0.0044	U	0.0044	0.052	ug/L
33213-65-9	Endosulfan II	0.0077	U	0.0077	0.052	ug/L
72-54-8	4,4-DDD	0.0095	U	0.0095	0.052	ug/L
1031-07-8	Endosulfan Sulfate	0.0036	U	0.0036	0.052	ug/L
50-29-3	4,4-DDT	0.0045	U	0.0045	0.052	ug/L
72-43-5	Methoxychlor	0.011	U	0.011	0.052	ug/L
53494-70-5	Endrin ketone	0.010	U	0.010	0.052	ug/L
7421-93-4	Endrin aldehyde	0.010	U	0.010	0.052	ug/L
5103-71-9	alpha-Chlordane	0.0062	U	0.0062	0.052	ug/L
5103-74-2	gamma-Chlordane	0.0062	U	0.0062	0.052	ug/L
8001-35-2	Toxaphene	0.15	U	0.15	1.00	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.8		27 - 142	94%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.0		35 - 148	110%	SPK: 20

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	Pesticide-TCL
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL088621.D	1	03/14/24 10:51	03/14/24 19:44	PB159588

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

Comments:

U = Not Detected
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-02	**MW-01-DUP**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-03	**MW-01**	**WATER**			**03/13/24**			**03/13/24**
			PCB	608.3		03/14/24	03/15/24	
P1747-04	**MW-02**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-05	**TWP-04**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bı

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID :								

Total Concentration: 0.000

A B C D

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A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102515.D	1	03/14/24 10:51	03/14/24 20:04	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.2		21 - 155	96%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		10 - 173	99%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	970 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102516.D	1	03/14/24 10:51	03/14/24 20:21	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.52	ug/L
11104-28-2	Aroclor-1221	0.24	U	0.24	0.52	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.52	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.52	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.52	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.52	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.52	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.52	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.52	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.6		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.5		10 - 173	98%	SPK: 20

Comments:

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J = Estimated Value
B = Analyte Found in Associated Method Blank
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S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	WATER
Analytical Method:	608.3	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102530.D	1	03/14/24 10:05	03/15/24 01:03	PB159600

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.015	U	0.015	0.051	ug/L
11104-28-2	Aroclor-1221	0.024	U	0.024	0.051	ug/L
11141-16-5	Aroclor-1232	0.038	U	0.038	0.051	ug/L
53469-21-9	Aroclor-1242	0.016	U	0.016	0.051	ug/L
12672-29-6	Aroclor-1248	0.012	U	0.012	0.051	ug/L
11097-69-1	Aroclor-1254	0.011	U	0.011	0.051	ug/L
11096-82-5	Aroclor-1260	0.015	U	0.015	0.051	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	10.8	*	60 - 140	54%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.1		60 - 140	111%	SPK: 20

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
P = Indicates >25% difference for detected concentrations between the two GC columns
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
S = Indicates estimated value where valid five-point calibration was not performed prior to analyte detection in sample.
() = Laboratory InHouse Limit

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	990 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102517.D	1	03/14/24 10:51	03/14/24 20:38	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.37	U	0.37	0.51	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		21 - 155	98%	SPK: 20
2051-24-3	Decachlorobiphenyl	20.5		10 - 173	103%	SPK: 20

Comments:

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	980 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO102518.D	1	03/14/24 10:51	03/14/24 20:55	PB159587

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.51	ug/L
11104-28-2	Aroclor-1221	0.23	U	0.23	0.51	ug/L
11141-16-5	Aroclor-1232	0.38	U	0.38	0.51	ug/L
53469-21-9	Aroclor-1242	0.16	U	0.16	0.51	ug/L
12672-29-6	Aroclor-1248	0.12	U	0.12	0.51	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.51	ug/L
37324-23-5	Aroclor-1262	0.14	U	0.14	0.51	ug/L
11100-14-4	Aroclor-1268	0.12	U	0.12	0.51	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.51	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.7		21 - 155	104%	SPK: 20
2051-24-3	Decachlorobiphenyl	22.7		10 - 173	113%	SPK: 20

Comments:

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-02	**MW-01-DUP**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-03	**MW-01**	**WATER**			**03/13/24**			**03/13/24**
			PCB	608.3		03/14/24	03/15/24	
P1747-04	**MW-02**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	
P1747-05	**TWP-04**	**WATER**			**03/12/24**			**03/13/24**
			PCB	8082A		03/14/24	03/14/24	
			Pesticide-TCL	8081B		03/14/24	03/14/24	

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : MW-01								
P1747-01	MW-01	Water	Aluminum	123		28.3	50.0	ug/L
P1747-01	MW-01	Water	Barium	15.8	J	6.28	50.0	ug/L
P1747-01	MW-01	Water	Calcium	21300		33.0	1000	ug/L
P1747-01	MW-01	Water	Chromium	0.73	J	0.66	5.00	ug/L
P1747-01	MW-01	Water	Iron	337		18.5	50.0	ug/L
P1747-01	MW-01	Water	Magnesium	3080		39.4	1000	ug/L
P1747-01	MW-01	Water	Manganese	113		1.46	10.0	ug/L
P1747-01	MW-01	Water	Nickel	1.14	J	0.85	20.0	ug/L
P1747-01	MW-01	Water	Potassium	1840		685	1000	ug/L
P1747-01	MW-01	Water	Sodium	18100		237	1000	ug/L
P1747-01	MW-01	Water	Zinc	64.2		1.75	20.0	ug/L
Client ID : MW-01-DUP								
P1747-02	MW-01-DUP	Water	Aluminum	377		28.3	50.0	ug/L
P1747-02	MW-01-DUP	Water	Barium	19.3	J	6.28	50.0	ug/L
P1747-02	MW-01-DUP	Water	Calcium	23000		33.0	1000	ug/L
P1747-02	MW-01-DUP	Water	Chromium	1.47	J	0.66	5.00	ug/L
P1747-02	MW-01-DUP	Water	Copper	7.27	J	7.07	10.0	ug/L
P1747-02	MW-01-DUP	Water	Iron	866		18.5	50.0	ug/L
P1747-02	MW-01-DUP	Water	Magnesium	3400		39.4	1000	ug/L
P1747-02	MW-01-DUP	Water	Manganese	126		1.46	10.0	ug/L
P1747-02	MW-01-DUP	Water	Nickel	1.50	J	0.85	20.0	ug/L
P1747-02	MW-01-DUP	Water	Potassium	1940		685	1000	ug/L
P1747-02	MW-01-DUP	Water	Silver	0.60	J	0.58	5.00	ug/L
P1747-02	MW-01-DUP	Water	Sodium	18300		237	1000	ug/L
P1747-02	MW-01-DUP	Water	Zinc	67.9		1.75	20.0	ug/L
Client ID : MW-01								
P1747-03	MW-01	Water	Copper	2.30	J	1.52	10.0	ug/L
P1747-03	MW-01	Water	Mercury	0.77		0.022	0.20	ug/L
P1747-03	MW-01	Water	Nickel	17.6	J	1.28	20.0	ug/L
P1747-03	MW-01	Water	Zinc	25.7		1.44	20.0	ug/L
Client ID : MW-02								
P1747-04	MW-02	Water	Aluminum	184		28.3	50.0	ug/L
P1747-04	MW-02	Water	Barium	93.1		6.28	50.0	ug/L
P1747-04	MW-02	Water	Calcium	82300		33.0	1000	ug/L
P1747-04	MW-02	Water	Chromium	2.09	J	0.66	5.00	ug/L
P1747-04	MW-02	Water	Iron	112		18.5	50.0	ug/L
P1747-04	MW-02	Water	Magnesium	12800		39.4	1000	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1747-04	MW-02	Water	Manganese	4.47	J	1.46	10.0	ug/L
P1747-04	MW-02	Water	Nickel	1.08	J	0.85	20.0	ug/L
P1747-04	MW-02	Water	Potassium	5590		685	1000	ug/L
P1747-04	MW-02	Water	Selenium	7.04	J	5.88	10.0	ug/L
P1747-04	MW-02	Water	Sodium	22600		237	1000	ug/L
P1747-04	MW-02	Water	Zinc	6.28	J	1.75	20.0	ug/L
Client ID : TWP-04								
P1747-05	TWP-04	Water	Aluminum	1860		28.3	50.0	ug/L
P1747-05	TWP-04	Water	Barium	300		6.28	50.0	ug/L
P1747-05	TWP-04	Water	Beryllium	0.37	J	0.13	3.00	ug/L
P1747-05	TWP-04	Water	Calcium	105000		33.0	1000	ug/L
P1747-05	TWP-04	Water	Chromium	5.81		0.66	5.00	ug/L
P1747-05	TWP-04	Water	Cobalt	1.36	J	0.50	15.0	ug/L
P1747-05	TWP-04	Water	Iron	18000		18.5	50.0	ug/L
P1747-05	TWP-04	Water	Magnesium	30200		39.4	1000	ug/L
P1747-05	TWP-04	Water	Manganese	895		1.46	10.0	ug/L
P1747-05	TWP-04	Water	Nickel	3.13	J	0.85	20.0	ug/L
P1747-05	TWP-04	Water	Potassium	6920		685	1000	ug/L
P1747-05	TWP-04	Water	Silver	1.76	J	0.58	5.00	ug/L
P1747-05	TWP-04	Water	Sodium	61300		237	1000	ug/L
P1747-05	TWP-04	Water	Vanadium	5.60	J	3.06	20.0	ug/L
P1747-05	TWP-04	Water	Zinc	16.4	J	1.75	20.0	ug/L
Client ID : MW-01								
P1747-07	MW-01	Water	Aluminum	157		28.3	50.0	ug/L
P1747-07	MW-01	Water	Barium	16.2	J	6.28	50.0	ug/L
P1747-07	MW-01	Water	Calcium	21600		33.0	1000	ug/L
P1747-07	MW-01	Water	Chromium	7.73		0.66	5.00	ug/L
P1747-07	MW-01	Water	Iron	415		18.5	50.0	ug/L
P1747-07	MW-01	Water	Magnesium	3210		39.4	1000	ug/L
P1747-07	MW-01	Water	Manganese	116		1.46	10.0	ug/L
P1747-07	MW-01	Water	Nickel	4.36	J	0.85	20.0	ug/L
P1747-07	MW-01	Water	Potassium	1780		685	1000	ug/L
P1747-07	MW-01	Water	Sodium	18000		237	1000	ug/L
P1747-07	MW-01	Water	Zinc	64.5		1.75	20.0	ug/L
Client ID : MW-01-DUP								
P1747-08	MW-01-DUP	Water	Aluminum	369		28.3	50.0	ug/L
P1747-08	MW-01-DUP	Water	Barium	19.4	J	6.28	50.0	ug/L
P1747-08	MW-01-DUP	Water	Calcium	21600		33.0	1000	ug/L
P1747-08	MW-01-DUP	Water	Chromium	3.45	J	0.66	5.00	ug/L
P1747-08	MW-01-DUP	Water	Iron	927		18.5	50.0	ug/L

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Hit Summary Sheet
SW-846

SDG No.: P1747 **Order ID:** P1747

Client: LiRo Engineers, Inc. **Project ID:** Walter Gladwin Recreation Center, Bronx,

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P1747-08	MW-01-DUP	Water	Magnesium	3250		39.4	1000	ug/L
P1747-08	MW-01-DUP	Water	Manganese	121		1.46	10.0	ug/L
P1747-08	MW-01-DUP	Water	Nickel	2.23	J	0.85	20.0	ug/L
P1747-08	MW-01-DUP	Water	Potassium	1870		685	1000	ug/L
P1747-08	MW-01-DUP	Water	Silver	0.59	J	0.58	5.00	ug/L
P1747-08	MW-01-DUP	Water	Sodium	18200		237	1000	ug/L
P1747-08	MW-01-DUP	Water	Zinc	69.8		1.75	20.0	ug/L
Client ID :	**MW-02**							
P1747-09	MW-02	Water	Aluminum	489		28.3	50.0	ug/L
P1747-09	MW-02	Water	Barium	88.9		6.28	50.0	ug/L
P1747-09	MW-02	Water	Calcium	79300		33.0	1000	ug/L
P1747-09	MW-02	Water	Chromium	3.13	J	0.66	5.00	ug/L
P1747-09	MW-02	Water	Iron	345		18.5	50.0	ug/L
P1747-09	MW-02	Water	Magnesium	12500		39.4	1000	ug/L
P1747-09	MW-02	Water	Manganese	5.63	J	1.46	10.0	ug/L
P1747-09	MW-02	Water	Nickel	1.71	J	0.85	20.0	ug/L
P1747-09	MW-02	Water	Potassium	5300		685	1000	ug/L
P1747-09	MW-02	Water	Selenium	6.50	J	5.88	10.0	ug/L
P1747-09	MW-02	Water	Silver	1.49	J	0.58	5.00	ug/L
P1747-09	MW-02	Water	Sodium	21500		237	1000	ug/L
P1747-09	MW-02	Water	Zinc	4.90	J	1.75	20.0	ug/L
Client ID :	**TWP-04**							
P1747-10	TWP-04	Water	Aluminum	1820		28.3	50.0	ug/L
P1747-10	TWP-04	Water	Barium	284		6.28	50.0	ug/L
P1747-10	TWP-04	Water	Beryllium	0.40	J	0.13	3.00	ug/L
P1747-10	TWP-04	Water	Calcium	102000		33.0	1000	ug/L
P1747-10	TWP-04	Water	Chromium	8.29		0.66	5.00	ug/L
P1747-10	TWP-04	Water	Cobalt	1.40	J	0.50	15.0	ug/L
P1747-10	TWP-04	Water	Iron	17500		18.5	50.0	ug/L
P1747-10	TWP-04	Water	Magnesium	29300		39.4	1000	ug/L
P1747-10	TWP-04	Water	Manganese	861		1.46	10.0	ug/L
P1747-10	TWP-04	Water	Nickel	3.32	J	0.85	20.0	ug/L
P1747-10	TWP-04	Water	Potassium	6560		685	1000	ug/L
P1747-10	TWP-04	Water	Silver	1.61	J	0.58	5.00	ug/L
P1747-10	TWP-04	Water	Sodium	58300		237	1000	ug/L
P1747-10	TWP-04	Water	Vanadium	5.20	J	3.06	20.0	ug/L
P1747-10	TWP-04	Water	Zinc	17.6	J	1.75	20.0	ug/L

CHEMTECH

A
B
C
D

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-01	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	123		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-39-3	Barium	15.8	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-70-2	Calcium	21300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-47-3	Chromium	0.73	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-89-6	Iron	337		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-95-4	Magnesium	3080		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-96-5	Manganese	113		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:46	SW7470A	
7440-02-0	Nickel	1.14	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-09-7	Potassium	1840		1	685	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-23-5	Sodium	18100		1	237	1000	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010
7440-66-6	Zinc	64.2		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 21:51	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-02	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	377		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-39-3	Barium	19.3	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-70-2	Calcium	23000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-47-3	Chromium	1.47	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-50-8	Copper	7.27	J	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-89-6	Iron	866		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-95-4	Magnesium	3400		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-96-5	Manganese	126		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:48	SW7470A	
7440-02-0	Nickel	1.50	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-09-7	Potassium	1940		1	685	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-22-4	Silver	0.60	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-23-5	Sodium	18300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010
7440-66-6	Zinc	67.9		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 21:55	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-43-9	Cadmium	0.21	U	1	0.21	3.00	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7440-50-8	Copper	2.30	J	1	1.52	10.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7439-92-1	Lead	1.57	U	1	1.57	6.00	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7439-97-6	Mercury	0.77		1	0.022	0.20	ug/L	03/20/24 12:11	03/20/24 15:19	E245.1	
7440-02-0	Nickel	17.6	J	1	1.28	20.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	
7440-66-6	Zinc	25.7		1	1.44	20.0	ug/L	03/14/24 11:07	03/21/24 13:43	EPA 200.7	

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	NYCDischarge				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
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CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-04	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	184		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-39-3	Barium	93.1		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-70-2	Calcium	82300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-47-3	Chromium	2.09	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-89-6	Iron	112		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-95-4	Magnesium	12800		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-96-5	Manganese	4.47	J	1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:51	SW7470A	
7440-02-0	Nickel	1.08	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-09-7	Potassium	5590		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7782-49-2	Selenium	7.04	J	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-23-5	Sodium	22600		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010
7440-66-6	Zinc	6.28	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:00	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-05	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1860		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-39-3	Barium	300		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-41-7	Beryllium	0.37	J	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-70-2	Calcium	105000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-47-3	Chromium	5.81		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-48-4	Cobalt	1.36	J	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-89-6	Iron	18000		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-95-4	Magnesium	30200		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-96-5	Manganese	895		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:53	SW7470A	
7440-02-0	Nickel	3.13	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-09-7	Potassium	6920		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-22-4	Silver	1.76	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-23-5	Sodium	61300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-62-2	Vanadium	5.60	J	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010
7440-66-6	Zinc	16.4	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:04	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
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J = Estimated Value
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N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-07	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	157		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-39-3	Barium	16.2	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-70-2	Calcium	21600		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-47-3	Chromium	7.73		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-89-6	Iron	415		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-95-4	Magnesium	3210		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-96-5	Manganese	116		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:55	SW7470A	
7440-02-0	Nickel	4.36	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-09-7	Potassium	1780		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-22-4	Silver	0.58	U	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-23-5	Sodium	18000		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010
7440-66-6	Zinc	64.5		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:36	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01-DUP	SDG No.:	P1747
Lab Sample ID:	P1747-08	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	369		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-39-3	Barium	19.4	J	1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-70-2	Calcium	21600		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-47-3	Chromium	3.45	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-89-6	Iron	927		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-95-4	Magnesium	3250		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-96-5	Manganese	121		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 13:58	SW7470A	
7440-02-0	Nickel	2.23	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-09-7	Potassium	1870		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-22-4	Silver	0.59	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-23-5	Sodium	18200		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010
7440-66-6	Zinc	69.8		1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:40	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	

Comments: DISSOLVED METALS-TAL

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-02	SDG No.:	P1747
Lab Sample ID:	P1747-09	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	489		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-39-3	Barium	88.9		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-41-7	Beryllium	0.13	U	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-70-2	Calcium	79300		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-47-3	Chromium	3.13	J	1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-48-4	Cobalt	0.50	U	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-89-6	Iron	345		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-95-4	Magnesium	12500		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-96-5	Manganese	5.63	J	1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 14:00	SW7470A	
7440-02-0	Nickel	1.71	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-09-7	Potassium	5300		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7782-49-2	Selenium	6.50	J	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-22-4	Silver	1.49	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-23-5	Sodium	21500		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-62-2	Vanadium	3.06	U	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010
7440-66-6	Zinc	4.90	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:44	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
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E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

CHEMTECH 284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/12/24
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	TWP-04	SDG No.:	P1747
Lab Sample ID:	P1747-10	Matrix:	Water
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	1820		1	28.3	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-36-0	Antimony	2.06	U	1	2.06	25.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-38-2	Arsenic	3.48	U	1	3.48	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-39-3	Barium	284		1	6.28	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-41-7	Beryllium	0.40	J	1	0.13	3.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-43-9	Cadmium	0.094	U	1	0.094	3.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-70-2	Calcium	102000		1	33.0	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-47-3	Chromium	8.29		1	0.66	5.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-48-4	Cobalt	1.40	J	1	0.50	15.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-50-8	Copper	7.07	U	1	7.07	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-89-6	Iron	17500		1	18.5	50.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-92-1	Lead	3.51	U	1	3.51	6.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-95-4	Magnesium	29300		1	39.4	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-96-5	Manganese	861		1	1.46	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7439-97-6	Mercury	0.081	U	1	0.081	0.20	ug/L	03/15/24 13:50	03/19/24 14:02	SW7470A	
7440-02-0	Nickel	3.32	J	1	0.85	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-09-7	Potassium	6560		1	685	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7782-49-2	Selenium	5.88	U	1	5.88	10.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-22-4	Silver	1.61	J	1	0.58	5.00	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-23-5	Sodium	58300		1	237	1000	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-28-0	Thallium	2.32	U	1	2.32	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-62-2	Vanadium	5.20	J	1	3.06	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010
7440-66-6	Zinc	17.6	J	1	1.75	20.0	ug/L	03/14/24 11:07	03/18/24 22:49	SW6010	SW3010

Color Before:	Colorless	Clarity Before:	Clear	Texture:	
Color After:	Colorless	Clarity After:	Clear	Artifacts:	
Comments:	DISSOLVED METALS-TAL				

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements

J = Estimated Value
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CHEMTECH

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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-01	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-02	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-03	**MW-01**	**Water**			**03/13/24**			**03/13/24**
			Mercury	245.1		03/20/24	03/20/24	
			METALS-NYCD	200.7		03/14/24	03/21/24	
P1747-04	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-05	**TWP-04**	**Water**			**03/12/24**			**03/13/24**
			Mercury	7470A		03/15/24	03/19/24	
			Metals ICP-TAL	6010D		03/14/24	03/18/24	
P1747-07	**MW-01**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-08	**MW-01-DUP**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-09	**MW-02**	**Water**			**03/12/24**			**03/13/24**
			Dissolved ICP-TAL Metals	6010D		03/14/24	03/18/24	
			Dissolved Mercury	7470A		03/15/24	03/19/24	
P1747-10	**TWP-04**	**Water**			**03/12/24**			**03/13/24**

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Dissolved ICP-TAL Metals	6010D	03/14/24	03/18/24
Dissolved Mercury	7470A	03/15/24	03/19/24

CHEMTECH

A
B
C

SAMPLE DATA

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Report of Analysis

Client:	LiRo Engineers, Inc.	Date Collected:	03/13/24 10:00
Project:	Walter Gladwin Recreation Center, Bronx, NY	Date Received:	03/13/24
Client Sample ID:	MW-01	SDG No.:	P1747
Lab Sample ID:	P1747-03	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
CBOD5	19.0		1	0.17	2.00	mg/L		03/14/24 10:30	SM 5210 B-16
Chloride	61.2		1	0.54	5.00	mg/L		03/14/24 15:22	SM 4500-Cl C-11
Flash Point	>212		1	0	0	o F		03/14/24 13:15	1010B
Dissolved Hexavalent Chromium	0.0020	U	1	0.0020	0.010	mg/L		03/14/24 11:14	SM 3500-Cr B-11
Non-Polar Material	0.53	U	1	0.53	5.00	mg/L		03/15/24 15:00	1664A
Phenolics	0.012	U	1	0.012	0.050	mg/L	03/15/24 11:30	03/15/24 14:29	420.1
TKN	1.00		1	0.13	0.50	mg/L	03/18/24 12:40	03/19/24 11:26	SM4500-N Org C-11 plus NH3 B plus G-11
Nitrogen	1.04		1	0.15	0.60	mg/L		03/18/24 00:00	Cal
TS	576		1	1.00	5.00	mg/L		03/14/24 11:00	SM 2540 B-15
TSS	57.2		1	1.00	4.00	mg/L		03/18/24 09:30	SM 2540 D-15

Comments: Other method reference for flash point : Pensky-Martens Closed Cup Flash Point ASTM D 93 - IP 34

U = Not Detected
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LOD = Limit of Detection
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Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time
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LAB CHRONICLE

OrderID:	P1747	**OrderDate:**	3/13/2024 12:28:00 PM
Client:	LiRo Engineers, Inc.	**Project:**	Walter Gladwin Recreation Center, Bronx, NY
Contact:	Steve Frank	**Location:**	I21,I31,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P1747-03	**MW-01**	**WATER**			**03/13/24 10:00**			**03/13/24**
			CBOD5	SM5210 B			03/14/24 10:30	
			Chloride	SM4500-CL C			03/14/24 15:22	
			Flash Point	1010B			03/14/24 13:15	
			Hexavalent Chromium	SM3500-Cr B			03/14/24 11:14	
			Non-Polar Material	1664A			03/15/24 15:00	
			Phenolics	420.1		03/15/24	03/15/24 14:29	
			TKN	SM4500-N Org C-11 plus NH3 B plus G-11		03/18/24	03/19/24 11:26	
			Total Nitrogen	Cal			03/18/24 00:00	
			TS	SM2540 B			03/14/24 11:00	
			TSS	SM2540 D			03/18/24 09:30	