284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

DATA PACKAGE

VOLATILE ORGANICS
GENERAL CHEMISTRY
METALS
GC SEMI-VOLATILES
SEMI-VOLATILE ORGANICS

PROJECT NAME : TANNER G. DUCKREY PUBLIC SCHOOL

KLEINFELDER

180 Sheree Boulevard, Suite 3800

Exton, PA - 19341

Phone No: 610-594-1444

ORDER ID : P5277

ATTENTION : Mark Warchol

Laboratory Certification ID # 20012

Table Of Contents for P5277

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Cover Page

Order ID : P5277

Project ID : Tanner G. Duckrey Public School

Client : Kleinfelder

Lab Sample Number	Client Sample Number
P5277-01	COMP-1A
P5277-02	COMP-2A
P5277-03	COMP-3A

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 12/23/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: VOCMS Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/13/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for VOCMS Group1.

C. Analytical Techniques:
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group1 was based on method 8260D.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Trip Blank was not provided with this set of samples.
The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount

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for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature_____

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: SVOCMS Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/13/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for SVOCMS Group1.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SVOCMS Group1 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .

The Blank Spike for {PB165648BS} with File ID: BF140898.D met requirements for all samples except for Indeno(1,2,3-cd)pyrene[112%] failing biased high, therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

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The soil samples results are based on a dry weight basis.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: PESTICIDE Group1

A. Number of Samples and Date of Receipt:
15 Solid samples were received on 12/13/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for PESTICIDE Group1.

C. Analytical Techniques:
The analysis was performed on instrument ECD_L. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0. 5 um df,: Catalog # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 um df, Catalog #: 7HMG017- 11.The analysis of PESTICIDE Group1s was based on method 8081B and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

COMP-3A sample was reported with J flag on form 1 for com#16 based on reporting criteria of high concentration from both column. Now for other column compound detection is below MDL therefore it is not detecting on form 10.

The soil samples results are based on a dry weight basis.

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F. Manual Integration Comments:
Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: PCB Group1

A. Number of Samples and Date of Receipt:
15 Solid samples were received on 12/13/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for PCB Group1.

C. Analytical Techniques:
The analyses were performed on instrument GCECD_O. The front column is ZB-MR1 which is 30 meters, 0.32 mm ID, 0.5 um df, Catalogue # 7HM-G016-17. The rear column is ZB-MR2 which is 30 meters, 0.32 mm ID, 0.25 µm; Catalogue # 7HM-G017-11.The analysis of PCB Group1s was based on method 8082A and extraction was done based on method 3541.

D. QA/ QC Samples:

The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Retention Times were acceptable for all samples.
The MS recoveries met the requirements for all compounds .
The MSD recoveries met the acceptable requirements .
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .
The Continuous Calibration met the requirements .

E. Additional Comments:

The soil samples results are based on a dry weight basis.

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F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: Metals ICP-Group1,Mercury

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/13/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for Metals ICP-Group1,Mercury.

C. Analytical Techniques:
The analysis of Metals ICP-Group1 was based on method 6010D, digestion based on method 3050 (soils). The analysis and digestion of Mercury was based on method 7471B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike (ROCKAWAY-PARKMS) analysis met criteria for all samples except for Antimony and Molybdenum due to Chemical Interference during digestion process.
The Matrix Spike Duplicate (ROCKAWAY-PARKMSD) analysis met criteria for all samples except for Antimony, Boron and Molybdenum due to Chemical Interference during digestion process.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.
The Serial Dilution met the acceptable requirements.

E. Additional Comments:

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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CASE NARRATIVE

Kleinfelder
Project Name: Tanner G. Duckrey Public School
Project # N/A
Chemtech Project # P5277
Test Name: Hexavalent Chromium,Ammonia,Trivalent Chromium,Anions Group1

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 12/13/2024.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Ammonia, Anions Group1, Hexavalent Chromium, Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group1, Trivalent Chromium and VOCMS Group1. This data package contains results for Hexavalent Chromium,Ammonia,Trivalent Chromium,Anions Group1.

C. Analytical Techniques:
The analysis of Trivalent Chromium was based on method 6010D, The analysis of Hexavalent Chromium was based on method 7196A, The analysis of Anions Group1 was based on method 9056A and The analysis of Ammonia was based on method SM4500-NH3.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all samples.
The Duplicate analysis met criteria for all samples.
The Matrix Spike analysis met criteria for all samples.
The Matrix Spike Duplicate analysis met criteria for all samples.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:

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Signature_____

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DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following " Results Qualifiers" are used:

Value	If the result is a value greater than or equal to the detection limit, report the value
U	Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. "10 U". This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.
ND	Indicates the analyte was analyzed for, but not detected
J	Indicates an estimated value**.** This flag is used: (1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.) (2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as "12 B".
E	Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a "P".
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: P5277

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: SOHIL JODHANI **Date:** 12/23/2024

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/19/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/18/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			VOCMS Group1	8260D			12/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277

Client: Kleinfelder

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units

Client ID:

0

Total Voc :

Total Concentration:

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	88.5
Sample Wt/Vol:	4.74 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020660.D	1		12/19/24 17:09	VY121924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.73	U	0.73	6.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.93	U	0.93	6.00	ug/Kg
71-43-2	Benzene	0.86	U	0.86	6.00	ug/Kg
79-01-6	Trichloroethene	0.89	U	0.89	6.00	ug/Kg
108-88-3	Toluene	0.80	U	0.80	6.00	ug/Kg
100-41-4	Ethyl Benzene	0.74	U	0.74	6.00	ug/Kg
1330-20-7	Total Xylenes	2.43	U	2.43	17.9	ug/Kg
98-82-8	Isopropylbenzene	0.80	U	0.80	6.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.3		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	43.5		54 - 147	87%	SPK: 50
2037-26-5	Toluene-d8	49.5		58 - 134	99%	SPK: 50
460-00-4	4-Bromofluorobenzene	44.6		29 - 146	89%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	109000	7.713			
540-36-3	1,4-Difluorobenzene	185000	8.616			
3114-55-4	Chlorobenzene-d5	172000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	81200	13.347			

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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	78.9
Sample Wt/Vol:	3.63 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020629.D	1		12/18/24 12:33	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	1.10	U	1.10	8.70	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.40	U	1.40	8.70	ug/Kg
71-43-2	Benzene	1.30	U	1.30	8.70	ug/Kg
79-01-6	Trichloroethene	1.30	U	1.30	8.70	ug/Kg
108-88-3	Toluene	1.20	U	1.20	8.70	ug/Kg
100-41-4	Ethyl Benzene	1.10	U	1.10	8.70	ug/Kg
1330-20-7	Total Xylenes	3.60	U	3.60	26.2	ug/Kg
98-82-8	Isopropylbenzene	1.20	U	1.20	8.70	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.8		50 - 163	108%	SPK: 50
1868-53-7	Dibromofluoromethane	39.5		54 - 147	79%	SPK: 50
2037-26-5	Toluene-d8	48.4		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	36.9		29 - 146	74%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	323000	8.616			
3114-55-4	Chlorobenzene-d5	272000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	106000	13.347			

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	89.9
Sample Wt/Vol:	3.92 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020630.D	1		12/18/24 12:57	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.87	U	0.87	7.10	ug/Kg
71-55-6	1,1,1-Trichloroethane	1.10	U	1.10	7.10	ug/Kg
71-43-2	Benzene	1.00	U	1.00	7.10	ug/Kg
79-01-6	Trichloroethene	1.10	U	1.10	7.10	ug/Kg
108-88-3	Toluene	0.95	U	0.95	7.10	ug/Kg
100-41-4	Ethyl Benzene	0.88	U	0.88	7.10	ug/Kg
1330-20-7	Total Xylenes	2.89	U	2.89	21.3	ug/Kg
98-82-8	Isopropylbenzene	0.95	U	0.95	7.10	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	53.6		50 - 163	107%	SPK: 50
1868-53-7	Dibromofluoromethane	45.0		54 - 147	90%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.5		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	165000	7.707			
540-36-3	1,4-Difluorobenzene	286000	8.616			
3114-55-4	Chlorobenzene-d5	240000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	94500	13.346			

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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Surrogate Summary

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D

Lab Sample ID	Client ID	Parameter	Spike	Result	RecoveryQual	Limits Low	Limits High
P5277-01	COMP-1A	1,2-Dichloroethane-d4	50	48.3	97	50	163
		Dibromofluoromethane	50	43.5	87	54	147
		Toluene-d8	50	49.5	99	58	134
		4-Bromofluorobenzene	50	44.6	89	29	146
P5277-02	COMP-2A	1,2-Dichloroethane-d4	50	53.8	108	50	163
		Dibromofluoromethane	50	39.5	79	54	147
		Toluene-d8	50	48.4	97	58	134
		4-Bromofluorobenzene	50	36.9	74	29	146
P5277-03	COMP-3A	1,2-Dichloroethane-d4	50	53.6	107	50	163
		Dibromofluoromethane	50	45.0	90	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	37.5	75	29	146
VY1218SBL01	VY1218SBL01	1,2-Dichloroethane-d4	50	49.7	99	50	163
		Dibromofluoromethane	50	44.7	89	54	147
		Toluene-d8	50	48.4	97	58	134
		4-Bromofluorobenzene	50	37.4	75	29	146
VY1218SBS01	VY1218SBS01	1,2-Dichloroethane-d4	50	48.4	97	50	163
		Dibromofluoromethane	50	48.3	97	54	147
		Toluene-d8	50	48.7	97	58	134
		4-Bromofluorobenzene	50	46.3	93	29	146
VY1218SBSD01	VY1218SBSD01	1,2-Dichloroethane-d4	50	51.7	103	50	163
		Dibromofluoromethane	50	50.1	100	54	147
		Toluene-d8	50	51.5	103	58	134
		4-Bromofluorobenzene	50	48.3	97	29	146
VY1219SBL01	VY1219SBL01	1,2-Dichloroethane-d4	50	44.5	89	50	163
		Dibromofluoromethane	50	45.8	92	54	147
		Toluene-d8	50	43.8	88	58	134
		4-Bromofluorobenzene	50	40.3	81	29	146
VY1219SBS01	VY1219SBS01	1,2-Dichloroethane-d4	50	54.5	109	50	163
		Dibromofluoromethane	50	55.5	111	54	147
		Toluene-d8	50	55.5	111	58	134
		4-Bromofluorobenzene	50	53.5	107	29	146

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020626.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1218SBS01	cis-1,2-Dichloroethene	20	19.2	ug/Kg	96			82	123	
	1,1,1-Trichloroethane	20	19.4	ug/Kg	97			80	126	
	Benzene	20	19.5	ug/Kg	98			84	121	
	Trichloroethene	20	19.4	ug/Kg	97			83	122	
	Toluene	20	19.3	ug/Kg	97			83	122	
	Ethyl Benzene	20	19.3	ug/Kg	97			82	124	
	m/p-Xylenes	40	38.3	ug/Kg	96			83	124	
	o-Xylene	20	19.1	ug/Kg	96			83	123	
	Isopropylbenzene	20	19.1	ug/Kg	96			82	124	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020627.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1218SBSD01	cis-1,2-Dichloroethene	20	20.8	ug/Kg	104	8		82	123	20
	1,1,1-Trichloroethane	20	20.8	ug/Kg	104	7		80	126	20
	Benzene	20	20.7	ug/Kg	104	6		84	121	20
	Trichloroethene	20	20.7	ug/Kg	104	7		83	122	20
	Toluene	20	20.4	ug/Kg	102	5		83	122	20
	Ethyl Benzene	20	20.3	ug/Kg	102	5		82	124	20
	m/p-Xylenes	40	40.6	ug/Kg	102	6		83	124	20
	o-Xylene	20	20.6	ug/Kg	103	7		83	123	20
	Isopropylbenzene	20	20.1	ug/Kg	101	5		82	124	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8260D **Datafile :** VY020647.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	Limits Low	Limits High	RPD
VY1219SBS01	cis-1,2-Dichloroethene	20	21.3	ug/Kg	106			82	123	
	1,1,1-Trichloroethane	20	21.2	ug/Kg	106			80	126	
	Benzene	20	21.4	ug/Kg	107			84	121	
	Trichloroethene	20	21.4	ug/Kg	107			83	122	
	Toluene	20	21.5	ug/Kg	108			83	122	
	Ethyl Benzene	20	21.2	ug/Kg	106			82	124	
	m/p-Xylenes	40	42.9	ug/Kg	107			83	124	
	o-Xylene	20	21.7	ug/Kg	109			83	123	
	Isopropylbenzene	20	21.1	ug/Kg	106			82	124	

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1218SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020625.D Lab Sample ID: VY1218SBL01

Date Analyzed: 12/18/2024 Time Analyzed: 10:52

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024
COMP-2A	P5277-02	VY020629.D	12/18/2024
COMP-3A	P5277-03	VY020630.D	12/18/2024

COMMENTS:

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VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1219SBL01

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020646.D Lab Sample ID: VY1219SBL01

Date Analyzed: 12/19/2024 Time Analyzed: 11:07

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VY1219SBS01	VY1219SBS01	VY020647.D	12/19/2024
COMP-1A	P5277-01	VY020660.D	12/19/2024

COMMENTS:

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.8
75	30.0 - 60.0% of mass 95	52.6
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	1 (1.3) 1
174	50.0 - 100.0% of mass 95	77.1
175	5.0 - 9.0% of mass 174	6.2 (8) 1
176	95.0 - 101.0% of mass 174	74.2 (96.3) 1
177	5.0 - 9.0% of mass 176	4.8 (6.5) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDICC010	VSTDICC010	VY020613.D	12/17/2024	10:01
VSTDICC020	VSTDICC020	VY020614.D	12/17/2024	10:23
VSTDICCC050	VSTDICCC050	VY020615.D	12/17/2024	10:51
VSTDICC100	VSTDICC100	VY020616.D	12/17/2024	11:14
VSTDICC150	VSTDICC150	VY020617.D	12/17/2024	11:37
VSTDICC005	VSTDICC005	VY020619.D	12/17/2024	14:51

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020622.D BFB Injection Date: 12/18/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:46

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	19.4
75	30.0 - 60.0% of mass 95	52.4
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	7
173	Less than 2.0% of mass 174	0.7 (0.9) 1
174	50.0 - 100.0% of mass 95	78.5
175	5.0 - 9.0% of mass 174	5.8 (7.4) 1
176	95.0 - 101.0% of mass 174	76.1 (97) 1
177	5.0 - 9.0% of mass 176	5.1 (6.7) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020624.D	12/18/2024	10:06
VY1218SBL01	VY1218SBL01	VY020625.D	12/18/2024	10:52
VY1218SBS01	VY1218SBS01	VY020626.D	12/18/2024	11:19
VY1218SBSD01	VY1218SBSD01	VY020627.D	12/18/2024	11:42
COMP-2A	P5277-02	VY020629.D	12/18/2024	12:33
COMP-3A	P5277-03	VY020630.D	12/18/2024	12:57

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VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
BROMOFLUOROBENZENE (BFB)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020644.D BFB Injection Date: 12/19/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:13

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0% of mass 95	18.1
75	30.0 - 60.0% of mass 95	50.7
95	Base Peak, 100% relative abundance	100
96	5.0 - 9.0% of mass 95	6.5
173	Less than 2.0% of mass 174	0.8 (1.1) 1
174	50.0 - 100.0% of mass 95	78.7
175	5.0 - 9.0% of mass 174	6 (7.6) 1
176	95.0 - 101.0% of mass 174	75.6 (96.2) 1
177	5.0 - 9.0% of mass 176	5.2 (6.9) 2

1-Value is % mass 174 2-Value is % mass 176

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
VSTDCCC050	VSTDCCC050	VY020645.D	12/19/2024	09:43
VY1219SBL01	VY1219SBL01	VY020646.D	12/19/2024	11:07
VY1219SBS01	VY1219SBS01	VY020647.D	12/19/2024	11:53
COMP-1A	P5277-01	VY020660.D	12/19/2024	17:09

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	168319	7.71	264221	8.62	226779	11.42
UPPER LIMIT	336638	8.213	528442	9.116	453558	11.92
LOWER LIMIT	84159.5	7.213	132111	8.116	113390	10.92
EPA SAMPLE NO.						
COMP-2A	167185	7.71	323384	8.62	272093	11.41
COMP-3A	165087	7.71	286183	8.62	239715	11.41
VY1218SBL01	201389	7.71	355898	8.62	296016	11.42
VY1218SBS01	167281	7.71	257615	8.62	226665	11.41
VY1218SBSD01	153098	7.71	244096	8.62	214944	11.41

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020624.D Date Analyzed: 12/18/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:06

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	124266	13.347				
UPPER LIMIT	248532	13.847				
LOWER LIMIT	62133	12.847				
EPA SAMPLE NO.						
COMP-2A	105985	13.35				
COMP-3A	94502	13.35				
VY1218SBL01	114022	13.35				
VY1218SBS01	127451	13.35				
VY1218SBSD01	120747	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS1 AREA #	RT #	IS2 AREA #	RT #	IS3 AREA #	RT #
12 HOUR STD	206000	7.71	308825	8.62	266753	11.41
UPPER LIMIT	412000	8.207	617650	9.116	533506	11.914
LOWER LIMIT	103000	7.207	154413	8.116	133377	10.914
EPA SAMPLE NO.						
COMP-1A	108629	7.71	184812	8.62	172200	11.41
VY1219SBL01	204045	7.71	318952	8.62	271132	11.42
VY1219SBS01	184895	7.71	283194	8.62	247561	11.42

IS1 = Pentafluorobenzene
IS2 = 1,4-Difluorobenzene
IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: VY020645.D Date Analyzed: 12/19/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:43

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

	IS4 AREA #	RT #				
12 HOUR STD	146371	13.347				
UPPER LIMIT	292742	13.847				
LOWER LIMIT	73185.5	12.847				
EPA SAMPLE NO.						
COMP-1A	81207	13.35				
VY1219SBL01	145317	13.35				
VY1219SBS01	139236	13.35				

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBL01	SDG No.:	P5277
Lab Sample ID:	VY1218SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020625.D	1		12/18/24 10:52	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	49.7		50 - 163	99%	SPK: 50
1868-53-7	Dibromofluoromethane	44.7		54 - 147	89%	SPK: 50
2037-26-5	Toluene-d8	48.4		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	37.4		29 - 146	75%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	201000	7.713			
540-36-3	1,4-Difluorobenzene	356000	8.616			
3114-55-4	Chlorobenzene-d5	296000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	114000	13.352			

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:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1219SBL01	SDG No.:	P5277
Lab Sample ID:	VY1219SBL01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020646.D	1		12/19/24 11:07	VY121924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	0.61	U	0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	0.78	U	0.78	5.00	ug/Kg
71-43-2	Benzene	0.72	U	0.72	5.00	ug/Kg
79-01-6	Trichloroethene	0.75	U	0.75	5.00	ug/Kg
108-88-3	Toluene	0.67	U	0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	0.62	U	0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	2.10	U	2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	0.67	U	0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	44.5		50 - 163	89%	SPK: 50
1868-53-7	Dibromofluoromethane	45.8		54 - 147	92%	SPK: 50
2037-26-5	Toluene-d8	43.8		58 - 134	88%	SPK: 50
460-00-4	4-Bromofluorobenzene	40.3		29 - 146	81%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	204000	7.707			
540-36-3	1,4-Difluorobenzene	319000	8.616			
3114-55-4	Chlorobenzene-d5	271000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	145000	13.353			

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

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBS01	SDG No.:	P5277
Lab Sample ID:	VY1218SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020626.D	1		12/18/24 11:19	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	19.2		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	19.4		0.78	5.00	ug/Kg
71-43-2	Benzene	19.5		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	19.4		0.75	5.00	ug/Kg
108-88-3	Toluene	19.3		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	19.3		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	57.4		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	19.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	48.4		50 - 163	97%	SPK: 50
1868-53-7	Dibromofluoromethane	48.3		54 - 147	97%	SPK: 50
2037-26-5	Toluene-d8	48.7		58 - 134	97%	SPK: 50
460-00-4	4-Bromofluorobenzene	46.3		29 - 146	93%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	167000	7.707			
540-36-3	1,4-Difluorobenzene	258000	8.616			
3114-55-4	Chlorobenzene-d5	227000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	127000	13.347			

U = Not Detected
LOQ = Limit of Quantitation
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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:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1219SBS01	SDG No.:	P5277
Lab Sample ID:	VY1219SBS01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020647.D	1		12/19/24 11:53	VY121924

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	21.3		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	21.2		0.78	5.00	ug/Kg
71-43-2	Benzene	21.4		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	21.4		0.75	5.00	ug/Kg
108-88-3	Toluene	21.5		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	21.2		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	64.6		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	21.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	54.5		50 - 163	109%	SPK: 50
1868-53-7	Dibromofluoromethane	55.5		54 - 147	111%	SPK: 50
2037-26-5	Toluene-d8	55.6		58 - 134	111%	SPK: 50
460-00-4	4-Bromofluorobenzene	53.6		29 - 146	107%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	185000	7.707			
540-36-3	1,4-Difluorobenzene	283000	8.615			
3114-55-4	Chlorobenzene-d5	248000	11.42			
3855-82-1	1,4-Dichlorobenzene-d4	139000	13.352			

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	VY1218SBSD01	SDG No.:	P5277
Lab Sample ID:	VY1218SBSD01	Matrix:	SOIL
Analytical Method:	SW8260	% Solid:	100
Sample Wt/Vol:	5 Units: g	Final Vol:	5000 uL
Soil Aliquot Vol:	uL	Test:	VOCMS Group1
GC Column:	RXI-624 ID : 0.25	Level :	LOW
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
VY020627.D	1		12/18/24 11:42	VY121824

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
156-59-2	cis-1,2-Dichloroethene	20.8		0.61	5.00	ug/Kg
71-55-6	1,1,1-Trichloroethane	20.8		0.78	5.00	ug/Kg
71-43-2	Benzene	20.7		0.72	5.00	ug/Kg
79-01-6	Trichloroethene	20.7		0.75	5.00	ug/Kg
108-88-3	Toluene	20.4		0.67	5.00	ug/Kg
100-41-4	Ethyl Benzene	20.3		0.62	5.00	ug/Kg
1330-20-7	Total Xylenes	61.2		2.10	15.0	ug/Kg
98-82-8	Isopropylbenzene	20.1		0.67	5.00	ug/Kg
SURROGATES						
17060-07-0	1,2-Dichloroethane-d4	51.7		50 - 163	103%	SPK: 50
1868-53-7	Dibromofluoromethane	50.1		54 - 147	100%	SPK: 50
2037-26-5	Toluene-d8	51.5		58 - 134	103%	SPK: 50
460-00-4	4-Bromofluorobenzene	48.3		29 - 146	97%	SPK: 50
INTERNAL STANDARDS						
363-72-4	Pentafluorobenzene	153000	7.707			
540-36-3	1,4-Difluorobenzene	244000	8.616			
3114-55-4	Chlorobenzene-d5	215000	11.414			
3855-82-1	1,4-Dichlorobenzene-d4	121000	13.347			

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
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

CALIBRATION SUMMARY

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VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

COMPOUND	RRF010	RRF020	RRF050	RRF100	RRF150	RRF005	$\overline{RRF}$	% RSD
cis-1,2-Dichloroethene	0.875	0.815	0.817	0.797	0.724	0.827	0.809	6.1
1,1,1-Trichloroethane	1.298	1.215	1.198	1.183	1.086	1.219	1.200	5.7
Benzene	2.055	1.900	1.859	1.847	1.713	1.927	1.883	5.9
Trichloroethene	0.501	0.462	0.458	0.453	0.422	0.481	0.463	5.8
Toluene	1.247	1.185	1.167	1.165	1.082	1.176	1.170	4.5
Ethyl Benzene	2.747	2.583	2.556	2.543	2.414	2.633	2.579	4.2
m/p-Xylenes	1.031	0.951	0.953	0.942	0.892	0.984	0.959	4.8
o-Xylene	0.956	0.892	0.898	0.887	0.842	0.894	0.895	4.1
Isopropylbenzene	4.636	4.451	4.356	4.284	4.051	4.401	4.363	4.4
1,2-Dichloroethane-d4	0.619	0.487	0.569	0.507	0.467	0.636	0.548	13
Dibromofluoromethane	0.385	0.328	0.360	0.325	0.313	0.404	0.352	10.4
Toluene-d8	1.314	1.127	1.271	1.143	1.100	1.445	1.233	10.9
4-Bromofluorobenzene	0.538	0.448	0.480	0.433	0.412	0.585	0.482	13.9

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/18/2024 10:06

Lab File ID: VY020624.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.809	0.885		9.39	20
1,1,1-Trichloroethane	1.200	1.333		11.08	20
Benzene	1.883	2.047		8.71	20
Trichloroethene	0.463	0.501		8.21	20
Toluene	1.170	1.284		9.74	20
Ethyl Benzene	2.579	2.891		12.1	20
m/p-Xylenes	0.959	1.067		11.26	20
o-Xylene	0.895	1.001		11.84	20
Isopropylbenzene	4.363	4.981		14.16	20
1,2-Dichloroethane-d4	0.548	0.514		-6.2	20
Dibromofluoromethane	0.352	0.333		-5.4	20
Toluene-d8	1.233	1.198		-2.84	20
4-Bromofluorobenzene	0.482	0.430		-10.79	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: MSVOA_Y Calibration Date/Time: 12/19/2024 09:43

Lab File ID: VY020645.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

COMPOUND	RRF	RRF050	MIN RRF	%D	MAX%D
cis-1,2-Dichloroethene	0.809	0.896		10.75	20
1,1,1-Trichloroethane	1.200	1.332		11	20
Benzene	1.883	2.108		11.95	20
Trichloroethene	0.463	0.532		14.9	20
Toluene	1.170	1.319		12.73	20
Ethyl Benzene	2.579	2.931		13.65	20
m/p-Xylenes	0.959	1.097		14.39	20
o-Xylene	0.895	1.028		14.86	20
Isopropylbenzene	4.363	5.035		15.4	20
1,2-Dichloroethane-d4	0.548	0.573		4.56	20
Dibromofluoromethane	0.352	0.398		13.07	20
Toluene-d8	1.233	1.381		12	20
4-Bromofluorobenzene	0.482	0.516		7.05	20

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			SVOCMS Group1	8270E		12/16/24	12/18/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			SVOCMS Group1	8270E		12/16/24	12/18/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			SVOCMS Group1	8270E		12/16/24	12/18/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277

Client: Kleinfelder

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

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140908.D	1	12/16/24 09:20	12/18/24 16:20	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	93.3	U	93.3	190	ug/Kg
86-73-7	Fluorene	96.5	U	96.5	190	ug/Kg
85-01-8	Phenanthrene	94.9	U	94.9	190	ug/Kg
120-12-7	Anthracene	95.3	U	95.3	190	ug/Kg
129-00-0	Pyrene	93.7	U	93.7	190	ug/Kg
56-55-3	Benzo(a)anthracene	91.1	U	91.1	190	ug/Kg
218-01-9	Chrysene	89.8	U	89.8	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	91.6	U	91.6	190	ug/Kg
50-32-8	Benzo(a)pyrene	110	U	110	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	88.2	UQ	88.2	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	90.4	U	90.4	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	76.5		18 - 107	76%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.6		20 - 109	83%	SPK: 100
1718-51-0	Terphenyl-d14	81.8		10 - 105	82%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	57800	6.845			
1146-65-2	Naphthalene-d8	250000	8.128			
15067-26-2	Acenaphthene-d10	135000	9.88			
1517-22-2	Phenanthrene-d10	290000	11.374			
1719-03-5	Chrysene-d12	169000	14.027			
1520-96-3	Perylene-d12	146000	15.515			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School			Date Received:	12/13/24
Client Sample ID:	COMP-1A			SDG No.:	P5277
Lab Sample ID:	P5277-01			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	88.5
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140908.D	1	12/16/24 09:20	12/18/24 16:20	PB165648

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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.9
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140905.D	1	12/16/24 09:20	12/18/24 15:02	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	100	U	100	210	ug/Kg
86-73-7	Fluorene	110	U	110	210	ug/Kg
85-01-8	Phenanthrene	110	U	110	210	ug/Kg
120-12-7	Anthracene	110	U	110	210	ug/Kg
129-00-0	Pyrene	100	U	100	210	ug/Kg
56-55-3	Benzo(a)anthracene	100	U	100	210	ug/Kg
218-01-9	Chrysene	100	U	100	210	ug/Kg
205-99-2	Benzo(b)fluoranthene	100	U	100	210	ug/Kg
50-32-8	Benzo(a)pyrene	120	U	120	210	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	98.7	UQ	98.7	210	ug/Kg
191-24-2	Benzo(g,h,i)perylene	100	U	100	210	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	41.5		18 - 107	42%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.0		20 - 109	44%	SPK: 100
1718-51-0	Terphenyl-d14	45.3		10 - 105	45%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	75900	6.845			
1146-65-2	Naphthalene-d8	277000	8.128			
15067-26-2	Acenaphthene-d10	153000	9.88			
1517-22-2	Phenanthrene-d10	355000	11.374			
1719-03-5	Chrysene-d12	191000	14.027			
1520-96-3	Perylene-d12	174000	15.533			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	78.9
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140905.D	1	12/16/24 09:20	12/18/24 15:02	PB165648

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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140906.D	1	12/16/24 09:20	12/18/24 15:28	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	91.7	U	91.7	190	ug/Kg
86-73-7	Fluorene	94.9	U	94.9	190	ug/Kg
85-01-8	Phenanthrene	93.3	U	93.3	190	ug/Kg
120-12-7	Anthracene	93.7	U	93.7	190	ug/Kg
129-00-0	Pyrene	92.2	U	92.2	190	ug/Kg
56-55-3	Benzo(a)anthracene	89.6	U	89.6	190	ug/Kg
218-01-9	Chrysene	88.3	U	88.3	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	90.1	U	90.1	190	ug/Kg
50-32-8	Benzo(a)pyrene	100	U	100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	86.7	UQ	86.7	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	89.0	U	89.0	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	34.7		18 - 107	35%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.5		20 - 109	36%	SPK: 100
1718-51-0	Terphenyl-d14	44.2		10 - 105	44%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68300	6.845			
1146-65-2	Naphthalene-d8	258000	8.128			
15067-26-2	Acenaphthene-d10	133000	9.88			
1517-22-2	Phenanthrene-d10	333000	11.374			
1719-03-5	Chrysene-d12	181000	14.027			
1520-96-3	Perylene-d12	153000	15.527			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	89.9
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140906.D	1	12/16/24 09:20	12/18/24 15:28	PB165648

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

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P5277-01	COMP-1A	Nitrobenzene-d5	100	76.5	76		18	107
		2-Fluorobiphenyl	100	82.6	83		20	109
		Terphenyl-d14	100	81.8	82		10	105
P5277-01MS	COMP-1AMS	Nitrobenzene-d5	100	67.1	67		18	107
		2-Fluorobiphenyl	100	77.1	77		20	109
		Terphenyl-d14	100	74.2	74		10	105
P5277-01MSD	COMP-1AMSD	Nitrobenzene-d5	100	63.6	64		18	107
		2-Fluorobiphenyl	100	65.1	65		20	109
		Terphenyl-d14	100	71.5	72		10	105
P5277-02	COMP-2A	Nitrobenzene-d5	100	41.5	42		18	107
		2-Fluorobiphenyl	100	44.0	44		20	109
		Terphenyl-d14	100	45.3	45		10	105
P5277-03	COMP-3A	Nitrobenzene-d5	100	34.7	35		18	107
		2-Fluorobiphenyl	100	36.5	36		20	109
		Terphenyl-d14	100	44.2	44		10	105
PB165648BL	PB165648BL	Nitrobenzene-d5	100	89.1	89		18	107
		2-Fluorobiphenyl	100	84.2	84		20	109
		Terphenyl-d14	100	77.8	78		10	105
PB165648BS	PB165648BS	Nitrobenzene-d5	100	89.6	90		18	107
		2-Fluorobiphenyl	100	82.9	83		20	109
		Terphenyl-d14	100	88.7	89		10	105

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5277-01MS		**Client Sample ID: COMP-1AMS**						**DataFile: BF140909.D**			
Naphthalene	1900	0	1800	ug/Kg	95				72	110	
Fluorene	1900	0	1800	ug/Kg	95				68	116	
Phenanthrene	1900	0	1900	ug/Kg	100				52	128	
Anthracene	1900	0	2000	ug/Kg	105				62	124	
Pyrene	1900	0	2100	ug/Kg	111				26	142	
Benzo(a)anthracene	1900	0	1800	ug/Kg	95				71	114	
Chrysene	1900	0	1900	ug/Kg	100				57	121	
Benzo(b)fluoranthene	1900	0	1800	ug/Kg	95				67	121	
Benzo(a)pyrene	1900	0	2000	ug/Kg	105				70	142	
Indeno(1,2,3-cd)pyrene	1900	0	2000	ug/Kg	105				40	129	
Benzo(g,h,i)perylene	1900	0	1800	ug/Kg	95				24	125	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: P5277-01MSD		**Client Sample ID: COMP-1AMSD**						**DataFile: BF140910.D**			
Naphthalene	1900	0	1700	ug/Kg	89		7		72	110	20
Fluorene	1900	0	1800	ug/Kg	95		0		68	116	20
Phenanthrene	1900	0	1900	ug/Kg	100		0		52	128	20
Anthracene	1900	0	2000	ug/Kg	105		0		62	124	20
Pyrene	1900	0	2000	ug/Kg	105		6		26	142	20
Benzo(a)anthracene	1900	0	1900	ug/Kg	100		5		71	114	20
Chrysene	1900	0	1700	ug/Kg	89		12		57	121	20
Benzo(b)fluoranthene	1900	0	2000	ug/Kg	105		10		67	121	20
Benzo(a)pyrene	1900	0	1900	ug/Kg	100		5		70	142	20
Indeno(1,2,3-cd)pyrene	1900	0	2100	ug/Kg	111		6		40	129	20
Benzo(g,h,i)perylene	1900	0	1600	ug/Kg	84		12		24	125	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8270E **DataFile:** BF140898.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165648BS	Naphthalene	1700	1500	ug/Kg	88				62	100	
	Fluorene	1700	1400	ug/Kg	82				61	101	
	Phenanthrene	1700	1500	ug/Kg	88				59	103	
	Anthracene	1700	1500	ug/Kg	88				61	105	
	Pyrene	1700	1500	ug/Kg	88				59	103	
	Benzo(a)anthracene	1700	1600	ug/Kg	94				60	102	
	Chrysene	1700	1600	ug/Kg	94				59	101	
	Benzo(b)fluoranthene	1700	1800	ug/Kg	106				62	109	
	Benzo(a)pyrene	1700	1700	ug/Kg	100				63	103	
	Indeno(1,2,3-cd)pyrene	1700	1900	ug/Kg	112		*		63	101	
	Benzo(g,h,i)perylene	1700	1800	ug/Kg	106				70	108	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165648BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab File ID: BF140897.D Lab Sample ID: PB165648BL

Instrument ID: BNA_F Date Extracted: 12/16/2024

Matrix: (soil/water) SOIL Date Analyzed: 12/18/2024

Level: (low/med) LOW Time Analyzed: 11:27

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
COMP-2A	P5277-02	BF140905.D	12/18/2024
COMP-3A	P5277-03	BF140906.D	12/18/2024
COMP-1AMSD	P5277-01MSD	BF140910.D	12/18/2024
PB165648BS	PB165648BS	BF140898.D	12/18/2024
COMP-1A	P5277-01	BF140908.D	12/18/2024
COMP-1AMS	P5277-01MS	BF140909.D	12/18/2024

COMMENTS:

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P5277 SDG NO.: P5277

Lab File ID: BF140854.D DFTPP Injection Date: 12/16/2024

Instrument ID: BNA_F DFTPP Injection Time: 11:21

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	35.6
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	48.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.7
275	10.0 - 60.0% of mass 198	28.9
365	Greater than 1% of mass 198	3.7
441	Present, but less than mass 443	13.6
442	Greater than 50% of mass 198	86.8
443	15.0 - 24.0% of mass 442	16.9 (19.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF140855.D	12/16/2024	12:13
SSTDICC005	SSTDICC005	BF140856.D	12/16/2024	12:39
SSTDICC010	SSTDICC010	BF140857.D	12/16/2024	13:05
SSTDICC020	SSTDICC020	BF140858.D	12/16/2024	14:00
SSTDICCC040	SSTDICCC040	BF140859.D	12/16/2024	14:26
SSTDICC050	SSTDICC050	BF140860.D	12/16/2024	15:23
SSTDICC060	SSTDICC060	BF140861.D	12/16/2024	15:49
SSTDICC080	SSTDICC080	BF140862.D	12/16/2024	16:15

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM SAS No.: P5277 SDG NO.: P5277

Lab File ID: BF140895.D DFTPP Injection Date: 12/18/2024

Instrument ID: BNA_F DFTPP Injection Time: 09:41

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	33.3
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	34.8
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	47.6
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	29.2
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	14.2
442	Greater than 50% of mass 198	95.6
443	15.0 - 24.0% of mass 442	17.6 (18.4) 2

1-Value is % mass 69 2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF140896.D	12/18/2024	10:43
PB165648BL	PB165648BL	BF140897.D	12/18/2024	11:27
PB165648BS	PB165648BS	BF140898.D	12/18/2024	11:53
COMP-2A	P5277-02	BF140905.D	12/18/2024	15:02
COMP-3A	P5277-03	BF140906.D	12/18/2024	15:28
COMP-1A	P5277-01	BF140908.D	12/18/2024	16:20
COMP-1AMS	P5277-01MS	BF140909.D	12/18/2024	16:46
COMP-1AMSD	P5277-01MSD	BF140910.D	12/18/2024	17:12

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/18/2024

Lab File ID: BF140896.D Time Analyzed: 10:43

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	88984	6.851	307954	8.13	178243	9.89
	UPPER LIMIT	177968	7.351	615908	8.634	356486	10.386
	LOWER LIMIT	44492	6.351	153977	7.634	89121.5	9.386
	EPA SAMPLE NO.						
01	PB165648BL	76848	6.85	304412	8.13	183535	9.88
02	PB165648BS	81466	6.85	321545	8.13	194109	9.89
03	COMP-1A	57787	6.85	250481	8.13	134816	9.88
04	COMP-1AMS	67242	6.85	255498	8.13	136301	9.89
05	COMP-1AMSD	72196	6.85	286565	8.13	159772	9.89
06	COMP-2A	75903	6.85	277281	8.13	152541	9.88
07	COMP-3A	68340	6.85	257883	8.13	133043	9.88

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

EPA Sample No.: SSTDCCC040 Date Analyzed: 12/18/2024

Lab File ID: BF140896.D Time Analyzed: 10:43

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	366627	11.381	240438	14.039	194500	15.533
	UPPER LIMIT	733254	11.881	480876	14.539	389000	16.033
	LOWER LIMIT	183314	10.881	120219	13.539	97250	15.033
	EPA SAMPLE NO.						
01	PB165648BL	373254	11.38	284135	14.03	222606	15.53
02	PB165648BS	376011	11.38	249574	14.03	160098	15.52
03	COMP-1A	289600	11.37	168984	14.03	145909	15.52
04	COMP-1AMS	272033	11.38	155658	14.03	148257	15.51
05	COMP-1AMSD	297605	11.38	174501	14.03	150856	15.51
06	COMP-2A	355180	11.37	191230	14.03	173762	15.53
07	COMP-3A	333312	11.37	181403	14.03	152865	15.53

IS4 (PHN) = Phenanthrene-d10
IS5 (CRY) = Chrysene-d12
IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT UPPER LIMIT = -0.50 minutes of internal standard RT

Column used to flag values outside QC limits with an asterisk.
* Values outside of QC limits.

QC SAMPLE DATA

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165648BL	SDG No.:	P5277
Lab Sample ID:	PB165648BL	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140897.D	1	12/16/24 09:20	12/18/24 11:27	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	82.5	U	82.5	170	ug/Kg
86-73-7	Fluorene	85.4	U	85.4	170	ug/Kg
85-01-8	Phenanthrene	83.9	U	83.9	170	ug/Kg
120-12-7	Anthracene	84.3	U	84.3	170	ug/Kg
129-00-0	Pyrene	82.9	U	82.9	170	ug/Kg
56-55-3	Benzo(a)anthracene	80.6	U	80.6	170	ug/Kg
218-01-9	Chrysene	79.4	U	79.4	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	81.0	U	81.0	170	ug/Kg
50-32-8	Benzo(a)pyrene	92.9	U	92.9	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	78.0	U	78.0	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	80.0	U	80.0	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	89.1		18 - 107	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.2		20 - 109	84%	SPK: 100
1718-51-0	Terphenyl-d14	77.8		10 - 105	78%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	76800	6.846			
1146-65-2	Naphthalene-d8	304000	8.128			
15067-26-2	Acenaphthene-d10	184000	9.881			
1517-22-2	Phenanthrene-d10	373000	11.375			
1719-03-5	Chrysene-d12	284000	14.027			
1520-96-3	Perylene-d12	223000	15.527			

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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Tanner G. Duckrey Public School			Date Received:	
Client Sample ID:	PB165648BL			SDG No.:	P5277
Lab Sample ID:	PB165648BL			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140897.D	1	12/16/24 09:20	12/18/24 11:27	PB165648

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:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165648BS	SDG No.:	P5277
Lab Sample ID:	PB165648BS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	100
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140898.D	1	12/16/24 09:20	12/18/24 11:53	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1500		82.6	170	ug/Kg
86-73-7	Fluorene	1400		85.5	170	ug/Kg
85-01-8	Phenanthrene	1500		84.0	170	ug/Kg
120-12-7	Anthracene	1500		84.4	170	ug/Kg
129-00-0	Pyrene	1500		83.0	170	ug/Kg
56-55-3	Benzo(a)anthracene	1600		80.7	170	ug/Kg
218-01-9	Chrysene	1600		79.5	170	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		81.1	170	ug/Kg
50-32-8	Benzo(a)pyrene	1700		93.0	170	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1900		78.1	170	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		80.1	170	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	89.6		18 - 107	90%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.9		20 - 109	83%	SPK: 100
1718-51-0	Terphenyl-d14	88.7		10 - 105	89%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	81500	6.851			
1146-65-2	Naphthalene-d8	322000	8.128			
15067-26-2	Acenaphthene-d10	194000	9.886			
1517-22-2	Phenanthrene-d10	376000	11.38			
1719-03-5	Chrysene-d12	250000	14.033			
1520-96-3	Perylene-d12	160000	15.521			

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Report of Analysis

Client:	Kleinfelder			Date Collected:	
Project:	Tanner G. Duckrey Public School			Date Received:	
Client Sample ID:	PB165648BS			SDG No.:	P5277
Lab Sample ID:	PB165648BS			Matrix:	SOIL
Analytical Method:	SW8270			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group1
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3541				

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140898.D	1	12/16/24 09:20	12/18/24 11:53	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
LOQ = Limit of Quantitation
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D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1AMS	SDG No.:	P5277
Lab Sample ID:	P5277-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140909.D	1	12/16/24 09:20	12/18/24 16:46	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1800		93.2	190	ug/Kg
86-73-7	Fluorene	1800		96.5	190	ug/Kg
85-01-8	Phenanthrene	1900		94.8	190	ug/Kg
120-12-7	Anthracene	2000		95.2	190	ug/Kg
129-00-0	Pyrene	2100		93.7	190	ug/Kg
56-55-3	Benzo(a)anthracene	1800		91.1	190	ug/Kg
218-01-9	Chrysene	1900		89.7	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	1800		91.5	190	ug/Kg
50-32-8	Benzo(a)pyrene	2000		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2000		88.1	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1800		90.4	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	67.1		18 - 107	67%	SPK: 100
321-60-8	2-Fluorobiphenyl	77.1		20 - 109	77%	SPK: 100
1718-51-0	Terphenyl-d14	74.2		10 - 105	74%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67200	6.845			
1146-65-2	Naphthalene-d8	255000	8.128			
15067-26-2	Acenaphthene-d10	136000	9.886			
1517-22-2	Phenanthrene-d10	272000	11.38			
1719-03-5	Chrysene-d12	156000	14.027			
1520-96-3	Perylene-d12	148000	15.51			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1AMS	SDG No.:	P5277
Lab Sample ID:	P5277-01MS	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140909.D	1	12/16/24 09:20	12/18/24 16:46	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1AMSD	SDG No.:	P5277
Lab Sample ID:	P5277-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140910.D	1	12/16/24 09:20	12/18/24 17:12	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
91-20-3	Naphthalene	1700		93.1	190	ug/Kg
86-73-7	Fluorene	1800		96.3	190	ug/Kg
85-01-8	Phenanthrene	1900		94.6	190	ug/Kg
120-12-7	Anthracene	2000		95.1	190	ug/Kg
129-00-0	Pyrene	2000		93.5	190	ug/Kg
56-55-3	Benzo(a)anthracene	1900		90.9	190	ug/Kg
218-01-9	Chrysene	1700		89.6	190	ug/Kg
205-99-2	Benzo(b)fluoranthene	2000		91.4	190	ug/Kg
50-32-8	Benzo(a)pyrene	1900		100	190	ug/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	2100		88.0	190	ug/Kg
191-24-2	Benzo(g,h,i)perylene	1600		90.2	190	ug/Kg
SURROGATES						
4165-60-0	Nitrobenzene-d5	63.6		18 - 107	64%	SPK: 100
321-60-8	2-Fluorobiphenyl	65.1		20 - 109	65%	SPK: 100
1718-51-0	Terphenyl-d14	71.5		10 - 105	72%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	72200	6.845			
1146-65-2	Naphthalene-d8	287000	8.128			
15067-26-2	Acenaphthene-d10	160000	9.886			
1517-22-2	Phenanthrene-d10	298000	11.375			
1719-03-5	Chrysene-d12	175000	14.027			
1520-96-3	Perylene-d12	151000	15.51			

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1AMSD	SDG No.:	P5277
Lab Sample ID:	P5277-01MSD	Matrix:	SOIL
Analytical Method:	SW8270	% Solid:	88.5
Sample Wt/Vol:	30.09 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group1
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF140910.D	1	12/16/24 09:20	12/18/24 17:12	PB165648

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

U = Not Detected
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LOD = Limit of Detection
E = Value Exceeds Calibration Range
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J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Mon Dec 16 16:59:50 2024
Response Via : Initial Calibration

Calibration Files
2.5 =BF140855.D 5 =BF140856.D 10 =BF140857.D 20 =BF140858.D 40 =BF140859.D 50 =BF140860.D 60 =BF140861.D 80 =BF1408
62.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------	ISTD	----------							
2)		1,4-Dioxane		0.547	0.536	0.537	0.503	0.520	0.527	0.492	0.523	3.76
3)		Pyridine		1.203	1.182	1.284	1.222	1.221	1.235	1.136	1.212	3.78
4)		n-Nitrosodimet...		0.598	0.593	0.626	0.603	0.621	0.648	0.587	0.611	3.58
5)	S	2-Fluorophenol		1.211	1.236	1.279	1.199	1.231	1.242	1.107	1.215	4.45
6)		Aniline		1.408	1.461	1.448	1.374	1.364	1.369	1.208	1.376	6.06
7)	S	Phenol-d6		1.692	1.661	1.661	1.567	1.576	1.623	1.485	1.609	4.45
8)		2-Chlorophenol		1.343	1.379	1.357	1.301	1.313	1.351	1.230	1.325	3.75
9)		Benzaldehyde		1.048	1.051	0.993	0.864	0.823	0.800	0.663	0.892	16.27
10)	C	Phenol		1.756	1.690	1.733	1.630	1.643	1.688	1.534	1.668	4.44
11)		bis(2-Chloroet...		1.277	1.242	1.281	1.227	1.237	1.267	1.176	1.244	2.93
12)		1,3-Dichlorobe...		1.584	1.540	1.557	1.469	1.495	1.530	1.394	1.510	4.21
13)	C	1,4-Dichlorobe...		1.607	1.601	1.583	1.497	1.495	1.546	1.397	1.532	4.91
14)		1,2-Dichlorobe...		1.521	1.495	1.509	1.436	1.403	1.434	1.322	1.446	4.86
15)		Benzyl Alcohol		1.146	1.143	1.236	1.150	1.143	1.179	1.056	1.151	4.64
16)		2,2'-oxybis(1-...		1.563	1.495	1.519	1.438	1.438	1.443	1.359	1.465	4.53
17)		2-Methylphenol		1.081	1.105	1.080	1.039	1.039	1.067	0.993	1.058	3.51
18)		Hexachloroethane		0.600	0.580	0.585	0.556	0.557	0.580	0.535	0.570	3.86
19)	P	n-Nitroso-di-n...	1.005	1.030	1.004	0.999	0.922	0.938	0.949	0.873	0.965	5.52
20)		3+4-Methylphenols		1.503	1.491	1.440	1.355	1.360	1.396	1.273	1.403	5.82
21)	I	Naphthalene-d8	----------	ISTD	----------							
22)		Acetophenone		0.526	0.503	0.520	0.493	0.496	0.518	0.446	0.500	5.41
23)	S	Nitrobenzene-d5		0.406	0.401	0.420	0.393	0.397	0.415	0.366	0.400	4.42
24)		Nitrobenzene		0.418	0.411	0.425	0.402	0.408	0.429	0.375	0.410	4.40
25)		Isophorone		0.681	0.672	0.690	0.651	0.664	0.700	0.631	0.670	3.55
26)	C	2-Nitrophenol		0.183	0.185	0.193	0.187	0.191	0.201	0.180	0.189	3.79
27)		2,4-Dimethylph...		0.221	0.220	0.225	0.220	0.219	0.228	0.210	0.220	2.61
28)		bis(2-Chloroet...		0.431	0.414	0.429	0.417	0.418	0.426	0.394	0.418	3.04
29)	C	2,4-Dichloroph...		0.300	0.310	0.313	0.299	0.301	0.316	0.290	0.304	3.07
30)		1,2,4-Trichlor...		0.360	0.354	0.357	0.341	0.342	0.362	0.325	0.349	3.77
31)		Naphthalene		1.138	1.125	1.126	1.067	1.090	1.124	1.020	1.099	3.86
32)		Benzoic acid			0.173	0.192	0.212	0.220	0.237	0.220	0.209	10.98
33)		4-Chloroaniline		0.371	0.375	0.377	0.361	0.358	0.363	0.349	0.365	2.74
34)	C	Hexachlorobuta...		0.239	0.235	0.244	0.232	0.233	0.239	0.219	0.235	3.42
35)		Caprolactam		0.085	0.090	0.090	0.090	0.089	0.092	0.097	0.091	3.88
36)	C	4-Chloro-3-met...		0.342	0.347	0.347	0.338	0.332	0.342	0.348	0.342	1.72
37)		2-Methylnaphth...		0.744	0.734	0.740	0.721	0.700	0.719	0.729	0.727	2.08
38)		1-Methylnaphth...		0.758	0.743	0.716	0.706	0.686	0.706	0.716	0.719	3.36

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.622	0.573	0.641	0.580	0.576	0.622	0.689	0.615	6.88
41)	P	Hexachlorocycl...		0.091	0.120	0.142	0.163	0.183	0.221	0.153	30.05
42)	S	2,4,6-Tribromo...	0.235	0.236	0.242	0.240	0.235	0.243	0.225	0.237	2.56
43)	C	2,4,6-Trichlor...	0.348	0.339	0.386	0.364	0.357	0.395	0.446	0.376	9.68
44)		2,4,5-Trichlor...	0.413	0.365	0.426	0.397	0.395	0.426	0.475	0.414	8.28
45)	S	2-Fluorobiphenyl	1.560	1.410	1.538	1.369	1.345	1.445	1.517	1.455	5.85
46)		1,1'-Biphenyl	1.678	1.512	1.639	1.513	1.463	1.575	1.752	1.590	6.54
47)		2-Chloronaphth...	1.236	1.157	1.254	1.169	1.124	1.206	1.370	1.217	6.69
48)		2-Nitroaniline	0.350	0.346	0.372	0.358	0.341	0.378	0.428	0.367	8.14
49)		Acenaphthylene	1.874	1.821	1.880	1.734	1.696	1.783	1.727	1.788	4.09
50)		Dimethylphthalate	1.431	1.367	1.438	1.359	1.308	1.417	1.549	1.410	5.45
51)		2,6-Dinitrotol...	0.320	0.317	0.328	0.312	0.303	0.321	0.355	0.322	5.06
52)	C	Acenaphthene	1.228	1.190	1.166	1.113	1.100	1.148	1.049	1.142	5.25
53)		3-Nitroaniline	0.322	0.316	0.328	0.316	0.325	0.325	0.307	0.320	2.29
54)	P	2,4-Dinitrophenol		0.088	0.108	0.134	0.145	0.160	0.157	0.132	21.60
55)		Dibenzofuran	1.920	1.876	1.830	1.728	1.705	1.746	1.583	1.770	6.48
56)	P	4-Nitrophenol		0.091	0.133	0.165	0.169	0.176	0.167	0.150	21.61
57)		2,4-Dinitrotol...	0.435	0.438	0.440	0.419	0.421	0.426	0.389	0.424	4.12
58)		Fluorene	1.573	1.522	1.492	1.444	1.429	1.425	1.335	1.460	5.29
59)		2,3,4,6-Tetrac...	0.297	0.312	0.345	0.354	0.356	0.356	0.341	0.337	6.99
60)		Diethylphthalate	1.562	1.484	1.496	1.439	1.446	1.461	1.346	1.462	4.48
61)		4-Chlorophenyl...	0.780	0.750	0.759	0.716	0.727	0.728	0.674	0.733	4.62
62)		4-Nitroaniline	0.329	0.333	0.339	0.338	0.343	0.339	0.320	0.334	2.37
63)		Azobenzene	1.482	1.411	1.394	1.368	1.358	1.334	1.273	1.375	4.74
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.099	0.109	0.117	0.118	0.129	0.109	0.113	8.96
66)	c	n-Nitrosodiphe...	0.639	0.679	0.644	0.599	0.592	0.626	0.527	0.615	7.90
67)		4-Bromophenyl-...	0.225	0.248	0.236	0.220	0.214	0.231	0.192	0.224	7.97
68)		Hexachlorobenzene	0.257	0.280	0.268	0.246	0.245	0.258	0.223	0.254	7.24
69)		Atrazine	0.200	0.204	0.193	0.168	0.153	0.157	0.127	0.172	16.48
70)	C	Pentachlorophenol		0.062	0.082	0.098	0.102	0.106	0.106	0.093	18.65
71)		Phenanthrene	1.125	1.081	1.072	0.983	0.988	1.013	0.937	1.028	6.45
72)		Anthracene	1.091	1.064	1.053	0.970	0.978	1.000	0.934	1.013	5.66
73)		Carbazole	1.086	1.018	1.026	0.952	0.972	0.970	0.920	0.992	5.58
74)		Di-n-butylphth...	1.245	1.206	1.232	1.129	1.185	1.186	0.968	1.164	8.12
75)	C	Fluoranthene	1.364	1.291	1.251	1.130	1.138	1.175	0.943	1.184	11.51
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.319	0.401	0.404	0.493	0.454	0.378	0.408	14.76
78)		Pyrene	1.904	1.719	1.650	1.699	1.761	1.769	1.948	1.779	6.12
79)	S	Terphenyl-d14	1.354	1.247	1.218	1.206	1.212	1.260	1.381	1.268	5.58
80)		Butylbenzylpht...	0.650	0.616	0.621	0.646	0.672	0.681	0.696	0.654	4.59
81)		Benzo(a)anthra...	1.494	1.473	1.421	1.359	1.388	1.418	1.369	1.417	3.60
82)		3,3'-Dichlorob...	0.429	0.427	0.449	0.412	0.432	0.446	0.399	0.428	4.14
83)		Chrysene	1.361	1.284	1.364	1.271	1.254	1.283	1.206	1.289	4.40
84)		Bis(2-ethylhex...	0.804	0.807	0.875	0.821	0.855	0.890	0.855	0.844	3.99
85)	c	Di-n-octyl pht...	1.267	1.170	1.348	1.223	1.341	1.324	1.263	1.277	5.17

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF121624.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.130	1.174	1.330	1.269	1.109	1.330	1.395	1.248	8.90
88)		Benzo(b)fluora...	1.454	1.466	1.450	1.294	1.263	1.442	1.349	1.388	6.11
89)		Benzo(k)fluora...	1.318	1.250	1.223	1.224	1.142	1.182	0.996	1.191	8.57
90)	C	Benzo(a)pyrene	1.099	1.084	1.134	1.073	1.056	1.122	1.042	1.087	3.10
91)		Dibenzo(a,h)an...	0.913	0.986	1.092	1.058	0.918	1.116	1.154	1.034	9.30
92)		Benzo(g,h,i)pe...	0.961	0.972	1.094	1.073	0.944	1.098	1.225	1.052	9.53

(#) = Out of Range

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7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG No.: P5277

Instrument ID: BNA_F Calibration Date/Time: 12/18/2024 10:43

Lab File ID: BF140896.D Init. Calib. Date(s): 12/16/2024 12/16/2024

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 12:13 16:15

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.215	1.202		-1.1	
Phenol-d6	1.609	1.679		4.4	
Nitrobenzene-d5	0.400	0.432		8.0	
Naphthalene	1.099	1.068		-2.8	
2-Fluorobiphenyl	1.455	1.461		0.4	
Fluorene	1.460	1.412		-3.3	
2,4,6-Tribromophenol	0.237	0.227		-4.2	
Phenanthrene	1.028	0.979		-4.8	
Anthracene	1.013	0.861		-15.0	
Pyrene	1.779	1.585		-10.9	
Terphenyl-d14	1.268	1.148		-9.5	
Benzo(a)anthracene	1.417	1.357		-4.2	
Chrysene	1.289	1.234		-4.3	
Benzo(b)fluoranthene	1.388	1.313		-5.4	
Benzo(a)pyrene	1.087	1.076		-1.0	20.0
Indeno(1,2,3-cd)pyrene	1.248	1.078		-13.6	
Benzo(g,h,i)perylene	1.052	0.922		-12.4	

All other compounds must meet a minimum RRF of 0.010.

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			PESTICIDE Group1	8081B		12/16/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277 **Order ID:** P5277

Client: Kleinfelder **Project ID:** Tanner G. Duckrey Public School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-3A								
P5277-03	COMP-3A	SOIL	4,4-DDE	0.31	J	0.14	1.90	ug/kg
P5277-03	COMP-3A	SOIL	4,4-DDD	0.31	J	0.21	1.90	ug/kg
P5277-03	COMP-3A	SOIL	4,4-DDT	0.29	J	0.19	1.90	ug/kg
			Total Concentration:	**0.910**				

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	88.5 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093385.D	1	12/16/24 08:51	12/16/24 14:13	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	0.15	U	0.15	1.90	ug/kg
72-54-8	4,4-DDD	0.21	U	0.21	1.90	ug/kg
50-29-3	4,4-DDT	0.19	U	0.19	1.90	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.2		10 - 148	106%	SPK: 20
877-09-8	Tetrachloro-m-xylene	20.6		10 - 159	103%	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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093386.D	1	12/16/24 08:51	12/16/24 14:26	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.18	U	0.18	2.20	ug/kg
60-57-1	Dieldrin	0.19	U	0.19	2.20	ug/kg
72-55-9	4,4-DDE	0.16	U	0.16	2.20	ug/kg
72-54-8	4,4-DDD	0.24	U	0.24	2.20	ug/kg
50-29-3	4,4-DDT	0.22	U	0.22	2.20	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	20.4		10 - 148	102%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.8		10 - 159	109%	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
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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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	89.9 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093389.D	1	12/16/24 08:51	12/16/24 15:07	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.16	U	0.16	1.90	ug/kg
60-57-1	Dieldrin	0.17	U	0.17	1.90	ug/kg
72-55-9	4,4-DDE	0.31	J	0.14	1.90	ug/kg
72-54-8	4,4-DDD	0.31	J	0.21	1.90	ug/kg
50-29-3	4,4-DDT	0.29	J	0.19	1.90	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.7		10 - 148	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.2		10 - 159	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

QC SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Surrogate Summary

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PL093230.D	PIBLK-PL093230.D	Decachlorobiphenyl	1	20	21.6	108		43	140
		Tetrachloro-m-xylene	1	20	21.2	106		77	126
		Decachlorobiphenyl	2	20	21.5	107		43	140
		Tetrachloro-m-xylene	2	20	20.4	102		77	126
I.BLK-PL093379.D	PIBLK-PL093379.D	Decachlorobiphenyl	1	20	25.2	126		43	140
		Tetrachloro-m-xylene	1	20	22.8	114		77	126
		Decachlorobiphenyl	2	20	21.3	107		43	140
		Tetrachloro-m-xylene	2	20	21.8	109		77	126
PB165647BL	PB165647BL	Decachlorobiphenyl	1	20	23.4	117		10	148
		Tetrachloro-m-xylene	1	20	19.8	99		10	159
		Decachlorobiphenyl	2	20	21.4	107		10	148
		Tetrachloro-m-xylene	2	20	19.0	95		10	159
PB165647BS	PB165647BS	Decachlorobiphenyl	1	20	23.4	117		10	148
		Tetrachloro-m-xylene	1	20	19.3	97		10	159
		Decachlorobiphenyl	2	20	20.9	104		10	148
		Tetrachloro-m-xylene	2	20	18.6	93		10	159
P5277-01	COMP-1A	Decachlorobiphenyl	1	20	20.5	103		10	148
		Tetrachloro-m-xylene	1	20	20.6	103		10	159
		Decachlorobiphenyl	2	20	21.2	106		10	148
		Tetrachloro-m-xylene	2	20	20.6	103		10	159
P5277-02	COMP-2A	Decachlorobiphenyl	1	20	20.4	102		10	148
		Tetrachloro-m-xylene	1	20	21.6	108		10	159
		Decachlorobiphenyl	2	20	18.3	91		10	148
		Tetrachloro-m-xylene	2	20	21.8	109		10	159
P5277-02MS	COMP-2AMS	Decachlorobiphenyl	1	20	17.1	86		10	148
		Tetrachloro-m-xylene	1	20	17.7	89		10	159
		Decachlorobiphenyl	2	20	18.6	93		10	148
		Tetrachloro-m-xylene	2	20	17.5	87		10	159
P5277-02MSD	COMP-2AMSD	Decachlorobiphenyl	1	20	18.3	91		10	148
		Tetrachloro-m-xylene	1	20	18.3	92		10	159
		Decachlorobiphenyl	2	20	19.1	95		10	148
		Tetrachloro-m-xylene	2	20	17.8	89		10	159
P5277-03	COMP-3A	Decachlorobiphenyl	1	20	23.7	119		10	148
		Tetrachloro-m-xylene	1	20	21.8	109		10	159
		Decachlorobiphenyl	2	20	22.0	110		10	148
		Tetrachloro-m-xylene	2	20	22.2	111		10	159
I.BLK-PL093392.D	PIBLK-PL093392.D	Decachlorobiphenyl	1	20	23.9	119		43	140
		Tetrachloro-m-xylene	1	20	21.3	107		77	126
		Decachlorobiphenyl	2	20	22.1	110		43	140
		Tetrachloro-m-xylene	2	20	21.3	106		77	126

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **DataFile :** PL093387.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Client Sample ID:	**COMP-2AMS**											
P5277-02MS	Aldrin	21.07	0	21.0	ug/kg	100				49	139	
	Dieldrin	21.07	0	22.1	ug/kg	105				47	161	
	4,4'-DDE	21.07	0	22.0	ug/kg	104				55	136	
	4,4'-DDD	21.07	0	21.9	ug/kg	104				37	192	
	4,4'-DDT	21.07	0	22.3	ug/kg	106				51	146	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **DataFile :** PL093388.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**COMP-2AMSD**											
P5277-02MSD	Aldrin	21.11	0	22.0	ug/kg	104		4		49	139	20
	Dieldrin	21.11	0	23.1	ug/kg	109		4		47	161	20
	4,4'-DDE	21.11	0	22.9	ug/kg	108		4		55	136	20
	4,4'-DDD	21.11	0	22.7	ug/kg	108		4		37	192	20
	4,4'-DDT	21.11	0	22.8	ug/kg	108		2		51	146	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8081B **Datafile :** PL093383.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165647BS	Aldrin	16.66	16.8	ug/kg	101				82	124	
	Dieldrin	16.66	17.7	ug/kg	106				85	121	
	4,4'-DDE	16.66	17.3	ug/kg	104				81	123	
	4,4'-DDD	16.66	17.3	ug/kg	104				80	131	
	4,4'-DDT	16.66	17.6	ug/kg	106				70	129	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165647BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab Sample ID: PB165647BL Lab File ID: PL093382.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 12/16/2024

Date Analyzed (1): 12/16/2024 Date Analyzed (2): 12/16/2024

Time Analyzed (1): 13:32 Time Analyzed (2): 13:32

Instrument ID (1): ECD_L Instrument ID (2): ECD_L

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165647BS	PB165647BS	PL093383.D	12/16/2024	12/16/2024
COMP-1A	P5277-01	PL093385.D	12/16/2024	12/16/2024
COMP-2A	P5277-02	PL093386.D	12/16/2024	12/16/2024
COMP-2AMS	P5277-02MS	PL093387.D	12/16/2024	12/16/2024
COMP-2AMSD	P5277-02MSD	PL093388.D	12/16/2024	12/16/2024
COMP-3A	P5277-03	PL093389.D	12/16/2024	12/16/2024

COMMENTS:

QC SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165647BL	SDG No.:	P5277
Lab Sample ID:	PB165647BL	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093382.D	1	12/16/24 08:51	12/16/24 13:32	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	0.14	U	0.14	1.70	ug/kg
60-57-1	Dieldrin	0.15	U	0.15	1.70	ug/kg
72-55-9	4,4-DDE	0.13	U	0.13	1.70	ug/kg
72-54-8	4,4-DDD	0.19	U	0.19	1.70	ug/kg
50-29-3	4,4-DDT	0.17	U	0.17	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		10 - 148	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.8		10 - 159	99%	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:	Kleinfelder	Date Collected:	11/25/24
Project:	Tanner G. Duckrey Public School	Date Received:	11/25/24
Client Sample ID:	PIBLK-PL093230.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093230.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093230.D	1		11/25/24	PL112524

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	21.6		43 - 140	108%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.2		77 - 126	106%	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:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PL093379.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093379.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093379.D	1		12/16/24	pl121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	25.2		43 - 140	126%	SPK: 20
877-09-8	Tetrachloro-m-xylene	22.8		77 - 126	114%	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:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PL093392.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PL093392.D	Matrix:	WATER
Analytical Method:	SW8081	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093392.D	1		12/16/24	pl121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
309-00-2	Aldrin	0.0044	U	0.0044	0.050	ug/L
60-57-1	Dieldrin	0.0047	U	0.0047	0.050	ug/L
72-55-9	4,4-DDE	0.0045	U	0.0045	0.050	ug/L
72-54-8	4,4-DDD	0.0092	U	0.0092	0.050	ug/L
50-29-3	4,4-DDT	0.0044	U	0.0044	0.050	ug/L
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.9		43 - 140	119%	SPK: 20
877-09-8	Tetrachloro-m-xylene	21.3		77 - 126	107%	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
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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:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165647BS	SDG No.:	P5277
Lab Sample ID:	PB165647BS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	100 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093383.D	1	12/16/24 08:51	12/16/24 13:45	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	16.8		0.14	1.70	ug/kg
60-57-1	Dieldrin	17.7		0.15	1.70	ug/kg
72-55-9	4,4-DDE	17.3		0.13	1.70	ug/kg
72-54-8	4,4-DDD	17.3		0.19	1.70	ug/kg
50-29-3	4,4-DDT	17.6		0.17	1.70	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	23.4		10 - 148	117%	SPK: 20
877-09-8	Tetrachloro-m-xylene	19.3		10 - 159	97%	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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2AMS	SDG No.:	P5277
Lab Sample ID:	P5277-02MS	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093387.D	1	12/16/24 08:51	12/16/24 14:40	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	21.0		0.18	2.10	ug/kg
60-57-1	Dieldrin	22.1		0.19	2.10	ug/kg
72-55-9	4,4-DDE	22.0		0.16	2.10	ug/kg
72-54-8	4,4-DDD	21.9		0.24	2.10	ug/kg
50-29-3	4,4-DDT	22.3		0.22	2.10	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	18.6		10 - 148	93%	SPK: 20
877-09-8	Tetrachloro-m-xylene	17.7		10 - 159	89%	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

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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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2AMSD	SDG No.:	P5277
Lab Sample ID:	P5277-02MSD	Matrix:	SOIL
Analytical Method:	SW8081	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.02 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PESTICIDE Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PL093388.D	1	12/16/24 08:51	12/16/24 14:53	PB165647

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
309-00-2	Aldrin	22.0		0.18	2.20	ug/kg
60-57-1	Dieldrin	23.1		0.19	2.20	ug/kg
72-55-9	4,4-DDE	22.9		0.16	2.20	ug/kg
72-54-8	4,4-DDD	22.7		0.24	2.20	ug/kg
50-29-3	4,4-DDT	22.8		0.22	2.20	ug/kg
SURROGATES						
2051-24-3	Decachlorobiphenyl	19.1		10 - 148	95%	SPK: 20
877-09-8	Tetrachloro-m-xylene	18.3		10 - 159	92%	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
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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

CALIBRATION SUMMARY

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L **Calibration Date(s):** 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL093233.D RT 075 = PL093234.D

RT 050 = PL093235.D RT 025 = PL093236.D RT 005 = PL093237.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	6.71	6.71	6.71	6.71	6.71	6.71	6.61	6.81
4,4'-DDE	6.19	6.19	6.19	6.19	6.19	6.19	6.09	6.29
4,4'-DDT	7.02	7.02	7.02	7.02	7.02	7.02	6.92	7.12
Aldrin	5.25	5.26	5.26	5.25	5.26	5.25	5.15	5.35
Decachlorobiphenyl	9.05	9.05	9.05	9.05	9.05	9.05	8.95	9.15
Dieldrin	6.34	6.34	6.34	6.34	6.34	6.34	6.24	6.44
Tetrachloro-m-xylene	3.54	3.54	3.54	3.54	3.54	3.54	3.44	3.64

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L **Calibration Date(s):** 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 100 = PL093233.D RT 075 = PL093234.D

RT 050 = PL093235.D RT 025 = PL093236.D RT 005 = PL093237.D

COMPOUND	RT 100	RT 075	RT 050	RT 025	RT 005	MEAN RT	RT WINDOW FROM	RT WINDOW TO
4,4'-DDD	5.79	5.78	5.79	5.78	5.79	5.78	5.68	5.88
4,4'-DDE	5.23	5.23	5.23	5.23	5.23	5.23	5.13	5.33
4,4'-DDT	6.04	6.04	6.04	6.04	6.04	6.03	5.93	6.13
Aldrin	4.23	4.22	4.23	4.22	4.22	4.22	4.12	4.32
Decachlorobiphenyl	7.91	7.91	7.91	7.91	7.91	7.91	7.81	8.01
Dieldrin	5.36	5.36	5.36	5.36	5.36	5.36	5.26	5.46
Tetrachloro-m-xylene	2.77	2.77	2.77	2.77	2.77	2.77	2.67	2.87

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L

Calibration Date(s): 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL093233.D **CF 075 =** PL093234.D

CF 050 = PL093235.D **CF 025 =** PL093236.D **CF 005 =** PL093237.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	1733160000	1808650000	1850720000	1925860000	1843070000	1832290000	4
4,4'-DDE	2221210000	2350500000	2360510000	2470590000	2293780000	2339320000	4
4,4'-DDT	1832790000	1947390000	1967960000	2054550000	1836470000	1927830000	5
Aldrin	2864930000	2979570000	3025940000	3161520000	3003890000	3007170000	4
Decachlorobiphenyl	1636890000	1805930000	1768720000	1908190000	1572960000	1738540000	8
Dieldrin	2424230000	2526570000	2583130000	2696740000	2585100000	2563150000	4
Tetrachloro-m-xylene	2478960000	2567570000	2623850000	2737290000	2587160000	2598970000	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_L

Calibration Date(s): 11/25/2024 11/25/2024

Calibration Times: 11:32 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 100 =** PL093233.D **CF 075 =** PL093234.D

CF 050 = PL093235.D **CF 025 =** PL093236.D **CF 005 =** PL093237.D

COMPOUND	CF 100	CF 075	CF 050	CF 025	CF 005	CF	% RSD
4,4'-DDD	2938310000	3008290000	2954750000	2869940000	2245840000	2803430000	11
4,4'-DDE	3669800000	3789570000	3752520000	3699990000	2988240000	3580020000	9
4,4'-DDT	3053250000	3213950000	3132520000	3008670000	2400480000	2961770000	11
Aldrin	4176660000	4246280000	4177830000	4064810000	3228690000	3978850000	11
Decachlorobiphenyl	2704170000	2907150000	2926840000	3026130000	2717990000	2856460000	5
Dieldrin	3827290000	3925470000	3861790000	3769600000	3043370000	3685500000	10
Tetrachloro-m-xylene	2925820000	2968760000	2977700000	3001480000	2546340000	2884020000	7

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 10:35 **Initial Calibration Time(s):** 11:32 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
Aldrin	5.27	5.26	5.16	5.36	-0.01
Dieldrin	6.35	6.34	6.24	6.44	-0.01
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 10:35 **Initial Calibration Time(s):** 11:32 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.77	2.67	2.87	-0.01
Aldrin	4.23	4.23	4.13	4.33	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093381.D **Time Analyzed:** 10:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.717	6.608	6.808	51.220	50.000	2.4
4,4'-DDE	6.199	6.090	6.290	50.020	50.000	0.0
4,4'-DDT	7.031	6.922	7.122	49.370	50.000	-1.3
Aldrin	5.266	5.155	5.355	50.780	50.000	1.6
Decachlorobiphenyl	9.061	8.954	9.154	55.720	50.000	11.4
Dieldrin	6.352	6.242	6.442	50.460	50.000	0.9
Tetrachloro-m-xylene	3.547	3.436	3.636	50.930	50.000	1.9

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093381.D **Time Analyzed:** 10:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.788	5.685	5.885	53.710	50.000	7.4
4,4'-DDE	5.233	5.130	5.330	53.120	50.000	6.2
4,4'-DDT	6.038	5.935	6.135	52.470	50.000	4.9
Aldrin	4.228	4.125	4.325	54.270	50.000	8.5
Decachlorobiphenyl	7.914	7.812	8.012	52.810	50.000	5.6
Dieldrin	5.364	5.262	5.462	55.020	50.000	10.0
Tetrachloro-m-xylene	2.776	2.674	2.874	52.640	50.000	5.3

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 16:44 **Initial Calibration Time(s):** 11:32 12:25

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	9.06	9.05	8.95	9.15	-0.01
Tetrachloro-m-xylene	3.55	3.54	3.44	3.64	-0.01
Aldrin	5.26	5.26	5.16	5.36	0.00
Dieldrin	6.35	6.34	6.24	6.44	-0.01
4,4'-DDE	6.20	6.19	6.09	6.29	-0.01
4,4'-DDD	6.72	6.71	6.61	6.81	-0.01
4,4'-DDT	7.03	7.02	6.92	7.12	-0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 11/25/2024 11/25/2024

Continuing Calib Time: 16:44 **Initial Calibration Time(s):** 11:32 12:25

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND	CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Decachlorobiphenyl	7.91	7.91	7.81	8.01	0.00
Tetrachloro-m-xylene	2.78	2.77	2.67	2.87	-0.01
Aldrin	4.23	4.23	4.13	4.33	0.00
Dieldrin	5.36	5.36	5.26	5.46	0.00
4,4'-DDE	5.23	5.23	5.13	5.33	0.00
4,4'-DDD	5.79	5.79	5.69	5.89	0.00
4,4'-DDT	6.04	6.04	5.94	6.14	0.00

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093393.D **Time Analyzed:** 16:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	6.715	6.608	6.808	54.550	50.000	9.1
4,4'-DDE	6.197	6.090	6.290	50.770	50.000	1.5
4,4'-DDT	7.028	6.922	7.122	42.130	50.000	-15.7
Aldrin	5.263	5.155	5.355	51.480	50.000	3.0
Decachlorobiphenyl	9.059	8.954	9.154	55.780	50.000	11.6
Dieldrin	6.349	6.242	6.442	51.060	50.000	2.1
Tetrachloro-m-xylene	3.545	3.436	3.636	51.960	50.000	3.9

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: PSTDCCC050 **Data File :** PL093393.D **Time Analyzed:** 16:44

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
4,4'-DDD	5.787	5.685	5.885	59.220	50.000	18.4
4,4'-DDE	5.232	5.130	5.330	54.650	50.000	9.3
4,4'-DDT	6.037	5.935	6.135	43.300	50.000	-13.4
Aldrin	4.227	4.125	4.325	55.890	50.000	11.8
Decachlorobiphenyl	7.913	7.812	8.012	55.030	50.000	10.1
Dieldrin	5.364	5.262	5.462	55.860	50.000	11.7
Tetrachloro-m-xylene	2.776	2.674	2.874	54.540	50.000	9.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093231.D **Date Analyzed:** 11/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.054	8.950	9.150	20.040	20.000	0.2
Tetrachloro-m-xylene	3.536	3.490	3.590	20.160	20.000	0.8
alpha-BHC	3.991	3.940	4.040	10.350	10.000	3.5
beta-BHC	4.522	4.470	4.570	10.650	10.000	6.5
gamma-BHC (Lindane)	4.324	4.270	4.370	10.190	10.000	1.9
Endrin	6.572	6.500	6.640	45.410	50.000	-9.2
4,4'-DDT	7.022	6.950	7.090	89.610	100.000	-10.4
Methoxychlor	7.497	7.430	7.570	212.340	250.000	-15.1

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093231.D **Date Analyzed:** 11/25/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 11:05

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.912	7.810	8.010	19.260	20.000	-3.7
Tetrachloro-m-xylene	2.774	2.720	2.820	19.400	20.000	-3.0
alpha-BHC	3.276	3.230	3.330	9.230	10.000	-7.7
beta-BHC	3.906	3.860	3.960	9.990	10.000	-0.1
gamma-BHC (Lindane)	3.607	3.560	3.660	8.790	10.000	-12.1
Endrin	5.637	5.570	5.710	46.140	50.000	-7.7
4,4'-DDT	6.036	5.970	6.110	100.270	100.000	0.3
Methoxychlor	6.610	6.540	6.680	224.790	250.000	-10.1

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PESTICIDE CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093380.D **Date Analyzed:** 12/16/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	9.052	8.950	9.150	23.190	20.000	16.0
Tetrachloro-m-xylene	3.539	3.490	3.590	21.540	20.000	7.7
alpha-BHC	3.995	3.940	4.050	11.090	10.000	10.9
beta-BHC	4.525	4.470	4.580	11.600	10.000	16.0
gamma-BHC (Lindane)	4.327	4.280	4.380	11.010	10.000	10.1
Endrin	6.572	6.500	6.640	44.650	50.000	-10.7
4,4'-DDT	7.023	6.950	7.090	91.610	100.000	-8.4
Methoxychlor	7.499	7.430	7.570	205.760	250.000	-17.7

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 11/25/2024 11/25/2024

Client Sample No. (PEM): PEM - PL093380.D **Date Analyzed:** 12/16/2024

Lab Sample No.(PEM): PEM **Time Analyzed:** 09:46

PEM COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Decachlorobiphenyl	7.910	7.810	8.010	20.640	20.000	3.2
Tetrachloro-m-xylene	2.776	2.730	2.830	20.900	20.000	4.5
alpha-BHC	3.278	3.230	3.330	10.120	10.000	1.2
beta-BHC	3.907	3.860	3.960	10.850	10.000	8.5
gamma-BHC (Lindane)	3.608	3.560	3.660	9.730	10.000	-2.7
Endrin	5.637	5.570	5.710	47.050	50.000	-5.9
4,4'-DDT	6.035	5.960	6.110	106.400	100.000	6.4
Methoxychlor	6.608	6.540	6.680	223.430	250.000	-10.6

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Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_L

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/25/2024 11/25/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	11/25/2024	10:52	PL093230.D	9.05	3.54
PEM	PEM	11/25/2024	11:05	PL093231.D	9.05	3.54
RESCHK	RESCHK	11/25/2024	11:18	PL093232.D	9.05	3.54
PSTDICC100	PSTDICC100	11/25/2024	11:32	PL093233.D	9.05	3.54
PSTDICC075	PSTDICC075	11/25/2024	11:45	PL093234.D	9.05	3.54
PSTDICC050	PSTDICC050	11/25/2024	11:58	PL093235.D	9.05	3.54
PSTDICC025	PSTDICC025	11/25/2024	12:11	PL093236.D	9.05	3.54
PSTDICC005	PSTDICC005	11/25/2024	12:25	PL093237.D	9.05	3.54
PCHLORICC500	PCHLORICC500	11/25/2024	13:04	PL093240.D	9.05	3.54
PTOXICC500	PTOXICC500	11/25/2024	14:11	PL093245.D	9.05	3.54
I.BLK	I.BLK	12/16/2024	09:32	PL093379.D	9.05	3.54
PEM	PEM	12/16/2024	09:46	PL093380.D	9.05	3.54
PSTDCCC050	PSTDCCC050	12/16/2024	10:35	PL093381.D	9.06	3.55
PB165647BL	PB165647BL	12/16/2024	13:32	PL093382.D	9.06	3.55
PB165647BS	PB165647BS	12/16/2024	13:45	PL093383.D	9.05	3.54
COMP-1A	P5277-01	12/16/2024	14:13	PL093385.D	9.05	3.54
COMP-2A	P5277-02	12/16/2024	14:26	PL093386.D	9.05	3.54
COMP-2AMS	P5277-02MS	12/16/2024	14:40	PL093387.D	9.05	3.54
COMP-2AMSD	P5277-02MSD	12/16/2024	14:53	PL093388.D	9.05	3.54
COMP-3A	P5277-03	12/16/2024	15:07	PL093389.D	9.05	3.54
I.BLK	I.BLK	12/16/2024	15:47	PL093392.D	9.05	3.54
PSTDCCC050	PSTDCCC050	12/16/2024	16:44	PL093393.D	9.06	3.55

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Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_L

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 11/25/2024 11/25/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	11/25/2024	10:52	PL093230.D	7.91	2.77
PEM	PEM	11/25/2024	11:05	PL093231.D	7.91	2.77
RESCHK	RESCHK	11/25/2024	11:18	PL093232.D	7.91	2.77
PSTDICC100	PSTDICC100	11/25/2024	11:32	PL093233.D	7.91	2.77
PSTDICC075	PSTDICC075	11/25/2024	11:45	PL093234.D	7.91	2.77
PSTDICC050	PSTDICC050	11/25/2024	11:58	PL093235.D	7.91	2.77
PSTDICC025	PSTDICC025	11/25/2024	12:11	PL093236.D	7.91	2.77
PSTDICC005	PSTDICC005	11/25/2024	12:25	PL093237.D	7.91	2.77
PCHLORICC500	PCHLORICC500	11/25/2024	13:04	PL093240.D	7.91	2.77
PTOXICC500	PTOXICC500	11/25/2024	14:11	PL093245.D	7.91	2.77
I.BLK	I.BLK	12/16/2024	09:32	PL093379.D	7.91	2.78
PEM	PEM	12/16/2024	09:46	PL093380.D	7.91	2.78
PSTDCCC050	PSTDCCC050	12/16/2024	10:35	PL093381.D	7.91	2.78
PB165647BL	PB165647BL	12/16/2024	13:32	PL093382.D	7.91	2.78
PB165647BS	PB165647BS	12/16/2024	13:45	PL093383.D	7.91	2.78
COMP-1A	P5277-01	12/16/2024	14:13	PL093385.D	7.91	2.78
COMP-2A	P5277-02	12/16/2024	14:26	PL093386.D	7.91	2.78
COMP-2AMS	P5277-02MS	12/16/2024	14:40	PL093387.D	7.91	2.78
COMP-2AMSD	P5277-02MSD	12/16/2024	14:53	PL093388.D	7.91	2.78
COMP-3A	P5277-03	12/16/2024	15:07	PL093389.D	7.91	2.78
I.BLK	I.BLK	12/16/2024	15:47	PL093392.D	7.91	2.78
PSTDCCC050	PSTDCCC050	12/16/2024	16:44	PL093393.D	7.91	2.78

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
COMP-2AMS

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-02MS **Date(s) Analyzed:** 12/16/2024 12/16/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	21.0	4.2
	2	5.79	5.74	5.84	21.9	
4,4'-DDE	1	6.19	6.14	6.24	20.7	6.1
	2	5.23	5.18	5.28	22.0	
4,4'-DDT	1	7.02	6.97	7.07	20.6	7.9
	2	6.04	5.99	6.09	22.3	
Aldrin	1	5.26	5.21	5.31	19.7	6.4
	2	4.23	4.18	4.28	21.0	
Dieldrin	1	6.34	6.29	6.39	20.5	7.5
	2	5.36	5.31	5.41	22.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.
COMP-2AMSD

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-02MSD **Date(s) Analyzed:** 12/16/2024 12/16/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	21.8	4
	2	5.79	5.74	5.84	22.7	
4,4'-DDT	1	7.02	6.97	7.07	21.7	4.9
	2	6.04	5.99	6.09	22.8	
Aldrin	1	5.26	5.21	5.31	20.3	8
	2	4.23	4.18	4.28	22.0	
4,4'-DDE	1	6.19	6.14	6.24	21.3	7.2
	2	5.23	5.18	5.28	22.9	
Dieldrin	1	6.34	6.29	6.39	21.2	8.6
	2	5.36	5.31	5.41	23.1	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

COMP-3A

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: P5277-03 **Date(s) Analyzed:** 12/16/2024 12/16/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDT	1	7.02	6.97	7.07	0.24	21
	2	6.03	5.98	6.08	0.29	
4,4'-DDE	1	6.19	6.14	6.24	0.31	18.4
	2	5.23	5.18	5.28	0.26	

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COMPOUND DETECTION SUMMARY

CLIENT SAMPLE NO.

PB165647BS

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Lab Sample ID: PB165647BS **Date(s) Analyzed:** 12/16/2024 12/16/2024

Instrument ID (1): ECD_L **Instrument ID (2):** ECD_L

GC Column: (1): ZB-MR1 **ID:** 0.32 (mm) **GC Column:(2):** ZB-MR2 **ID:** 0.32 (mm)

ANALYTE	COL	RT	RT WINDOW FROM	RT WINDOW TO	CONCENTRATION	%RPD
4,4'-DDD	1	6.71	6.66	6.76	16.9	2.3
	2	5.79	5.74	5.84	17.3	
4,4'-DDT	1	7.02	6.97	7.07	17.2	2.3
	2	6.04	5.99	6.09	17.6	
Aldrin	1	5.26	5.21	5.31	15.6	7.4
	2	4.23	4.18	4.28	16.8	
4,4'-DDE	1	6.19	6.14	6.24	16.5	4.7
	2	5.23	5.18	5.28	17.3	
Dieldrin	1	6.34	6.29	6.39	16.5	7
	2	5.36	5.31	5.41	17.7	

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			PCB Group1	8082A		12/16/24	12/16/24	
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			PCB Group1	8082A		12/16/24	12/16/24	
			PESTICIDE Group1	8081B		12/16/24	12/16/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			PCB Group1	8082A		12/16/24	12/16/24	
			PESTICIDE Group1	8081B		12/16/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277 **Order ID:** P5277

Client: Kleinfelder **Project ID:** Tanner G. Duckrey Public School

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

SAMPLE DATA

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	88.5 Decanted:
Sample Wt/Vol:	30.06 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108550.D	1	12/16/24 08:50	12/16/24 14:41	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	19.2	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.2	ug/kg
11096-82-5	Aroclor-1260	3.30	U	3.30	19.2	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.9		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.2		32 - 175	86%	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

Alliance TECHNICAL GROUP
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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	78.9 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108551.D	1	12/16/24 08:50	12/16/24 14:59	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	4.30	U	4.30	21.5	ug/kg
11097-69-1	Aroclor-1254	3.50	U	3.50	21.5	ug/kg
11096-82-5	Aroclor-1260	3.70	U	3.70	21.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.2		32 - 144	106%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.6		32 - 175	88%	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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	89.9 Decanted:
Sample Wt/Vol:	30.05 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108552.D	1	12/16/24 08:50	12/16/24 15:18	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.80	U	3.80	18.9	ug/kg
11097-69-1	Aroclor-1254	3.00	U	3.00	18.9	ug/kg
11096-82-5	Aroclor-1260	3.20	U	3.20	18.9	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.8		32 - 144	109%	SPK: 20
2051-24-3	Decachlorobiphenyl	21.2		32 - 175	106%	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

QC SUMMARY

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Surrogate Summary

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8082A

Lab Sample ID	Client ID	Parameter	Column	Spike	Result	Rec	Qual	Limits Low	Limits High
I.BLK-PO108361.D	PIBLK-PO108361.D	Tetrachloro-m-xylene	1	20	23.0	115		60	140
		Decachlorobiphenyl	1	20	23.6	118		60	140
		Tetrachloro-m-xylene	2	20	21.6	108		60	140
		Decachlorobiphenyl	2	20	23.6	118		60	140
I.BLK-PO108544.D	PIBLK-PO108544.D	Tetrachloro-m-xylene	1	20	18.8	94		60	140
		Decachlorobiphenyl	1	20	18.7	94		60	140
		Tetrachloro-m-xylene	2	20	19.1	95		60	140
		Decachlorobiphenyl	2	20	21.4	107		60	140
PB165646BL	PB165646BL	Tetrachloro-m-xylene	1	20	20.6	103		32	144
		Decachlorobiphenyl	1	20	20.8	104		32	175
		Tetrachloro-m-xylene	2	20	19.9	100		32	144
		Decachlorobiphenyl	2	20	23.4	117		32	175
PB165646BS	PB165646BS	Tetrachloro-m-xylene	1	20	19.7	99		32	144
		Decachlorobiphenyl	1	20	21.2	106		32	175
		Tetrachloro-m-xylene	2	20	19.3	96		32	144
		Decachlorobiphenyl	2	20	23.7	119		32	175
P5268-01MS	OR-02-12122024MS	Tetrachloro-m-xylene	1	20	20.3	101		32	144
		Decachlorobiphenyl	1	20	15.8	79		32	175
		Tetrachloro-m-xylene	2	20	20.5	102		32	144
		Decachlorobiphenyl	2	20	19.8	99		32	175
P5268-01MSD	OR-02-12122024MSD	Tetrachloro-m-xylene	1	20	19.8	99		32	144
		Decachlorobiphenyl	1	20	16.2	81		32	175
		Tetrachloro-m-xylene	2	20	20.5	103		32	144
		Decachlorobiphenyl	2	20	19.3	97		32	175
P5277-01	COMP-1A	Tetrachloro-m-xylene	1	20	18.9	95		32	144
		Decachlorobiphenyl	1	20	14.6	73		32	175
		Tetrachloro-m-xylene	2	20	19.9	99		32	144
		Decachlorobiphenyl	2	20	17.2	86		32	175
P5277-02	COMP-2A	Tetrachloro-m-xylene	1	20	19.7	99		32	144
		Decachlorobiphenyl	1	20	14.5	73		32	175
		Tetrachloro-m-xylene	2	20	21.2	106		32	144
		Decachlorobiphenyl	2	20	17.6	88		32	175
P5277-03	COMP-3A	Tetrachloro-m-xylene	1	20	20.4	102		32	144
		Decachlorobiphenyl	1	20	17.6	88		32	175
		Tetrachloro-m-xylene	2	20	21.8	109		32	144
		Decachlorobiphenyl	2	20	21.2	106		32	175
I.BLK-PO108559.D	PIBLK-PO108559.D	Tetrachloro-m-xylene	1	20	17.6	88		60	140
		Decachlorobiphenyl	1	20	17.3	86		60	140
		Tetrachloro-m-xylene	2	20	18.9	94		60	140
		Decachlorobiphenyl	2	20	21.0	105		60	140

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8082A **DataFile :** PO108548.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**OR-02-12122024MS**											
P5268-01MS	AR1016	190.6	0	195	ug/kg	102				55	146	
	AR1260	190.6	0	191	ug/kg	100				45	144	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8082A **DataFile :** PO108549.D

Lab Sample ID:	Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	Limits RPD
Client Sample ID:	**OR-02-12122024MSD**											
P5268-01MSD	AR1016	190.7	0	190	ug/kg	100		2		55	146	20
	AR1260	190.7	0	186	ug/kg	98		2		45	144	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P5277

Client: Kleinfelder

Analytical Method: 8082A **Datafile :** PO108546.D

Lab Sample ID	Parameter	Spike	Result	Units	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB165646BS	AR1016	166.5	162	ug/kg	97				71	120	
	AR1260	166.5	168	ug/kg	101				65	130	

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4C

PESTICIDE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB165646BL

Lab Name: CHEMTECH Contract: POWE02

Lab Code: CHEM Case No.: P5277 SAS No.: P5277 SDG NO.: P5277

Lab Sample ID: PB165646BL Lab File ID: PO108545.D

Matrix: (soil/water) Solid Extraction: (Type)

Sulfur Cleanup: (Y/N) N Date Extracted: 12/16/2024

Date Analyzed (1): 12/16/2024 Date Analyzed (2): 12/16/2024

Time Analyzed (1): 13:09 Time Analyzed (2): 13:09

Instrument ID (1): ECD_O Instrument ID (2): ECD_O

GC Column (1): ZB-MR1 ID: 0.32 (mm) GC Column (2): ZB-MR2 ID: 0.32 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED 1	DATE ANALYZED 2
PB165646BS	PB165646BS	PO108546.D	12/16/2024	12/16/2024
OR-02-12122024MS	P5268-01MS	PO108548.D	12/16/2024	12/16/2024
OR-02-12122024MSD	P5268-01MSD	PO108549.D	12/16/2024	12/16/2024
COMP-1A	P5277-01	PO108550.D	12/16/2024	12/16/2024
COMP-2A	P5277-02	PO108551.D	12/16/2024	12/16/2024
COMP-3A	P5277-03	PO108552.D	12/16/2024	12/16/2024

COMMENTS:

CALIBRATION SUMMARY

Alliance TECHNICAL GROUP

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR1 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO108362.D RT 750 = PO108363.D
RT 500 = PO108364.D RT 250 = PO108365.D RT 050 = PO108366.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016-1	(1)	4.81	4.81	4.81	4.81	4.81	4.81	4.71	4.91
Aroclor-1016-2	(2)	4.83	4.83	4.83	4.83	4.83	4.83	4.73	4.93
Aroclor-1016-3	(3)	4.89	4.89	4.89	4.89	4.89	4.89	4.79	4.99
Aroclor-1016-4	(4)	5.01	5.01	5.01	5.01	5.01	5.01	4.91	5.11
Aroclor-1016-5	(5)	5.27	5.27	5.27	5.27	5.27	5.27	5.17	5.37
Aroclor-1260-1	(1)	6.31	6.31	6.31	6.31	6.31	6.31	6.21	6.41
Aroclor-1260-2	(2)	6.50	6.50	6.50	6.50	6.50	6.50	6.40	6.60
Aroclor-1260-3	(3)	6.87	6.87	6.87	6.87	6.87	6.87	6.77	6.97
Aroclor-1260-4	(4)	7.13	7.13	7.13	7.13	7.13	7.13	7.03	7.23
Aroclor-1260-5	(5)	7.37	7.37	7.37	7.37	7.37	7.37	7.27	7.47
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1254-1	(1)	5.62	5.62	5.62	5.62	5.62	5.62	5.52	5.72
Aroclor-1254-2	(2)	5.77	5.77	5.77	5.77	5.77	5.77	5.67	5.87
Aroclor-1254-3	(3)	6.18	6.17	6.17	6.17	6.17	6.17	6.07	6.27
Aroclor-1254-4	(4)	6.40	6.40	6.40	6.40	6.40	6.40	6.30	6.50
Aroclor-1254-5	(5)	6.83	6.83	6.83	6.83	6.83	6.83	6.73	6.93
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.79	8.79	8.79	8.79	8.79	8.79	8.69	8.89
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

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RETENTION TIMES OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR2 ID: 0.32 (mm)

LAB FILE ID: RT 1000 = PO108362.D RT 750 = PO108363.D
RT 500 = PO108364.D RT 250 = PO108365.D RT 050 = PO108366.D

COMPOUND		RT 1000	RT 750	RT 500	RT 250	RT 050	MEAN RT	RT WINDOW FROM	TO
Aroclor-1016-1	(1)	4.80	4.80	4.80	4.80	4.80	4.80	4.70	4.90
Aroclor-1016-2	(2)	4.82	4.82	4.82	4.82	4.82	4.82	4.72	4.92
Aroclor-1016-3	(3)	4.99	4.99	4.99	4.99	4.99	4.99	4.89	5.09
Aroclor-1016-4	(4)	5.04	5.04	5.04	5.04	5.04	5.04	4.94	5.14
Aroclor-1016-5	(5)	5.25	5.25	5.25	5.25	5.25	5.25	5.15	5.35
Aroclor-1260-1	(1)	6.29	6.29	6.29	6.29	6.29	6.29	6.19	6.39
Aroclor-1260-2	(2)	6.47	6.47	6.47	6.47	6.47	6.47	6.37	6.57
Aroclor-1260-3	(3)	6.63	6.63	6.63	6.63	6.63	6.63	6.53	6.73
Aroclor-1260-4	(4)	7.10	7.10	7.10	7.10	7.10	7.10	7.00	7.20
Aroclor-1260-5	(5)	7.34	7.34	7.34	7.34	7.34	7.34	7.24	7.44
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Aroclor-1254-1	(1)	5.60	5.60	5.60	5.60	5.60	5.60	5.50	5.70
Aroclor-1254-2	(2)	5.75	5.75	5.75	5.75	5.75	5.75	5.65	5.85
Aroclor-1254-3	(3)	6.15	6.15	6.15	6.15	6.15	6.15	6.05	6.25
Aroclor-1254-4	(4)	6.38	6.38	6.38	6.38	6.38	6.38	6.28	6.48
Aroclor-1254-5	(5)	6.80	6.80	6.80	6.80	6.80	6.80	6.70	6.90
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81
Decachlorobiphenyl		8.74	8.74	8.74	8.74	8.74	8.74	8.64	8.84
Tetrachloro-m-xylene		3.71	3.71	3.71	3.71	3.71	3.71	3.61	3.81

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO108362.D **CF 750 =** PO108363.D

CF 500 = PO108364.D **CF 250 =** PO108365.D **CF 050 =** PO108366.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	291946997	297743768	310620664	319628964	322276700	308443419	4
Aroclor-1016-2	(2)	404548343	410201719	419086158	434302728	418957120	417419214	3
Aroclor-1016-3	(3)	276313882	283350735	295214768	305005424	303271420	292631246	4
Aroclor-1016-4	(4)	219460370	224028880	231955104	239248200	241192240	231176959	4
Aroclor-1016-5	(5)	230837381	238568924	249276722	260302648	279364560	251670047	8
Aroclor-1260-1	(1)	430087746	435401064	458150304	486996644	475087940	457144740	5
Aroclor-1260-2	(2)	526959551	526383048	555764632	590931960	578558580	555719554	5
Aroclor-1260-3	(3)	436965341	443883275	464184392	487588856	485769460	463678265	5
Aroclor-1260-4	(4)	403312630	406530869	426472890	444299896	446086500	425340557	5
Aroclor-1260-5	(5)	957132439	955503789	984649950	1000570432	961557080	971882738	2
Decachlorobiphenyl		7019975940	7102279760	7343195240	7645101200	7409935200	7304097468	3
Tetrachloro-m-xylene		8754554380	8783699800	8926447760	8858353120	8177601800	8700131372	3
Decachlorobiphenyl		7151632520	7167100640	7259242160	7695082840	7616154000	7377842432	4
Tetrachloro-m-xylene		8921368150	8691850413	8750108140	8842570400	8500038400	8741187101	2
Decachlorobiphenyl		7041971050	7340001867	7677772660	8334328560	8377267200	7754268267	8
Tetrachloro-m-xylene		8742483090	9116744787	9342439560	9446963040	8577776400	9045281375	4
Aroclor-1254-1	(1)	463230517	487037587	512031514	533861324	572040640	513640316	8
Aroclor-1254-2	(2)	407035308	429134731	452892530	476390932	511836900	455458080	9
Aroclor-1254-3	(3)	665923649	695083201	726473802	743208540	769953480	720128534	6
Aroclor-1254-4	(4)	404280854	421077525	444268156	458648100	465789400	438812807	6
Aroclor-1254-5	(5)	578915300	604639081	636092894	662542188	693421140	635122121	7
Decachlorobiphenyl		7146512650	7451889427	7845842200	8029803560	8289288000	7752667167	6
Tetrachloro-m-xylene		8916956510	9205112240	9483653100	9313097600	8995829000	9182929690	3
Decachlorobiphenyl		13116054520	12684928373	12985206200	13660251040	13550255000	13199339027	3
Tetrachloro-m-xylene		9439924600	8926085107	9366220020	9585299080	8679584000	9199422561	4

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CALIBRATION FACTOR OF INITIAL CALIBRATION

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Instrument ID: ECD_O **Calibration Date(s):** 12/06/2024 12/06/2024

Calibration Times: 14:19 22:34

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

LAB FILE ID: **CF 1000 =** PO108362.D **CF 750 =** PO108363.D

CF 500 = PO108364.D **CF 250 =** PO108365.D **CF 050 =** PO108366.D

COMPOUND		CF 1000	CF 750	CF 500	CF 250	CF 050	CF	% RSD
Aroclor-1016-1	(1)	153895169	156728372	161981056	169073964	160692820	160474276	4
Aroclor-1016-2	(2)	216342839	218481491	224728354	232664856	218246400	222092788	3
Aroclor-1016-3	(3)	120117826	122069885	126984464	131660600	128335340	125833623	4
Aroclor-1016-4	(4)	96843518	100727947	106065160	112123848	108269060	104805907	6
Aroclor-1016-5	(5)	124135109	128707045	133919966	139473364	149819760	135211049	7
Aroclor-1260-1	(1)	220557751	224688929	233372252	247245708	244312440	234035416	5
Aroclor-1260-2	(2)	265498816	268435476	278836448	291165028	298902840	280567722	5
Aroclor-1260-3	(3)	247895049	250737920	258985508	271036448	289186460	263568277	6
Aroclor-1260-4	(4)	206205103	207830825	214807128	221847076	213061100	212750246	3
Aroclor-1260-5	(5)	485216265	483370987	491130416	498849136	461100640	483933489	3
Decachlorobiphenyl		3766442770	3798929547	3925647180	4081005080	3802565400	3874917995	3
Tetrachloro-m-xylene		5125815400	5157614040	5227779180	5235220160	4600485000	5069382756	5
Decachlorobiphenyl		3837824030	3881889067	3932164520	4142632320	3981873600	3955276707	3
Tetrachloro-m-xylene		5175637870	5056121747	5062590080	5077379040	4694060200	5013157787	4
Decachlorobiphenyl		3812249930	3973614533	4145380680	4445118560	4295672800	4134407301	6
Tetrachloro-m-xylene		4965646150	5143987440	5236574340	5255843080	4633325600	5047075322	5
Aroclor-1254-1	(1)	245816740	256457156	269229946	279215328	303441080	270832050	8
Aroclor-1254-2	(2)	215464605	225390397	238770420	248817564	271658880	240020373	9
Aroclor-1254-3	(3)	351887512	364509791	380441060	386791796	393925500	375511132	5
Aroclor-1254-4	(4)	202983022	209924784	220508360	226093392	228876240	217677160	5
Aroclor-1254-5	(5)	301571990	312619885	327015726	332817532	339773740	322759775	5
Decachlorobiphenyl		3941299730	4071714027	4258931580	4374402200	4331619600	4195593427	4
Tetrachloro-m-xylene		5092418740	5228867107	5367266300	5227916200	4998387200	5182971109	3
Decachlorobiphenyl		7216327300	6964723040	7142803680	7406390760	7194775600	7185004076	2
Tetrachloro-m-xylene		5353757740	5060175947	5259788400	5326606440	4764065600	5152878825	5

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 09:35 **Initial Calibration Time(s):** 14:19 22:34

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 09:35 **Initial Calibration Time(s):** 14:19 22:34

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.98	4.99	4.89	5.09	0.01
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.27	6.29	6.19	6.39	0.02
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.02
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.72	8.74	8.64	8.84	0.02

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108540.D **Time Analyzed:** 09:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.802	4.709	4.909	470.220	500.000	-6.0
Aroclor-1016-2	4.823	4.729	4.929	471.680	500.000	-5.7
Aroclor-1016-3	4.878	4.785	4.985	468.530	500.000	-6.3
Aroclor-1016-4	5.000	4.907	5.107	477.440	500.000	-4.5
Aroclor-1016-5	5.257	5.165	5.365	473.620	500.000	-5.3
Aroclor-1260-1	6.301	6.210	6.410	432.940	500.000	-13.4
Aroclor-1260-2	6.490	6.398	6.598	446.600	500.000	-10.7
Aroclor-1260-3	6.859	6.769	6.969	434.560	500.000	-13.1
Aroclor-1260-4	7.120	7.029	7.229	424.670	500.000	-15.1
Aroclor-1260-5	7.360	7.270	7.470	436.990	500.000	-12.6
Decachlorobiphenyl	8.775	8.691	8.891	42.560	50.000	-14.9
Tetrachloro-m-xylene	3.706	3.610	3.810	50.520	50.000	1.0

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL01 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108540.D **Time Analyzed:** 09:35

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.789	4.698	4.898	500.620	500.000	0.1
Aroclor-1016-2	4.808	4.718	4.918	503.680	500.000	0.7
Aroclor-1016-3	4.984	4.894	5.094	493.000	500.000	-1.4
Aroclor-1016-4	5.025	4.935	5.135	496.360	500.000	-0.7
Aroclor-1016-5	5.239	5.150	5.350	493.480	500.000	-1.3
Aroclor-1260-1	6.273	6.186	6.386	480.580	500.000	-3.9
Aroclor-1260-2	6.460	6.373	6.573	483.310	500.000	-3.3
Aroclor-1260-3	6.615	6.527	6.727	472.940	500.000	-5.4
Aroclor-1260-4	7.087	7.000	7.200	486.560	500.000	-2.7
Aroclor-1260-5	7.326	7.239	7.439	497.490	500.000	-0.5
Decachlorobiphenyl	8.723	8.641	8.841	48.130	50.000	-3.7
Tetrachloro-m-xylene	3.702	3.608	3.808	51.300	50.000	2.6

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 16:27 **Initial Calibration Time(s):** 14:19 22:34

GC Column: ZB-MR1 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.80	4.81	4.71	4.91	0.01
Aroclor-1016-2	(2)	4.82	4.83	4.73	4.93	0.01
Aroclor-1016-3	(3)	4.88	4.89	4.79	4.99	0.01
Aroclor-1016-4	(4)	5.00	5.01	4.91	5.11	0.01
Aroclor-1016-5	(5)	5.26	5.27	5.17	5.37	0.01
Aroclor-1260-1	(1)	6.30	6.31	6.21	6.41	0.01
Aroclor-1260-2	(2)	6.49	6.50	6.40	6.60	0.01
Aroclor-1260-3	(3)	6.86	6.87	6.77	6.97	0.01
Aroclor-1260-4	(4)	7.12	7.13	7.03	7.23	0.01
Aroclor-1260-5	(5)	7.36	7.37	7.27	7.47	0.01
Tetrachloro-m-xylene		3.71	3.71	3.61	3.81	0.00
Decachlorobiphenyl		8.78	8.79	8.69	8.89	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

Continuing Calib Date: 12/16/2024 **Initial Calibration Date(s):** 12/06/2024 12/06/2024

Continuing Calib Time: 16:27 **Initial Calibration Time(s):** 14:19 22:34

GC Column: ZB-MR2 **ID:** 0.32 **(mm)**

COMPOUND		CCAL RT	AVG RT	RT WINDOW FROM	RT WINDOW TO	DIFF RT
Aroclor-1016-1	(1)	4.79	4.80	4.70	4.90	0.01
Aroclor-1016-2	(2)	4.81	4.82	4.72	4.92	0.01
Aroclor-1016-3	(3)	4.99	4.99	4.89	5.09	0.00
Aroclor-1016-4	(4)	5.03	5.04	4.94	5.14	0.01
Aroclor-1016-5	(5)	5.24	5.25	5.15	5.35	0.01
Aroclor-1260-1	(1)	6.28	6.29	6.19	6.39	0.01
Aroclor-1260-2	(2)	6.46	6.47	6.37	6.57	0.01
Aroclor-1260-3	(3)	6.62	6.63	6.53	6.73	0.01
Aroclor-1260-4	(4)	7.09	7.10	7.00	7.20	0.01
Aroclor-1260-5	(5)	7.33	7.34	7.24	7.44	0.01
Tetrachloro-m-xylene		3.70	3.71	3.61	3.81	0.01
Decachlorobiphenyl		8.73	8.74	8.64	8.84	0.01

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR1 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108555.D **Time Analyzed:** 16:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.804	4.709	4.909	456.760	500.000	-8.6
Aroclor-1016-2	4.824	4.729	4.929	463.380	500.000	-7.3
Aroclor-1016-3	4.880	4.785	4.985	461.510	500.000	-7.7
Aroclor-1016-4	5.001	4.907	5.107	460.680	500.000	-7.9
Aroclor-1016-5	5.258	5.165	5.365	455.330	500.000	-8.9
Aroclor-1260-1	6.301	6.210	6.410	439.970	500.000	-12.0
Aroclor-1260-2	6.490	6.398	6.598	445.440	500.000	-10.9
Aroclor-1260-3	6.859	6.769	6.969	439.030	500.000	-12.2
Aroclor-1260-4	7.120	7.029	7.229	424.930	500.000	-15.0
Aroclor-1260-5	7.360	7.270	7.470	426.740	500.000	-14.7
Decachlorobiphenyl	8.776	8.691	8.891	41.110	50.000	-17.8
Tetrachloro-m-xylene	3.707	3.610	3.810	46.360	50.000	-7.3

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CALIBRATION VERIFICATION SUMMARY

Contract: POWE02

Lab Code: CHEM **Case No.:** P5277 **SAS No.:** P5277 **SDG NO.:** P5277

GC Column: ZB-MR2 **ID:** 0.32 **(mm)** **Initi. Calib. Date(s):** 12/06/2024 12/06/2024

Client Sample No.: CCAL02 **Date Analyzed:** 12/16/2024

Lab Sample No.: AR1660CCC500 **Data File :** PO108555.D **Time Analyzed:** 16:27

COMPOUND	RT	RT WINDOW FROM	RT WINDOW TO	CALC AMOUNT(ng)	NOM AMOUNT(ng)	%D
Aroclor-1016-1	4.791	4.698	4.898	522.450	500.000	4.5
Aroclor-1016-2	4.811	4.718	4.918	521.590	500.000	4.3
Aroclor-1016-3	4.987	4.894	5.094	513.030	500.000	2.6
Aroclor-1016-4	5.028	4.935	5.135	512.530	500.000	2.5
Aroclor-1016-5	5.242	5.150	5.350	517.620	500.000	3.5
Aroclor-1260-1	6.276	6.186	6.386	510.870	500.000	2.2
Aroclor-1260-2	6.463	6.373	6.573	513.750	500.000	2.8
Aroclor-1260-3	6.617	6.527	6.727	507.620	500.000	1.5
Aroclor-1260-4	7.089	7.000	7.200	516.260	500.000	3.3
Aroclor-1260-5	7.328	7.239	7.439	522.020	500.000	4.4
Decachlorobiphenyl	8.725	8.641	8.841	49.500	50.000	-1.0
Tetrachloro-m-xylene	3.704	3.608	3.808	51.760	50.000	3.5

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Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_O

GC Column: ZB-MR1 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/06/2024 12/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/06/2024	14:01	PO108361.D	8.79	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.79	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.79	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.79	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.79	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.79	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.79	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.79	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.79	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.79	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.79	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.79	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.79	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.79	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.79	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.79	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.79	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.79	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.79	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.79	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.79	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.79	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.79	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.79	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.79	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.79	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.79	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.79	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.79	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	09:35	PO108540.D	8.78	3.71
I.BLK	I.BLK	12/16/2024	11:23	PO108544.D	8.77	3.71
PB165646BL	PB165646BL	12/16/2024	13:09	PO108545.D	8.78	3.71
PB165646BS	PB165646BS	12/16/2024	13:28	PO108546.D	8.77	3.71
OR-02-12122024MS	P5268-01MS	12/16/2024	14:04	PO108548.D	8.78	3.71
OR-02-12122024MSD	P5268-01MSD	12/16/2024	14:23	PO108549.D	8.77	3.71
COMP-1A	P5277-01	12/16/2024	14:41	PO108550.D	8.78	3.71
COMP-2A	P5277-02	12/16/2024	14:59	PO108551.D	8.78	3.71
COMP-3A	P5277-03	12/16/2024	15:18	PO108552.D	8.78	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	16:27	PO108555.D	8.78	3.71
I.BLK	I.BLK	12/16/2024	17:40	PO108559.D	8.78	3.71

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Analytical Sequence

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Instrument ID:** ECD_O

GC Column: ZB-MR2 **ID:** 0.32 (mm) **Inst. Calib. Date(s):** 12/06/2024 12/06/2024

THE ANALYTICAL SEQUENCE OF PERFORMANCE EVALUATION MIXTURES, BLANKS, SAMPLES, AND STANDARDS IS GIVEN BELOW:

EPA SAMPLE NO.	LAB SAMPLE ID	DATE ANALYZED	TIME ANALYZED	DATAFILE	DCB RT #	TCX RT #
I.BLK	I.BLK	12/06/2024	14:01	PO108361.D	8.74	3.71
AR1660ICC1000	AR1660ICC1000	12/06/2024	14:19	PO108362.D	8.74	3.71
AR1660ICC750	AR1660ICC750	12/06/2024	14:38	PO108363.D	8.74	3.71
AR1660ICC500	AR1660ICC500	12/06/2024	14:56	PO108364.D	8.74	3.71
AR1660ICC250	AR1660ICC250	12/06/2024	15:14	PO108365.D	8.74	3.71
AR1660ICC050	AR1660ICC050	12/06/2024	15:33	PO108366.D	8.74	3.71
AR1221ICC500	AR1221ICC500	12/06/2024	15:51	PO108367.D	8.74	3.71
AR1232ICC500	AR1232ICC500	12/06/2024	16:09	PO108368.D	8.74	3.71
AR1242ICC1000	AR1242ICC1000	12/06/2024	16:28	PO108369.D	8.74	3.71
AR1242ICC750	AR1242ICC750	12/06/2024	16:46	PO108370.D	8.74	3.71
AR1242ICC500	AR1242ICC500	12/06/2024	17:04	PO108371.D	8.74	3.71
AR1242ICC250	AR1242ICC250	12/06/2024	17:23	PO108372.D	8.74	3.71
AR1242ICC050	AR1242ICC050	12/06/2024	17:41	PO108373.D	8.74	3.71
AR1248ICC1000	AR1248ICC1000	12/06/2024	17:59	PO108374.D	8.74	3.71
AR1248ICC750	AR1248ICC750	12/06/2024	18:18	PO108375.D	8.74	3.71
AR1248ICC500	AR1248ICC500	12/06/2024	18:36	PO108376.D	8.74	3.71
AR1248ICC250	AR1248ICC250	12/06/2024	18:54	PO108377.D	8.74	3.71
AR1248ICC050	AR1248ICC050	12/06/2024	19:13	PO108378.D	8.74	3.71
AR1254ICC1000	AR1254ICC1000	12/06/2024	19:31	PO108379.D	8.74	3.71
AR1254ICC750	AR1254ICC750	12/06/2024	19:49	PO108380.D	8.74	3.71
AR1254ICC500	AR1254ICC500	12/06/2024	20:08	PO108381.D	8.74	3.71
AR1254ICC250	AR1254ICC250	12/06/2024	20:26	PO108382.D	8.74	3.71
AR1254ICC050	AR1254ICC050	12/06/2024	20:44	PO108383.D	8.74	3.71
AR1262ICC500	AR1262ICC500	12/06/2024	21:03	PO108384.D	8.74	3.71
AR1268ICC1000	AR1268ICC1000	12/06/2024	21:21	PO108385.D	8.74	3.71
AR1268ICC750	AR1268ICC750	12/06/2024	21:39	PO108386.D	8.74	3.71
AR1268ICC500	AR1268ICC500	12/06/2024	21:58	PO108387.D	8.74	3.71
AR1268ICC250	AR1268ICC250	12/06/2024	22:16	PO108388.D	8.74	3.71
AR1268ICC050	AR1268ICC050	12/06/2024	22:34	PO108389.D	8.74	3.71
AR1660CCC500	AR1660CCC500	12/16/2024	09:35	PO108540.D	8.72	3.70
I.BLK	I.BLK	12/16/2024	11:23	PO108544.D	8.72	3.70
PB165646BL	PB165646BL	12/16/2024	13:09	PO108545.D	8.72	3.70
PB165646BS	PB165646BS	12/16/2024	13:28	PO108546.D	8.72	3.70
OR-02-12122024MS	P5268-01MS	12/16/2024	14:04	PO108548.D	8.72	3.70
OR-02-12122024MSD	P5268-01MSD	12/16/2024	14:23	PO108549.D	8.72	3.70
COMP-1A	P5277-01	12/16/2024	14:41	PO108550.D	8.73	3.70
COMP-2A	P5277-02	12/16/2024	14:59	PO108551.D	8.72	3.70
COMP-3A	P5277-03	12/16/2024	15:18	PO108552.D	8.73	3.70
AR1660CCC500	AR1660CCC500	12/16/2024	16:27	PO108555.D	8.73	3.70
I.BLK	I.BLK	12/16/2024	17:40	PO108559.D	8.72	3.70

QC SAMPLE DATA

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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165646BL	SDG No.:	P5277
Lab Sample ID:	PB165646BL	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.01 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108545.D	1	12/16/24 08:50	12/16/24 13:09	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	3.40	U	3.40	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
11096-82-5	Aroclor-1260	2.90	U	2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.6		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.4		32 - 175	117%	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:	Kleinfelder	Date Collected:	12/06/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/06/24
Client Sample ID:	PIBLK-PO108361.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PO108361.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108361.D	1		12/06/24	PO120624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	21.6		60 - 140	108%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.6		60 - 140	118%	SPK: 20

Comments:

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MDL = Method Detection Limit
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() = Laboratory InHouse Limit

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PO108544.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PO108544.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108544.D	1		12/16/24	PO121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	18.8		60 - 140	94%	SPK: 20
2051-24-3	Decachlorobiphenyl	18.7		60 - 140	94%	SPK: 20

Comments:

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LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
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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

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B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
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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:	Kleinfelder	Date Collected:	12/16/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/16/24
Client Sample ID:	PIBLK-PO108559.D	SDG No.:	P5277
Lab Sample ID:	I.BLK-PO108559.D	Matrix:	WATER
Analytical Method:	SW8082A	% Solid:	0 Decanted:
Sample Wt/Vol:	1000 Units: mL	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	5030		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108559.D	1		12/16/24	PO121624

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
12674-11-2	Aroclor-1016	0.15	U	0.15	0.50	ug/L
11097-69-1	Aroclor-1254	0.11	U	0.11	0.50	ug/L
11096-82-5	Aroclor-1260	0.15	U	0.15	0.50	ug/L
SURROGATES						
877-09-8	Tetrachloro-m-xylene	17.6		60 - 140	88%	SPK: 20
2051-24-3	Decachlorobiphenyl	17.3		60 - 140	86%	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:	Kleinfelder	Date Collected:	
Project:	Tanner G. Duckrey Public School	Date Received:	
Client Sample ID:	PB165646BS	SDG No.:	P5277
Lab Sample ID:	PB165646BS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	100 Decanted:
Sample Wt/Vol:	30.03 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108546.D	1	12/16/24 08:50	12/16/24 13:28	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	162		3.40	17.0	ug/kg
11097-69-1	Aroclor-1254	2.70	U	2.70	17.0	ug/kg
11096-82-5	Aroclor-1260	168		2.90	17.0	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	19.7		32 - 144	99%	SPK: 20
2051-24-3	Decachlorobiphenyl	23.7		32 - 175	119%	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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/12/24
Client Sample ID:	OR-02-12122024MS	SDG No.:	P5277
Lab Sample ID:	P5268-01MS	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.2 Decanted:
Sample Wt/Vol:	30.09 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108548.D	1	12/16/24 08:50	12/16/24 14:04	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	195		3.90	19.4	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.4	ug/kg
11096-82-5	Aroclor-1260	191		3.30	19.4	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.5		32 - 144	102%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.8		32 - 175	99%	SPK: 20

Comments:

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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:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/12/24
Client Sample ID:	OR-02-12122024MSD	SDG No.:	P5277
Lab Sample ID:	P5268-01MSD	Matrix:	SOIL
Analytical Method:	SW8082A	% Solid:	87.2 Decanted:
Sample Wt/Vol:	30.07 Units: g	Final Vol:	10000 uL
Soil Aliquot Vol:	uL	Test:	PCB Group1
Extraction Type:		Injection Volume :	
GPC Factor :	1.0 PH :		
Prep Method :	SW3541B		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
PO108549.D	1	12/16/24 08:50	12/16/24 14:23	PB165646

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units(Dry Weight)
TARGETS						
12674-11-2	Aroclor-1016	190		3.90	19.5	ug/kg
11097-69-1	Aroclor-1254	3.10	U	3.10	19.5	ug/kg
11096-82-5	Aroclor-1260	186		3.30	19.5	ug/kg
SURROGATES						
877-09-8	Tetrachloro-m-xylene	20.5		32 - 144	103%	SPK: 20
2051-24-3	Decachlorobiphenyl	19.3		32 - 175	97%	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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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24**			**12/13/24**
			Mercury	7471B		12/16/24	12/16/24	
			Metals ICP-Group1	6010D		12/13/24	12/16/24	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24**			**12/13/24**
			Mercury	7471B		12/16/24	12/16/24	
			Metals ICP-Group1	6010D		12/13/24	12/16/24	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24**			**12/13/24**
			Mercury	7471B		12/16/24	12/16/24	
			Metals ICP-Group1	6010D		12/13/24	12/16/24	

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Hit Summary Sheet
SW-846

SDG No.: P5277 **Order ID:** P5277

Client: Kleinfelder **Project ID:** Tanner G. Duckrey Public School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
Client ID : COMP-1A								
P5277-01	COMP-1A	SOIL	Aluminum	19600		2.59	5.38	mg/Kg
P5277-01	COMP-1A	SOIL	Barium	95.8		0.69	5.38	mg/Kg
P5277-01	COMP-1A	SOIL	Beryllium	1.59		0.013	0.32	mg/Kg
P5277-01	COMP-1A	SOIL	Cadmium	2.67		0.017	0.32	mg/Kg
P5277-01	COMP-1A	SOIL	Chromium	24.0		0.058	0.54	mg/Kg
P5277-01	COMP-1A	SOIL	Cobalt	11.8		0.062	1.61	mg/Kg
P5277-01	COMP-1A	SOIL	Copper	13.6		0.51	1.08	mg/Kg
P5277-01	COMP-1A	SOIL	Iron	20500		2.89	5.38	mg/Kg
P5277-01	COMP-1A	SOIL	Lead	14.4		0.16	0.65	mg/Kg
P5277-01	COMP-1A	SOIL	Manganese	289		0.076	1.08	mg/Kg
P5277-01	COMP-1A	SOIL	Nickel	18.0		0.097	2.15	mg/Kg
P5277-01	COMP-1A	SOIL	Vanadium	32.5		0.29	2.15	mg/Kg
P5277-01	COMP-1A	SOIL	Zinc	59.7		0.12	2.15	mg/Kg
Client ID : COMP-2A								
P5277-02	COMP-2A	SOIL	Aluminum	22500		2.56	5.30	mg/Kg
P5277-02	COMP-2A	SOIL	Barium	124		0.68	5.30	mg/Kg
P5277-02	COMP-2A	SOIL	Beryllium	2.33		0.013	0.32	mg/Kg
P5277-02	COMP-2A	SOIL	Cadmium	5.90		0.017	0.32	mg/Kg
P5277-02	COMP-2A	SOIL	Chromium	42.0		0.057	0.53	mg/Kg
P5277-02	COMP-2A	SOIL	Cobalt	20.8		0.062	1.59	mg/Kg
P5277-02	COMP-2A	SOIL	Copper	24.1		0.50	1.06	mg/Kg
P5277-02	COMP-2A	SOIL	Iron	34200		2.85	5.30	mg/Kg
P5277-02	COMP-2A	SOIL	Lead	17.1		0.16	0.64	mg/Kg
P5277-02	COMP-2A	SOIL	Manganese	565		0.075	1.06	mg/Kg
P5277-02	COMP-2A	SOIL	Mercury	0.011	J	0.0070	0.016	mg/Kg
P5277-02	COMP-2A	SOIL	Nickel	37.5		0.095	2.12	mg/Kg
P5277-02	COMP-2A	SOIL	Vanadium	66.9		0.29	2.12	mg/Kg
P5277-02	COMP-2A	SOIL	Zinc	86.4		0.12	2.12	mg/Kg
Client ID : COMP-3A								
P5277-03	COMP-3A	SOIL	Aluminum	21300		2.19	4.54	mg/Kg
P5277-03	COMP-3A	SOIL	Barium	185		0.58	4.54	mg/Kg
P5277-03	COMP-3A	SOIL	Beryllium	1.89		0.011	0.27	mg/Kg
P5277-03	COMP-3A	SOIL	Cadmium	8.36		0.015	0.27	mg/Kg
P5277-03	COMP-3A	SOIL	Chromium	33.6		0.049	0.45	mg/Kg
P5277-03	COMP-3A	SOIL	Cobalt	26.9		0.053	1.36	mg/Kg
P5277-03	COMP-3A	SOIL	Copper	48.3		0.43	0.91	mg/Kg

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Hit Summary Sheet
SW-846

SDG No.: P5277 **Order ID:** P5277

Client: Kleinfelder **Project ID:** Tanner G. Duckrey Public School

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
P5277-03	COMP-3A	SOIL	Iron	33400		2.44	4.54	mg/Kg
P5277-03	COMP-3A	SOIL	Lead	11.8		0.14	0.55	mg/Kg
P5277-03	COMP-3A	SOIL	Manganese	386		0.064	0.91	mg/Kg
P5277-03	COMP-3A	SOIL	Molybdenum	0.49	J	0.29	9.08	mg/Kg
P5277-03	COMP-3A	SOIL	Nickel	27.3		0.082	1.82	mg/Kg
P5277-03	COMP-3A	SOIL	Vanadium	67.4		0.25	1.82	mg/Kg
P5277-03	COMP-3A	SOIL	Zinc	77.4		0.10	1.82	mg/Kg

SAMPLE DATA

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
Level (low/med):	low	% Solid:	88.5

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	19600		1	2.59	5.38	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-36-0	Antimony	0.16	UN	1	0.16	2.69	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-38-2	Arsenic	0.31	U	1	0.31	1.08	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-39-3	Barium	95.8		1	0.69	5.38	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-41-7	Beryllium	1.59		1	0.013	0.32	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-42-8	Boron	0.85	UN	1	0.85	5.38	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-43-9	Cadmium	2.67		1	0.017	0.32	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-47-3	Chromium	24.0		1	0.058	0.54	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-48-4	Cobalt	11.8		1	0.062	1.61	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-50-8	Copper	13.6		1	0.51	1.08	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7439-89-6	Iron	20500		1	2.89	5.38	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7439-92-1	Lead	14.4		1	0.16	0.65	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7439-96-5	Manganese	289		1	0.076	1.08	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7439-97-6	Mercury	0.0070	U	1	0.0070	0.016	mg/Kg	12/16/24 09:00	12/16/24 14:12	SW7471B	
7439-98-7	Molybdenum	0.34	UN	1	0.34	10.8	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-02-0	Nickel	18.0		1	0.097	2.15	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7782-49-2	Selenium	0.36	U	1	0.36	1.08	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-22-4	Silver	0.056	U	1	0.056	0.54	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-28-0	Thallium	0.47	U	1	0.47	2.15	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-62-2	Vanadium	32.5		1	0.29	2.15	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050
7440-66-6	Zinc	59.7		1	0.12	2.15	mg/Kg	12/13/24 13:30	12/16/24 19:15	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group1				

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
Level (low/med):	low	% Solid:	78.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	22500		1	2.56	5.30	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-36-0	Antimony	0.16	UN	1	0.16	2.65	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-38-2	Arsenic	0.31	U	1	0.31	1.06	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-39-3	Barium	124		1	0.68	5.30	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-41-7	Beryllium	2.33		1	0.013	0.32	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-42-8	Boron	0.84	UN	1	0.84	5.30	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-43-9	Cadmium	5.90		1	0.017	0.32	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-47-3	Chromium	42.0		1	0.057	0.53	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-48-4	Cobalt	20.8		1	0.062	1.59	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-50-8	Copper	24.1		1	0.50	1.06	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7439-89-6	Iron	34200		1	2.85	5.30	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7439-92-1	Lead	17.1		1	0.16	0.64	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7439-96-5	Manganese	565		1	0.075	1.06	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7439-97-6	Mercury	0.011	J	1	0.0070	0.016	mg/Kg	12/16/24 09:00	12/16/24 14:14	SW7471B	
7439-98-7	Molybdenum	0.34	UN	1	0.34	10.6	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-02-0	Nickel	37.5		1	0.095	2.12	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7782-49-2	Selenium	0.35	U	1	0.35	1.06	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-22-4	Silver	0.055	U	1	0.055	0.53	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-28-0	Thallium	0.47	U	1	0.47	2.12	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-62-2	Vanadium	66.9		1	0.29	2.12	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050
7440-66-6	Zinc	86.4		1	0.12	2.12	mg/Kg	12/13/24 13:30	12/16/24 19:19	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group1				

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

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
Level (low/med):	low	% Solid:	89.9

Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.	Prep Met.
7429-90-5	Aluminum	21300		1	2.19	4.54	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-36-0	Antimony	0.14	UN	1	0.14	2.27	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-38-2	Arsenic	0.26	U	1	0.26	0.91	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-39-3	Barium	185		1	0.58	4.54	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-41-7	Beryllium	1.89		1	0.011	0.27	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-42-8	Boron	0.72	UN	1	0.72	4.54	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-43-9	Cadmium	8.36		1	0.015	0.27	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-47-3	Chromium	33.6		1	0.049	0.45	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-48-4	Cobalt	26.9		1	0.053	1.36	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-50-8	Copper	48.3		1	0.43	0.91	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7439-89-6	Iron	33400		1	2.44	4.54	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7439-92-1	Lead	11.8		1	0.14	0.55	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7439-96-5	Manganese	386		1	0.064	0.91	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7439-97-6	Mercury	0.0060	U	1	0.0060	0.013	mg/Kg	12/16/24 09:00	12/16/24 14:16	SW7471B	
7439-98-7	Molybdenum	0.49	JN	1	0.29	9.08	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-02-0	Nickel	27.3		1	0.082	1.82	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7782-49-2	Selenium	0.30	U	1	0.30	0.91	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-22-4	Silver	0.047	U	1	0.047	0.45	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-28-0	Thallium	0.40	U	1	0.40	1.82	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-62-2	Vanadium	67.4		1	0.25	1.82	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050
7440-66-6	Zinc	77.4		1	0.10	1.82	mg/Kg	12/13/24 13:30	12/16/24 19:24	SW6010	SW3050

Color Before:	Brown	Clarity Before:		Texture:	Medium
Color After:	Yellow	Clarity After:		Artifacts:	
Comments:	Metals Group1				

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

METAL CALIBRATION DATA

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV19	Mercury	3.88	4.0	97	90 - 110	CV	12/16/2024	11:40	LB133960

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV29	Mercury	4.83	5.0	97	90 - 110	CV	12/16/2024	11:51	LB133960
CCV30	Mercury	5.32	5.0	106	90 - 110	CV	12/16/2024	14:19	LB133960
CCV31	Mercury	4.69	5.0	94	90 - 110	CV	12/16/2024	15:26	LB133960

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	2620	2500	105	90 - 110	P	12/16/2024	16:02	LB133968
	Antimony	1020	1000	102	90 - 110	P	12/16/2024	16:02	LB133968
	Arsenic	1030	1000	103	90 - 110	P	12/16/2024	16:02	LB133968
	Barium	520	520	100	90 - 110	P	12/16/2024	16:02	LB133968
	Beryllium	527	510	103	90 - 110	P	12/16/2024	16:02	LB133968
	Boron	2280	2500	91	90 - 110	P	12/16/2024	16:02	LB133968
	Cadmium	519	510	102	90 - 110	P	12/16/2024	16:02	LB133968
	Chromium	540	520	104	90 - 110	P	12/16/2024	16:02	LB133968
	Cobalt	526	520	101	90 - 110	P	12/16/2024	16:02	LB133968
	Copper	541	510	106	90 - 110	P	12/16/2024	16:02	LB133968
	Iron	10200	10000	102	90 - 110	P	12/16/2024	16:02	LB133968
	Lead	1030	1000	103	90 - 110	P	12/16/2024	16:02	LB133968
	Manganese	527	520	101	90 - 110	P	12/16/2024	16:02	LB133968
	Molybdenum	2270	2500	91	90 - 110	P	12/16/2024	16:02	LB133968
	Nickel	529	530	100	90 - 110	P	12/16/2024	16:02	LB133968
	Selenium	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968
	Silver	255	250	102	90 - 110	P	12/16/2024	16:02	LB133968
	Thallium	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968
	Vanadium	511	500	102	90 - 110	P	12/16/2024	16:02	LB133968
	Zinc	1060	1000	106	90 - 110	P	12/16/2024	16:02	LB133968

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	103	100	103	80 - 120	P	12/16/2024	16:06	LB133968
	Antimony	46.4	50.0	93	80 - 120	P	12/16/2024	16:06	LB133968
	Arsenic	19.2	20.0	96	80 - 120	P	12/16/2024	16:06	LB133968
	Barium	95.0	100	95	80 - 120	P	12/16/2024	16:06	LB133968
	Beryllium	5.99	6.0	100	80 - 120	P	12/16/2024	16:06	LB133968
	Boron	110	100	110	80 - 120	P	12/16/2024	16:06	LB133968
	Cadmium	5.53	6.0	92	80 - 120	P	12/16/2024	16:06	LB133968
	Chromium	9.70	10.0	97	80 - 120	P	12/16/2024	16:06	LB133968
	Cobalt	28.0	30.0	93	80 - 120	P	12/16/2024	16:06	LB133968
	Copper	21.6	20.0	108	80 - 120	P	12/16/2024	16:06	LB133968
	Iron	91.1	100	91	80 - 120	P	12/16/2024	16:06	LB133968
	Lead	10.6	12.0	88	80 - 120	P	12/16/2024	16:06	LB133968
	Manganese	20.2	20.0	101	80 - 120	P	12/16/2024	16:06	LB133968
	Molybdenum	196	200	98	80 - 120	P	12/16/2024	16:06	LB133968
	Nickel	37.5	40.0	94	80 - 120	P	12/16/2024	16:06	LB133968
	Selenium	19.7	20.0	98	80 - 120	P	12/16/2024	16:06	LB133968
	Silver	9.45	10.0	94	80 - 120	P	12/16/2024	16:06	LB133968
	Thallium	35.6	40.0	89	80 - 120	P	12/16/2024	16:06	LB133968
	Vanadium	38.7	40.0	97	80 - 120	P	12/16/2024	16:06	LB133968
	Zinc	39.8	40.0	100	80 - 120	P	12/16/2024	16:06	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9630	10000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Antimony	4800	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Arsenic	4810	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Barium	9520	10000	95	90 - 110	P	12/16/2024	16:57	LB133968
	Beryllium	252	250	101	90 - 110	P	12/16/2024	16:57	LB133968
	Boron	4980	5000	100	90 - 110	P	12/16/2024	16:57	LB133968
	Cadmium	2460	2500	99	90 - 110	P	12/16/2024	16:57	LB133968
	Chromium	993	1000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Cobalt	2440	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	16:57	LB133968
	Iron	4780	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Lead	4930	5000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Manganese	2420	2500	97	90 - 110	P	12/16/2024	16:57	LB133968
	Molybdenum	4810	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Nickel	2450	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
	Selenium	4810	5000	96	90 - 110	P	12/16/2024	16:57	LB133968
	Silver	1220	1250	98	90 - 110	P	12/16/2024	16:57	LB133968
	Thallium	4960	5000	99	90 - 110	P	12/16/2024	16:57	LB133968
	Vanadium	2430	2500	97	90 - 110	P	12/16/2024	16:57	LB133968
	Zinc	2460	2500	98	90 - 110	P	12/16/2024	16:57	LB133968
CCV02	Aluminum	9700	10000	97	90 - 110	P	12/16/2024	17:58	LB133968
	Antimony	4720	5000	94	90 - 110	P	12/16/2024	17:58	LB133968
	Arsenic	4740	5000	95	90 - 110	P	12/16/2024	17:58	LB133968
	Barium	9620	10000	96	90 - 110	P	12/16/2024	17:58	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	17:58	LB133968
	Boron	5130	5000	103	90 - 110	P	12/16/2024	17:58	LB133968
	Cadmium	2500	2500	100	90 - 110	P	12/16/2024	17:58	LB133968
	Chromium	1020	1000	102	90 - 110	P	12/16/2024	17:58	LB133968
	Cobalt	2470	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	17:58	LB133968
	Iron	4840	5000	97	90 - 110	P	12/16/2024	17:58	LB133968
	Lead	5000	5000	100	90 - 110	P	12/16/2024	17:58	LB133968
	Manganese	2490	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Molybdenum	4820	5000	96	90 - 110	P	12/16/2024	17:58	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Nickel	2480	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Selenium	4710	5000	94	90 - 110	P	12/16/2024	17:58	LB133968
	Silver	1240	1250	99	90 - 110	P	12/16/2024	17:58	LB133968
	Thallium	4930	5000	98	90 - 110	P	12/16/2024	17:58	LB133968
	Vanadium	2480	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
	Zinc	2470	2500	99	90 - 110	P	12/16/2024	17:58	LB133968
CCV03	Aluminum	9590	10000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Antimony	4660	5000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Arsenic	4700	5000	94	90 - 110	P	12/16/2024	18:48	LB133968
	Barium	9330	10000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	18:48	LB133968
	Boron	5110	5000	102	90 - 110	P	12/16/2024	18:48	LB133968
	Cadmium	2480	2500	99	90 - 110	P	12/16/2024	18:48	LB133968
	Chromium	1020	1000	102	90 - 110	P	12/16/2024	18:48	LB133968
	Cobalt	2450	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Copper	1210	1250	96	90 - 110	P	12/16/2024	18:48	LB133968
	Iron	4810	5000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Lead	4950	5000	99	90 - 110	P	12/16/2024	18:48	LB133968
	Manganese	2470	2500	99	90 - 110	P	12/16/2024	18:48	LB133968
	Molybdenum	4760	5000	95	90 - 110	P	12/16/2024	18:48	LB133968
	Nickel	2460	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Selenium	4670	5000	93	90 - 110	P	12/16/2024	18:48	LB133968
	Silver	1230	1250	98	90 - 110	P	12/16/2024	18:48	LB133968
	Thallium	4800	5000	96	90 - 110	P	12/16/2024	18:48	LB133968
	Vanadium	2460	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
	Zinc	2440	2500	98	90 - 110	P	12/16/2024	18:48	LB133968
CCV04	Aluminum	9770	10000	98	90 - 110	P	12/16/2024	19:51	LB133968
	Antimony	4690	5000	94	90 - 110	P	12/16/2024	19:51	LB133968
	Arsenic	4740	5000	95	90 - 110	P	12/16/2024	19:51	LB133968
	Barium	9400	10000	94	90 - 110	P	12/16/2024	19:51	LB133968
	Beryllium	274	250	110	90 - 110	P	12/16/2024	19:51	LB133968
	Boron	5280	5000	106	90 - 110	P	12/16/2024	19:51	LB133968
	Cadmium	2550	2500	102	90 - 110	P	12/16/2024	19:51	LB133968
	Chromium	1040	1000	104	90 - 110	P	12/16/2024	19:51	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Cobalt	2510	2500	100	90 - 110	P	12/16/2024	19:51	LB133968
	Copper	1220	1250	98	90 - 110	P	12/16/2024	19:51	LB133968
	Iron	4880	5000	98	90 - 110	P	12/16/2024	19:51	LB133968
	Lead	5050	5000	101	90 - 110	P	12/16/2024	19:51	LB133968
	Manganese	2540	2500	102	90 - 110	P	12/16/2024	19:51	LB133968
	Molybdenum	4860	5000	97	90 - 110	P	12/16/2024	19:51	LB133968
	Nickel	2510	2500	101	90 - 110	P	12/16/2024	19:51	LB133968
	Selenium	4680	5000	94	90 - 110	P	12/16/2024	19:51	LB133968
	Silver	1240	1250	100	90 - 110	P	12/16/2024	19:51	LB133968
	Thallium	4970	5000	99	90 - 110	P	12/16/2024	19:51	LB133968
	Vanadium	2530	2500	101	90 - 110	P	12/16/2024	19:51	LB133968
	Zinc	2460	2500	98	90 - 110	P	12/16/2024	19:51	LB133968
CCV05	Aluminum	9980	10000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Antimony	4980	5000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Arsenic	4960	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Barium	9720	10000	97	90 - 110	P	12/16/2024	20:49	LB133968
	Beryllium	263	250	105	90 - 110	P	12/16/2024	20:49	LB133968
	Boron	5200	5000	104	90 - 110	P	12/16/2024	20:49	LB133968
	Cadmium	2520	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
	Chromium	1030	1000	103	90 - 110	P	12/16/2024	20:49	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	20:49	LB133968
	Copper	1260	1250	101	90 - 110	P	12/16/2024	20:49	LB133968
	Iron	4950	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Lead	5060	5000	101	90 - 110	P	12/16/2024	20:49	LB133968
	Manganese	2500	2500	100	90 - 110	P	12/16/2024	20:49	LB133968
	Molybdenum	5000	5000	100	90 - 110	P	12/16/2024	20:49	LB133968
	Nickel	2510	2500	100	90 - 110	P	12/16/2024	20:49	LB133968
	Selenium	4960	5000	99	90 - 110	P	12/16/2024	20:49	LB133968
	Silver	1270	1250	101	90 - 110	P	12/16/2024	20:49	LB133968
	Thallium	5030	5000	101	90 - 110	P	12/16/2024	20:49	LB133968
	Vanadium	2530	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
	Zinc	2520	2500	101	90 - 110	P	12/16/2024	20:49	LB133968
CCV06	Aluminum	9700	10000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Antimony	4710	5000	94	90 - 110	P	12/16/2024	21:47	LB133968

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV06	Arsenic	4730	5000	95	90 - 110	P	12/16/2024	21:47	LB133968
	Barium	9350	10000	94	90 - 110	P	12/16/2024	21:47	LB133968
	Beryllium	268	250	107	90 - 110	P	12/16/2024	21:47	LB133968
	Boron	5220	5000	104	90 - 110	P	12/16/2024	21:47	LB133968
	Cadmium	2510	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Chromium	1030	1000	103	90 - 110	P	12/16/2024	21:47	LB133968
	Cobalt	2470	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
	Copper	1220	1250	97	90 - 110	P	12/16/2024	21:47	LB133968
	Iron	4840	5000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Lead	5020	5000	100	90 - 110	P	12/16/2024	21:47	LB133968
	Manganese	2490	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Molybdenum	4830	5000	96	90 - 110	P	12/16/2024	21:47	LB133968
	Nickel	2480	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
	Selenium	4700	5000	94	90 - 110	P	12/16/2024	21:47	LB133968
	Silver	1250	1250	100	90 - 110	P	12/16/2024	21:47	LB133968
	Thallium	4870	5000	97	90 - 110	P	12/16/2024	21:47	LB133968
	Vanadium	2490	2500	100	90 - 110	P	12/16/2024	21:47	LB133968
	Zinc	2470	2500	99	90 - 110	P	12/16/2024	21:47	LB133968
CCV07	Aluminum	9690	10000	97	90 - 110	P	12/16/2024	23:02	LB133968
	Antimony	4630	5000	92	90 - 110	P	12/16/2024	23:02	LB133968
	Arsenic	4700	5000	94	90 - 110	P	12/16/2024	23:02	LB133968
	Barium	9330	10000	93	90 - 110	P	12/16/2024	23:02	LB133968
	Beryllium	232	250	93	90 - 110	P	12/16/2024	23:02	LB133968
	Boron	5340	5000	107	90 - 110	P	12/16/2024	23:02	LB133968
	Cadmium	2560	2500	102	90 - 110	P	12/16/2024	23:02	LB133968
	Chromium	1050	1000	105	90 - 110	P	12/16/2024	23:02	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	23:02	LB133968
	Copper	1210	1250	96	90 - 110	P	12/16/2024	23:02	LB133968
	Iron	4820	5000	96	90 - 110	P	12/16/2024	23:02	LB133968
	Lead	5100	5000	102	90 - 110	P	12/16/2024	23:02	LB133968
	Manganese	2520	2500	101	90 - 110	P	12/16/2024	23:02	LB133968
	Molybdenum	4790	5000	96	90 - 110	P	12/16/2024	23:02	LB133968
	Nickel	2520	2500	101	90 - 110	P	12/16/2024	23:02	LB133968
	Selenium	4640	5000	93	90 - 110	P	12/16/2024	23:02	LB133968

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Metals

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV07	Silver	1250	1250	100	90 - 110	P	12/16/2024	23:02	LB133968
	Thallium	4980	5000	100	90 - 110	P	12/16/2024	23:02	LB133968
	Vanadium	2510	2500	100	90 - 110	P	12/16/2024	23:02	LB133968
	Zinc	2460	2500	99	90 - 110	P	12/16/2024	23:02	LB133968
CCV08	Aluminum	9720	10000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Antimony	4760	5000	95	90 - 110	P	12/16/2024	23:35	LB133968
	Arsenic	4800	5000	96	90 - 110	P	12/16/2024	23:35	LB133968
	Barium	9410	10000	94	90 - 110	P	12/16/2024	23:35	LB133968
	Beryllium	274	250	109	90 - 110	P	12/16/2024	23:35	LB133968
	Boron	5270	5000	105	90 - 110	P	12/16/2024	23:35	LB133968
	Cadmium	2540	2500	102	90 - 110	P	12/16/2024	23:35	LB133968
	Chromium	1050	1000	105	90 - 110	P	12/16/2024	23:35	LB133968
	Cobalt	2500	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Copper	1230	1250	99	90 - 110	P	12/16/2024	23:35	LB133968
	Iron	4830	5000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Lead	5070	5000	102	90 - 110	P	12/16/2024	23:35	LB133968
	Manganese	2500	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Molybdenum	4850	5000	97	90 - 110	P	12/16/2024	23:35	LB133968
	Nickel	2520	2500	101	90 - 110	P	12/16/2024	23:35	LB133968
	Selenium	4760	5000	95	90 - 110	P	12/16/2024	23:35	LB133968
	Silver	1260	1250	101	90 - 110	P	12/16/2024	23:35	LB133968
	Thallium	4900	5000	98	90 - 110	P	12/16/2024	23:35	LB133968
	Vanadium	2510	2500	100	90 - 110	P	12/16/2024	23:35	LB133968
	Zinc	2490	2500	100	90 - 110	P	12/16/2024	23:35	LB133968

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Metals

- 2b -
CRDL STANDARD FOR AA & ICP

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Initial Calibration Source:

Continuing Calibration Source:

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CRA	Mercury	0.21	0.2	103	40 - 160	CV	12/16/2024	12:11	LB133960
CRI01	Aluminum	94.7	100	95	40 - 160	P	12/16/2024	16:14	LB133968
	Antimony	47.4	50.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Arsenic	18.9	20.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Barium	97.7	100	98	40 - 160	P	12/16/2024	16:14	LB133968
	Beryllium	6.13	6.0	102	40 - 160	P	12/16/2024	16:14	LB133968
	Boron	101	100	102	40 - 160	P	12/16/2024	16:14	LB133968
	Cadmium	5.61	6.0	94	40 - 160	P	12/16/2024	16:14	LB133968
	Chromium	9.95	10.0	100	40 - 160	P	12/16/2024	16:14	LB133968
	Cobalt	28.5	30.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Copper	21.3	20.0	107	40 - 160	P	12/16/2024	16:14	LB133968
	Iron	91.4	100	91	40 - 160	P	12/16/2024	16:14	LB133968
	Lead	12.0	12.0	100	40 - 160	P	12/16/2024	16:14	LB133968
	Manganese	20.6	20.0	103	40 - 160	P	12/16/2024	16:14	LB133968
	Molybdenum	196	200	98	40 - 160	P	12/16/2024	16:14	LB133968
	Nickel	38.0	40.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Selenium	19.0	20.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Silver	9.77	10.0	98	40 - 160	P	12/16/2024	16:14	LB133968
	Thallium	38.1	40.0	95	40 - 160	P	12/16/2024	16:14	LB133968
	Vanadium	40.5	40.0	101	40 - 160	P	12/16/2024	16:14	LB133968
	Zinc	43.5	40.0	109	40 - 160	P	12/16/2024	16:14	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB19	Mercury	0.20	+/-0.20	U	0.20	CV	12/16/2024	11:45	LB133960

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB29	Mercury	0.20	+/-0.20	U	0.20	CV	12/16/2024	11:55	LB133960
CCB30	Mercury	0.20	+/-0.20	U	0.20	CV	12/16/2024	14:24	LB133960
CCB31	Mercury	0.20	+/-0.20	U	0.20	CV	12/16/2024	15:28	LB133960

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB01	Aluminum	100	+/-100	U	100	P	12/16/2024	16:10	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	16:10	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	16:10	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	16:10	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	16:10	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	16:10	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	16:10	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	16:10	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	16:10	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	16:10	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	16:10	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	16:10	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	16:10	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	16:10	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	16:10	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	16:10	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	16:10	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	16:10	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	16:10	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	16:10	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB01	Aluminum	100	+/-100	U	100	P	12/16/2024	17:01	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	17:01	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	17:01	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	17:01	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	17:01	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	17:01	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	17:01	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	17:01	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	17:01	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	17:01	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	17:01	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	17:01	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	17:01	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	17:01	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	17:01	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	17:01	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	17:01	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	17:01	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	17:01	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	17:01	LB133968
CCB02	Aluminum	100	+/-100	U	100	P	12/16/2024	18:02	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	18:02	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	18:02	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	18:02	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	18:02	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	18:02	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	18:02	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	18:02	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	18:02	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	18:02	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	18:02	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	18:02	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	18:02	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	18:02	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	18:02	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	18:02	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	18:02	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	18:02	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	18:02	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB02	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	18:02	LB133968
CCB03	Aluminum	100	+/-100	U	100	P	12/16/2024	18:52	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	18:52	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	18:52	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	18:52	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	18:52	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	18:52	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	18:52	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	18:52	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	18:52	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	18:52	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	18:52	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	18:52	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	18:52	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	18:52	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	18:52	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	18:52	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	18:52	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	18:52	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	18:52	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	18:52	LB133968
CCB04	Aluminum	100	+/-100	U	100	P	12/16/2024	19:57	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	19:57	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	19:57	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	19:57	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	19:57	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	19:57	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	19:57	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	19:57	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	19:57	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	19:57	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	19:57	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	19:57	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	19:57	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	19:57	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	19:57	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	19:57	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	19:57	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	19:57	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB04	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	19:57	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	19:57	LB133968
CCB05	Aluminum	100	+/-100	U	100	P	12/16/2024	20:53	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	20:53	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	20:53	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	20:53	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	20:53	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	20:53	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	20:53	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	20:53	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	20:53	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	20:53	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	20:53	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	20:53	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	20:53	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	20:53	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	20:53	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	20:53	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	20:53	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	20:53	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	20:53	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	20:53	LB133968
CCB06	Aluminum	100	+/-100	U	100	P	12/16/2024	21:51	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	21:51	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	21:51	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	21:51	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	21:51	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	21:51	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	21:51	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	21:51	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	21:51	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	21:51	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	21:51	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	21:51	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	21:51	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	21:51	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	21:51	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	21:51	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	21:51	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB06	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	21:51	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	21:51	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	21:51	LB133968
CCB07	Aluminum	100	+/-100	U	100	P	12/16/2024	23:06	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	23:06	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	23:06	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	23:06	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	23:06	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	23:06	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	23:06	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	23:06	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	23:06	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	23:06	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	23:06	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	23:06	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	23:06	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	23:06	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	23:06	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	23:06	LB133968
	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	23:06	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	23:06	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	23:06	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	23:06	LB133968
CCB08	Aluminum	100	+/-100	U	100	P	12/16/2024	23:39	LB133968
	Antimony	50.0	+/-50.0	U	50.0	P	12/16/2024	23:39	LB133968
	Arsenic	20.0	+/-20.0	U	20.0	P	12/16/2024	23:39	LB133968
	Barium	100	+/-100	U	100	P	12/16/2024	23:39	LB133968
	Beryllium	6.00	+/-6.00	U	6.00	P	12/16/2024	23:39	LB133968
	Boron	100	+/-100	U	100	P	12/16/2024	23:39	LB133968
	Cadmium	6.00	+/-6.00	U	6.00	P	12/16/2024	23:39	LB133968
	Chromium	10.0	+/-10.0	U	10.0	P	12/16/2024	23:39	LB133968
	Cobalt	30.0	+/-30.0	U	30.0	P	12/16/2024	23:39	LB133968
	Copper	20.0	+/-20.0	U	20.0	P	12/16/2024	23:39	LB133968
	Iron	100	+/-100	U	100	P	12/16/2024	23:39	LB133968
	Lead	12.0	+/-12.0	U	12.0	P	12/16/2024	23:39	LB133968
	Manganese	20.0	+/-20.0	U	20.0	P	12/16/2024	23:39	LB133968
	Molybdenum	200	+/-200	U	200	P	12/16/2024	23:39	LB133968
	Nickel	40.0	+/-40.0	U	40.0	P	12/16/2024	23:39	LB133968
	Selenium	20.0	+/-20.0	U	20.0	P	12/16/2024	23:39	LB133968

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Metals

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Sample ID	Analyte	Result ug/L	Acceptance Limit	Conc Qual	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB08	Silver	10.0	+/-10.0	U	10.0	P	12/16/2024	23:39	LB133968
	Thallium	40.0	+/-40.0	U	40.0	P	12/16/2024	23:39	LB133968
	Vanadium	40.0	+/-40.0	U	40.0	P	12/16/2024	23:39	LB133968
	Zinc	40.0	+/-40.0	U	40.0	P	12/16/2024	23:39	LB133968

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Instrument: CV1

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165653BL		**SOLID**		**Batch Number:**	**PB165653**		**Prep Date:**	**12/16/2024**	
	Mercury	0.013	<0.013	U	0.013	CV	12/16/2024	12:59	LB133960

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Metals
- 3b -
PREPARATION BLANK SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Instrument: P4

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB165640BL		**SOLID**		**Batch Number:**	**PB165640**		**Prep Date:**	**12/13/2024**	
	Aluminum	4.95	<4.95	U	4.95	P	12/16/2024	17:36	LB133968
	Antimony	2.48	<2.48	U	2.48	P	12/16/2024	17:36	LB133968
	Arsenic	0.99	<0.99	U	0.99	P	12/16/2024	17:36	LB133968
	Barium	4.95	<4.95	U	4.95	P	12/16/2024	17:36	LB133968
	Beryllium	0.30	<0.30	U	0.30	P	12/16/2024	17:36	LB133968
	Boron	4.95	<4.95	U	4.95	P	12/16/2024	17:36	LB133968
	Cadmium	0.30	<0.30	U	0.30	P	12/16/2024	17:36	LB133968
	Chromium	0.50	<0.50	U	0.50	P	12/16/2024	17:36	LB133968
	Cobalt	1.49	<1.49	U	1.49	P	12/16/2024	17:36	LB133968
	Copper	0.99	<0.99	U	0.99	P	12/16/2024	17:36	LB133968
	Iron	4.95	<4.95	U	4.95	P	12/16/2024	17:36	LB133968
	Lead	0.59	<0.59	U	0.59	P	12/16/2024	17:36	LB133968
	Manganese	0.99	<0.99	U	0.99	P	12/16/2024	17:36	LB133968
	Molybdenum	9.90	<9.90	U	9.90	P	12/16/2024	17:36	LB133968
	Nickel	1.98	<1.98	U	1.98	P	12/16/2024	17:36	LB133968
	Selenium	0.99	<0.99	U	0.99	P	12/16/2024	17:36	LB133968
	Silver	0.50	<0.50	U	0.50	P	12/16/2024	17:36	LB133968
	Thallium	1.98	<1.98	U	1.98	P	12/16/2024	17:36	LB133968
	Vanadium	1.98	<1.98	U	1.98	P	12/16/2024	17:36	LB133968
	Zinc	1.98	<1.98	U	1.98	P	12/16/2024	17:36	LB133968

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Metals
- 4 -
INTERFERENCE CHECK SAMPLE

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

ICS Source: EPA **Instrument ID:** P4

Sample ID	Analyte	Result ug/L	True Value ug/L	% Recovery	Low Limit (ug/L)	High Limit (ug/L)	Analysis Date	Analysis Time	Run Number
ICSA01	Aluminum	260000	255000	102	216000	294000	12/16/2024	16:19	LB133968
	Antimony	-2.84			-50	50	12/16/2024	16:19	LB133968
	Arsenic	-0.59			-20	20	12/16/2024	16:19	LB133968
	Barium	3.44	6.0	57	-94	106	12/16/2024	16:19	LB133968
	Beryllium	2.17			-6	6	12/16/2024	16:19	LB133968
	Boron	2.88	1000		-100	100	12/16/2024	16:19	LB133968
	Cadmium	0.76	1.0	76	-5	7	12/16/2024	16:19	LB133968
	Chromium	56.2	52.0	108	42	62	12/16/2024	16:19	LB133968
	Cobalt	2.10			-30	30	12/16/2024	16:19	LB133968
	Copper	-13.8	2.0	690	-18	22	12/16/2024	16:19	LB133968
	Iron	100000	101000	99	85600	116500	12/16/2024	16:19	LB133968
	Lead	9.55			-12	12	12/16/2024	16:19	LB133968
	Manganese	-0.46	7.0	6	-13	27	12/16/2024	16:19	LB133968
	Molybdenum	0.38	1000		-200	200	12/16/2024	16:19	LB133968
	Nickel	2.40	2.0	120	-38	42	12/16/2024	16:19	LB133968
	Selenium	-16.7			-20	20	12/16/2024	16:19	LB133968
	Silver	-6.96			-10	10	12/16/2024	16:19	LB133968
	Thallium	-9.72			-40	40	12/16/2024	16:19	LB133968
	Vanadium	5.91			-40	40	12/16/2024	16:19	LB133968
	Zinc	4.52			-40	40	12/16/2024	16:19	LB133968
ICSAB01	Aluminum	254000	247000	103	209000	285000	12/16/2024	16:53	LB133968
	Antimony	584	618	94	525	711	12/16/2024	16:53	LB133968
	Arsenic	107	104	103	88.4	120	12/16/2024	16:53	LB133968
	Barium	514	537	96	437	637	12/16/2024	16:53	LB133968
	Beryllium	533	495	108	420	570	12/16/2024	16:53	LB133968
	Boron	887	1000	89	850	1150	12/16/2024	16:53	LB133968
	Cadmium	1010	972	104	826	1120	12/16/2024	16:53	LB133968
	Chromium	561	542	104	460	624	12/16/2024	16:53	LB133968
	Cobalt	503	476	106	404	548	12/16/2024	16:53	LB133968
	Copper	460	511	90	434	588	12/16/2024	16:53	LB133968
	Iron	97300	99300	98	84400	114500	12/16/2024	16:53	LB133968
	Lead	55.9	49.0	114	37	61	12/16/2024	16:53	LB133968
	Manganese	504	507	99	430	584	12/16/2024	16:53	LB133968
	Molybdenum	928	1000	93	850	1150	12/16/2024	16:53	LB133968
	Nickel	989	954	104	810	1100	12/16/2024	16:53	LB133968
	Selenium	36.8	46.0	80	26	66	12/16/2024	16:53	LB133968
	Silver	189	201	94	170	232	12/16/2024	16:53	LB133968
	Thallium	81.3	108	75	68	148	12/16/2024	16:53	LB133968
	Vanadium	500	491	102	417	565	12/16/2024	16:53	LB133968
	Zinc	1060	952	111	809	1095	12/16/2024	16:53	LB133968

METAL QC DATA

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** P5277

contract: POWE02 **lab code:** CHEM **case no.:** P5277 **sas no.:** P5277

matrix: Solid **sample id:** P5277-03 **client id:** COMP-3AMS

Percent Solids for Sample: 89.9 **Spiked ID:** P5277-03MS **Percent Solids for Spike Sample:** 89.9

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.23		0.013	U	0.28	80		CV

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** P5277

contract: POWE02 **lab code:** CHEM **case no.:** P5277 **sas no.:** P5277

matrix: Solid **sample id:** P5277-03 **client id:** COMP-3AMSD

Percent Solids for Sample: 89.9 **Spiked ID:** P5277-03MSD **Percent Solids for Spike Sample:** 89.9

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Mercury	mg/Kg	80 - 120	0.26		0.013	U	0.28	92		CV

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metals
- 5a -
MATRIX SPIKE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** P5277

contract: POWE02 **lab code:** CHEM **case no.:** P5277 **sas no.:** P5277

matrix: Solid **sample id:** P5279-01 **client id:** ROCKAWAY-PARKMS

Percent Solids for Sample: 93.6 **Spiked ID:** P5279-01MS **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	642		599		87.9	48		P
Antimony	mg/Kg	75 - 125	64.0		0.34	J	35.2	181	N	P
Arsenic	mg/Kg	75 - 125	35.6		3.91		35.2	90		P
Barium	mg/Kg	75 - 125	24.6		17.5		8.8	81		P
Beryllium	mg/Kg	75 - 125	9.67		0.23	J	8.8	107		P
Boron	mg/Kg	75 - 125	10.0		4.71	U	13.2	76		P
Cadmium	mg/Kg	75 - 125	9.12		0.62		8.8	97		P
Chromium	mg/Kg	75 - 125	21.9		4.49		17.6	99		P
Cobalt	mg/Kg	75 - 125	9.98		1.45		8.8	97		P
Copper	mg/Kg	75 - 125	33.9		23.1		13.2	82		P
Iron	mg/Kg	75 - 125	5580		5990		130	-316		P
Lead	mg/Kg	75 - 125	109		72.8		44.0	82		P
Manganese	mg/Kg	75 - 125	38.3		31.7		8.8	75		P
Molybdenum	mg/Kg	75 - 125	34.2		0.52	J	17.6	191	N	P
Nickel	mg/Kg	75 - 125	25.9		4.58		22.0	97		P
Selenium	mg/Kg	75 - 125	75.6		0.94	U	87.9	86		P
Silver	mg/Kg	75 - 125	2.83		0.47	U	3.3	86		P
Thallium	mg/Kg	75 - 125	80.1		1.88	U	87.9	91		P
Vanadium	mg/Kg	75 - 125	18.6		5.72		13.2	98		P
Zinc	mg/Kg	75 - 125	126		128		8.8	-29		P

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metals
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: Kleinfelder **level:** low **sdg no.:** P5277

contract: POWE02 **lab code:** CHEM **case no.:** P5277 **sas no.:** P5277

matrix: Solid **sample id:** P5279-01 **client id:** ROCKAWAY-PARKMSD

Percent Solids for Sample: 93.6 **Spiked ID:** P5279-01MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Aluminum	mg/Kg	75 - 125	751		599		100	151		P
Antimony	mg/Kg	75 - 125	74.4		0.34	J	40.1	185	N	P
Arsenic	mg/Kg	75 - 125	41.2		3.91		40.1	93		P
Barium	mg/Kg	75 - 125	28.5		17.5		10.0	110		P
Beryllium	mg/Kg	75 - 125	10.9		0.23	J	10.0	107		P
Boron	mg/Kg	75 - 125	11.2		4.71	U	15.0	75	N	P
Cadmium	mg/Kg	75 - 125	10.4		0.62		10.0	98		P
Chromium	mg/Kg	75 - 125	25.2		4.49		20.1	103		P
Cobalt	mg/Kg	75 - 125	11.4		1.45		10.0	100		P
Copper	mg/Kg	75 - 125	38.9		23.1		15.0	105		P
Iron	mg/Kg	75 - 125	6490		5990		150	330		P
Lead	mg/Kg	75 - 125	125		72.8		50.2	103		P
Manganese	mg/Kg	75 - 125	44.0		31.7		10.0	123		P
Molybdenum	mg/Kg	75 - 125	39.7		0.52	J	20.1	195	N	P
Nickel	mg/Kg	75 - 125	29.6		4.58		25.1	100		P
Selenium	mg/Kg	75 - 125	87.4		0.94	U	100	87		P
Silver	mg/Kg	75 - 125	3.27		0.47	U	3.8	86		P
Thallium	mg/Kg	75 - 125	92.4		1.88	U	100	92		P
Vanadium	mg/Kg	75 - 125	21.4		5.72		15.0	105		P
Zinc	mg/Kg	75 - 125	146		128		10.0	181		P

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Metals
- 5b -
POST DIGEST SPIKE SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Matrix: Solid **Level:** LOW **Client ID:** ROCKAWAY-PARKA

Sample ID: P5279-01 **Spiked ID:** P5279-01A

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Antimony	mg/Kg	75 - 125	68.8		0.34	J	37.7	182		P
Boron	mg/Kg	75 - 125	10.6		4.71	U	14.1	75		P
Molybdenum	mg/Kg	75 - 125	37.0		0.52	J	18.8	194		P

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Matrix: Solid **Sample ID:** P5277-03 **Client ID:** COMP-3ADUP

Percent Solids for Sample: 89.9 **Duplicate ID** P5277-03DUP **Percent Solids for Spike Sample:** 89.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.013	U	0.013	U			CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Matrix: Solid **Sample ID:** P5277-03MS **Client ID:** COMP-3AMSD

Percent Solids for Sample: 89.9 **Duplicate ID** P5277-03MSD **Percent Solids for Spike Sample:** 89.9

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Mercury	mg/Kg	20	0.23		0.26		14		CV

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Matrix: Solid **Sample ID:** P5279-01 **Client ID:** ROCKAWAY-PARKDUP

Percent Solids for Sample: 93.6 **Duplicate ID** P5279-01DUP **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	599		624		4		P
Antimony	mg/Kg	20	0.34	J	0.35	J	1		P
Arsenic	mg/Kg	20	3.91		4.13		5		P
Barium	mg/Kg	20	17.5		17.9		2		P
Beryllium	mg/Kg	20	0.23	J	0.24	J	1		P
Boron	mg/Kg	20	4.71	U	4.83	U			P
Cadmium	mg/Kg	20	0.62		0.65		5		P
Chromium	mg/Kg	20	4.49		4.67		4		P
Cobalt	mg/Kg	20	1.45		1.53		5		P
Copper	mg/Kg	20	23.1		24.2		5		P
Iron	mg/Kg	20	5990		6250		4		P
Lead	mg/Kg	20	72.8		76.5		5		P
Manganese	mg/Kg	20	31.7		32.8		3		P
Molybdenum	mg/Kg	20	0.52	J	0.56	J	7		P
Nickel	mg/Kg	20	4.58		4.81		5		P
Selenium	mg/Kg	20	0.94	U	0.97	U			P
Silver	mg/Kg	20	0.47	U	0.48	U			P
Thallium	mg/Kg	20	1.88	U	1.93	U			P
Vanadium	mg/Kg	20	5.72		6.02		5		P
Zinc	mg/Kg	20	128		134		5		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

- 6 -
DUPLICATE SAMPLE SUMMARY

Client: Kleinfelder **Level:** LOW **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Matrix: Solid **Sample ID:** P5279-01MS **Client ID:** ROCKAWAY-PARKMSD

Percent Solids for Sample: 93.6 **Duplicate ID** P5279-01MSD **Percent Solids for Spike Sample:** 93.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Aluminum	mg/Kg	20	642		751		16		P
Antimony	mg/Kg	20	64.0		74.4		15		P
Arsenic	mg/Kg	20	35.6		41.2		15		P
Barium	mg/Kg	20	24.6		28.5		15		P
Beryllium	mg/Kg	20	9.67		10.9		12		P
Boron	mg/Kg	20	10.0		11.2		11		P
Cadmium	mg/Kg	20	9.12		10.4		13		P
Chromium	mg/Kg	20	21.9		25.2		14		P
Cobalt	mg/Kg	20	9.98		11.4		13		P
Copper	mg/Kg	20	33.9		38.9		14		P
Iron	mg/Kg	20	5580		6490		15		P
Lead	mg/Kg	20	109		125		14		P
Manganese	mg/Kg	20	38.3		44.0		14		P
Molybdenum	mg/Kg	20	34.2		39.7		15		P
Nickel	mg/Kg	20	25.9		29.6		13		P
Selenium	mg/Kg	20	75.6		87.4		14		P
Silver	mg/Kg	20	2.83		3.27		14		P
Thallium	mg/Kg	20	80.1		92.4		14		P
Vanadium	mg/Kg	20	18.6		21.4		14		P
Zinc	mg/Kg	20	126		146		15		P

"A control limit of ±20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165640BS							
Aluminum	mg/Kg	99.0	95.8		97	80 - 120	P
Antimony	mg/Kg	39.6	35.7		90	80 - 120	P
Arsenic	mg/Kg	39.6	35.7		90	80 - 120	P
Barium	mg/Kg	9.9	9.50		96	80 - 120	P
Beryllium	mg/Kg	9.9	11.4		115	80 - 120	P
Boron	mg/Kg	14.9	15.6		105	80 - 120	P
Cadmium	mg/Kg	9.9	9.72		98	80 - 120	P
Chromium	mg/Kg	19.8	20.5		104	80 - 120	P
Cobalt	mg/Kg	9.9	9.73		98	80 - 120	P
Copper	mg/Kg	14.9	14.7		99	80 - 120	P
Iron	mg/Kg	150	140		93	80 - 120	P
Lead	mg/Kg	49.5	48.5		98	80 - 120	P
Manganese	mg/Kg	9.9	10.4		105	80 - 120	P
Molybdenum	mg/Kg	19.8	18.8		95	80 - 120	P
Nickel	mg/Kg	24.8	24.5		99	80 - 120	P
Selenium	mg/Kg	99.0	89.3		90	80 - 120	P
Silver	mg/Kg	3.7	3.70		100	80 - 120	P
Thallium	mg/Kg	99.0	97.5		98	80 - 120	P
Vanadium	mg/Kg	14.9	15.1		101	80 - 120	P
Zinc	mg/Kg	9.9	9.76		99	80 - 120	P

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Metals

LABORATORY CONTROL SAMPLE SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB165653BS							
Mercury	mg/Kg	0.25	0.20		81	80 - 120	CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

COMP-3AL

Lab Name: Chemtech Consulting Group **Contract:** POWE02

Lab Code: CHEM **Lb No.:** lb133960 **Lab Sample ID :** P5277-03L **SDG No.:** P5277

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Mercury	0.013	U	0.066	U			CV

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Metals

-9 -

ICP SERIAL DILUTIONS

SAMPLE NO.

ROCKAWAY-PARKL

Lab Name: Chemtech Consulting Group **Contract:** POWE02

Lab Code: CHEM **Lb No.:** lb133968 **Lab Sample ID :** P5279-01L **SDG No.:** P5277

Matrix (soil/water): Solid **Level (low/med):** LOW

Concentration Units: mg/Kg

Analyte	Initial Sample Result (I)	C	Serial Dilution Result (S)	C	% Difference	Q	M
Aluminum	599		616		3		P
Antimony	0.34	J	11.8	U	100.0		P
Arsenic	3.91		3.30	J	16		P
Barium	17.5		18.2	J	4		P
Beryllium	0.23	J	0.25	J	8		P
Boron	4.71	U	23.5	U			P
Cadmium	0.62		0.57	J	6		P
Chromium	4.49		4.83		8		P
Cobalt	1.45		1.49	J	3		P
Copper	23.1		24.7		7		P
Iron	5990		6110		2		P
Lead	72.8		77.2		6		P
Manganese	31.7		32.7		3		P
Molybdenum	0.52	J	47.1	U	100.0		P
Nickel	4.58		4.65	J	1		P
Selenium	0.94	U	4.71	U			P
Silver	0.47	U	2.35	U			P
Thallium	1.88	U	9.41	U			P
Vanadium	5.72		6.01	J	5		P
Zinc	128		135		5		P

METAL PREPARATION & INSTRUMENT DATA

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Al	Ca	Fe	Mg	Ag
Aluminum	396.100	0.0000000	-0.0002060	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	-0.0000440	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000930	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0007850	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	-0.0000920	0.0000000	0.0000380	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	-0.0001440	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	-0.0001490	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0001050	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: As	Ba	Be	Cd	Co
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0002870
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0000000	0.0009530
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	-0.0039600
Lead	220.353	0.0000000	0.0003170	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	-0.0003570
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0054900
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Cr	Cu	K	Mn	Mo
Aluminum	396.100	0.0000000	0.0000000	0.0000590	0.0000000	0.0396900
Antimony	206.833	0.0122000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	-0.0029000	0.0000000	0.0000000	0.0000000	0.0004900
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	-0.0000710	-0.0003400
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000070	0.0002200	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	-0.0007860
Copper	224.700	0.0000000	0.0000000	0.0000000	0.0006510	0.0020500
Iron	240.488	0.0000000	0.0000000	0.0000730	0.0000000	-0.0015250
Lead	220.353	0.0000000	0.0000000	0.0000000	0.0001400	-0.0008600
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0007460	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	-0.0000120
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0017400	-0.0100400
Vanadium	292.402	-0.0025100	0.0000000	0.0000000	0.0000000	-0.0072000
Zinc	213.800	0.0000000	0.0009010	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Na	Ni	Pb	Sb	Se
Aluminum	396.100	0.0000000	0.0000000	0.0012800	0.0000000	0.0000000
Antimony	206.833	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cobalt	228.616	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	-0.0047000	0.0036100	0.0000000	0.0000000
Iron	240.488	0.0000000	-0.0017000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	0.0006580	0.0000000	0.0000000	0.0001290
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0003330	0.0000000	0.0000000
Silver	328.068	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Vanadium	292.402	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0067600	0.0000000	0.0000000	0.0000000

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Metals
- 11 -
ICP INTERELEMENT CORRECTION FACTORS

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Case No.:** P5277 **SAS No.:** P5277

Instrument ID: **Date:**

Interelement Correction Factors (apparent ppb analyte/ppm interferent)

Analyte	Wave-Length (nm)	ICP Interelement Correction Factors For: Sn	Ti	Tl	V	Zn
Aluminum	396.100	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Antimony	206.833	-0.0035600	-0.0007970	0.0000000	-0.0018900	0.0000000
Arsenic	193.759	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Barium	493.409	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Beryllium	234.861	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Cadmium	226.502	0.0000000	0.0000630	0.0001280	0.0000000	0.0000000
Chromium	267.716	0.0000000	0.0000000	0.0000000	0.0001110	0.0000000
Cobalt	228.616	0.0000000	0.0018800	0.0000000	0.0000000	0.0000000
Copper	224.700	0.0000000	0.0003840	0.0000000	0.0000000	0.0000000
Iron	240.488	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Lead	220.353	0.0000000	-0.0003610	0.0000000	0.0000000	0.0000000
Manganese	257.610	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Nickel	231.604	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Selenium	196.090	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000
Silver	328.068	0.0000000	-0.0007420	0.0000000	0.0000000	0.0000000
Thallium	190.856	0.0000000	-0.0039700	0.0000000	-0.0115600	0.0000000
Vanadium	292.402	0.0000000	0.0005320	0.0000000	0.0000000	0.0000000
Zinc	213.800	0.0000000	0.0000000	0.0000000	0.0000000	0.0000000

METAL PREPARATION & ANALYICAL SUMMARY

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Method:**

Case No.: P5277 **SAS No.:** P5277

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165640**						
P5277-01	COMP-1A	SAM	SOLID	12/13/2024	2.10	100.0	88.50
P5277-02	COMP-2A	SAM	SOLID	12/13/2024	2.39	100.0	78.90
P5277-03	COMP-3A	SAM	SOLID	12/13/2024	2.45	100.0	89.90
P5279-01DUP	ROCKAWAY-PARKDUP	DUP	SOLID	12/13/2024	2.21	100.0	93.60
P5279-01MS	ROCKAWAY-PARKMS	MS	SOLID	12/13/2024	2.43	100.0	93.60
P5279-01MSD	ROCKAWAY-PARKMSD	MSD	SOLID	12/13/2024	2.13	100.0	93.60
PB165640BL	PB165640BL	MB	SOLID	12/13/2024	2.02	100.0	100.00
PB165640BS	PB165640BS	LCS	SOLID	12/13/2024	2.02	100.0	100.00

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Metals
- 13 -
SAMPLE PREPARATION SUMMARY

Client: Kleinfelder **SDG No.:** P5277

Contract: POWE02 **Lab Code:** CHEM **Method:**

Case No.: P5277 **SAS No.:** P5277

Sample ID	Client ID	Sample Type	Matrix	Prep Date	Initial Sample Size(g)	Final Sample Volume (mL)	Percent Solids
Batch Number:	**PB165653**						
P5277-01	COMP-1A	SAM	SOLID	12/16/2024	0.51	35.0	88.50
P5277-02	COMP-2A	SAM	SOLID	12/16/2024	0.57	35.0	78.90
P5277-03	COMP-3A	SAM	SOLID	12/16/2024	0.59	35.0	89.90
P5277-03DUP	COMP-3ADUP	DUP	SOLID	12/16/2024	0.58	35.0	89.90
P5277-03MS	COMP-3AMS	MS	SOLID	12/16/2024	0.56	35.0	89.90
P5277-03MSD	COMP-3AMSD	MSD	SOLID	12/16/2024	0.56	35.0	89.90
PB165653BL	PB165653BL	MB	SOLID	12/16/2024	0.55	35.0	100.00
PB165653BS	PB165653BS	LCS	SOLID	12/16/2024	0.56	35.0	100.00

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metals
- 14 -
ANALYSIS RUN LOG

Client: Kleinfelder **Contract:** POWE02

Lab code: CHEM **Case no.:** P5277 **Sas no.:** P5277 **Sdg no.:** P5277

Instrument id number: **Method:** **Run number:** LB133960

Start date: 12/16/2024 **End date:** 12/16/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1110	HG
S0.2	S0.2	1	1112	HG
S2.5	S2.5	1	1115	HG
S5	S5	1	1117	HG
S7.5	S7.5	1	1119	HG
S10	S10	1	1130	HG
ICV19	ICV19	1	1140	HG
ICB19	ICB19	1	1145	HG
CCV29	CCV29	1	1151	HG
CCB29	CCB29	1	1155	HG
CRA	CRA	1	1211	HG
PB165653BL	PB165653BL	1	1259	HG
PB165653BS	PB165653BS	1	1304	HG
P5277-01	COMP-1A	1	1412	HG
P5277-02	COMP-2A	1	1414	HG
P5277-03	COMP-3A	1	1416	HG
CCV30	CCV30	1	1419	HG
CCB30	CCB30	1	1424	HG
P5277-03DUP	COMP-3ADUP	1	1428	HG
P5277-03MS	COMP-3AMS	1	1431	HG
P5277-03MSD	COMP-3AMSD	1	1436	HG
P5277-03L	COMP-3AL	5	1458	HG
CCV31	CCV31	1	1526	HG
CCB31	CCB31	1	1528	HG

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metals
- 14 -
ANALYSIS RUN LOG

Client: Kleinfelder **Contract:** POWE02

Lab code: CHEM **Case no.:** P5277 **Sas no.:** P5277 **Sdg no.:** P5277

Instrument id number: **Method:** **Run number:** LB133968

Start date: 12/16/2024 **End date:** 12/16/2024

Lab sample id.	Client Sample Id	d/f	Time	Parameter list
S0	S0	1	1536	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S1	S1	1	1540	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S2	S2	1	1545	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S3	S3	1	1549	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S4	S4	1	1553	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
S5	S5	1	1557	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICV01	ICV01	1	1602	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
LLICV01	LLICV01	1	1606	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICB01	ICB01	1	1610	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CRI01	CRI01	1	1614	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSA01	ICSA01	1	1619	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
ICSAB01	ICSAB01	1	1653	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV01	CCV01	1	1657	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB01	CCB01	1	1701	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB165640BL	PB165640BL	1	1736	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV02	CCV02	1	1758	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB02	CCB02	1	1802	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV03	CCV03	1	1848	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB03	CCB03	1	1852	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5277-01	COMP-1A	1	1915	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5277-02	COMP-2A	1	1919	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5277-03	COMP-3A	1	1924	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5279-01DUP	ROCKAWAY-PARKDUP	1	1932	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5279-01L	ROCKAWAY-PARKL	5	1937	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5279-01MS	ROCKAWAY-PARKMS	1	1941	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV04	CCV04	1	1951	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB04	CCB04	1	1957	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5279-01MSD	ROCKAWAY-PARKMSD	1	2001	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
P5279-01A	ROCKAWAY-PARKA	1	2005	B,Mo,Sb
CCV05	CCV05	1	2049	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB05	CCB05	1	2053	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV06	CCV06	1	2147	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB06	CCB06	1	2151	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
PB165640BS	PB165640BS	1	2234	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV07	CCV07	1	2302	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB07	CCB07	1	2306	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCV08	CCV08	1	2335	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn
CCB08	CCB08	1	2339	Ag,Al,As,B,Ba,Be,Cd,Co,Cr,Cu,Fe,Mn,Mo,Ni,Pb,Sb,Se,Tl,V,Zn

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LAB CHRONICLE

OrderID:	P5277	**OrderDate:**	12/13/2024 11:44:00 AM
Client:	Kleinfelder	**Project:**	Tanner G. Duckrey Public School
Contact:	Mark Warchol	**Location:**	L41,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5277-01	**COMP-1A**	**SOIL**			**12/12/24 10:40**			**12/13/24**
			Ammonia	SM4500-NH3		12/16/24	12/17/24 10:20	
			Anions Group1	9056A			12/13/24 17:21	
			Hexavalent Chromium	7196A		12/17/24	12/17/24 15:15	
			Trivalent Chromium	6010D			12/16/24 19:15	
P5277-02	**COMP-2A**	**SOIL**			**12/12/24 11:05**			**12/13/24**
			Ammonia	SM4500-NH3		12/16/24	12/17/24 10:20	
			Anions Group1	9056A			12/13/24 18:25	
			Hexavalent Chromium	7196A		12/17/24	12/17/24 15:20	
			Trivalent Chromium	6010D			12/16/24 19:19	
P5277-03	**COMP-3A**	**SOIL**			**12/12/24 11:45**			**12/13/24**
			Ammonia	SM4500-NH3		12/16/24	12/17/24 10:20	
			Anions Group1	9056A			12/13/24 18:47	
			Hexavalent Chromium	7196A		12/17/24	12/17/24 15:21	
			Trivalent Chromium	6010D			12/16/24 19:24	

SAMPLE DATA

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Report of Analysis

Client:	Kleinfelder	Date Collected:	12/12/24 10:40
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-1A	SDG No.:	P5277
Lab Sample ID:	P5277-01	Matrix:	SOIL
		% Solid:	88.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	0.99	U	1	0.99	5.50	mg/Kg	12/16/24 09:35	12/17/24 10:20	SM 4500-NH3 B plus G-11
Chloride	1.70	J	1	0.11	13.5	mg/Kg		12/13/24 17:21	9056A
Fluoride	5.60	J	1	0.43	9.00	mg/Kg		12/13/24 17:21	9056A
Sulfate	9.30	J	1	0.69	67.5	mg/Kg		12/13/24 17:21	9056A
Hexavalent Chromium	0.089	U	1	0.089	0.45	mg/Kg	12/17/24 12:00	12/17/24 15:15	7196A
Trivalent Chromium	24.0		1	0.56	0.56	mg/Kg		12/16/24 19:15	6010D

Comments:

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
H = Sample Analysis Out Of Hold Time

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:	Kleinfelder	Date Collected:	12/12/24 11:05
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-2A	SDG No.:	P5277
Lab Sample ID:	P5277-02	Matrix:	SOIL
		% Solid:	78.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	1.10	U	1	1.10	6.30	mg/Kg	12/16/24 09:35	12/17/24 10:20	SM 4500-NH3 B plus G-11
Chloride	7.30	J	1	0.12	15.1	mg/Kg		12/13/24 18:25	9056A
Fluoride	6.70	J	1	0.48	10.1	mg/Kg		12/13/24 18:25	9056A
Sulfate	14.9	J	1	0.77	75.4	mg/Kg		12/13/24 18:25	9056A
Hexavalent Chromium	0.10	U	1	0.10	0.51	mg/Kg	12/17/24 12:00	12/17/24 15:20	7196A
Trivalent Chromium	42.0		1	0.63	0.63	mg/Kg		12/16/24 19:19	6010D

Comments:

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
H = Sample Analysis Out Of Hold Time

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:	Kleinfelder	Date Collected:	12/12/24 11:45
Project:	Tanner G. Duckrey Public School	Date Received:	12/13/24
Client Sample ID:	COMP-3A	SDG No.:	P5277
Lab Sample ID:	P5277-03	Matrix:	SOIL
		% Solid:	89.9

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Ammonia as N	0.97	U	1	0.97	5.40	mg/Kg	12/16/24 09:35	12/17/24 10:20	SM 4500-NH3 B plus G-11
Chloride	4.60	J	1	0.11	13.3	mg/Kg		12/13/24 18:47	9056A
Fluoride	4.30	J	1	0.42	8.90	mg/Kg		12/13/24 18:47	9056A
Sulfate	18.3	J	1	0.68	66.6	mg/Kg		12/13/24 18:47	9056A
Hexavalent Chromium	0.087	U	1	0.087	0.44	mg/Kg	12/17/24 12:00	12/17/24 15:21	7196A
Trivalent Chromium	33.6		1	0.56	0.56	mg/Kg		12/16/24 19:24	6010D

Comments:

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
H = Sample Analysis Out Of Hold Time
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

QC RESULT SUMMARY

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Initial and Continuing Calibration Verification

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **RunNo.:** LB133944

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: **ICV1**						
Bromide	mg/L	10	10	100	90-110	11/18/2024
Chloride	mg/L	3	3	100	90-110	11/18/2024
Fluoride	mg/L	2	2	100	90-110	11/18/2024
Nitrite	mg/L	3	3	100	90-110	11/18/2024
Nitrate	mg/L	2.5	2.5	100	90-110	11/18/2024
Sulfate	mg/L	14.6	15	97	90-110	11/18/2024
Orthophosphate as P	mg/L	5	5	100	90-110	11/18/2024
Sample ID: **CCV1**						
Bromide	mg/L	10.7	10	107	90-110	12/13/2024
Chloride	mg/L	3.2	3	107	90-110	12/13/2024
Fluoride	mg/L	2.1	2	105	90-110	12/13/2024
Nitrite	mg/L	3.2	3	107	90-110	12/13/2024
Nitrate	mg/L	2.6	2.5	104	90-110	12/13/2024
Sulfate	mg/L	15	15	100	90-110	12/13/2024
Orthophosphate as P	mg/L	5.2	5	104	90-110	12/13/2024
Sample ID: **CCV2**						
Bromide	mg/L	10.7	10	107	90-110	12/13/2024
Chloride	mg/L	3.2	3	107	90-110	12/13/2024
Fluoride	mg/L	2.1	2	105	90-110	12/13/2024
Nitrite	mg/L	3.2	3	107	90-110	12/13/2024
Nitrate	mg/L	2.6	2.5	104	90-110	12/13/2024
Sulfate	mg/L	15.2	15	101	90-110	12/13/2024
Orthophosphate as P	mg/L	5.4	5	108	90-110	12/13/2024

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Initial and Continuing Calibration Verification

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**RunNo.:**	LB133973

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Ammonia as N	mg/L	0.96	1	96	90-110	12/17/2024
Sample ID: CCV1						
Ammonia as N	mg/L	0.98	1	98	90-110	12/17/2024
Sample ID: CCV2						
Ammonia as N	mg/L	0.97	1	97	90-110	12/17/2024

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Initial and Continuing Calibration Verification

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**RunNo.:**	LB133981

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	12/17/2024
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	12/17/2024
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.503	0.5	101	90-110	12/17/2024

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

Initial and Continuing Calibration Blank Summary

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **RunNo.:** LB133944

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	11/18/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/18/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	11/18/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	11/18/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	11/18/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	11/18/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	11/18/2024
Sample ID: CCB1							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	12/13/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/13/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	12/13/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/13/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	12/13/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	12/13/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	12/13/2024
Sample ID: CCB2							
Bromide	mg/L	< 1.0000	1.0000	U	0.034	2	12/13/2024
Chloride	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/13/2024
Fluoride	mg/L	< 0.2000	0.2000	U	0.057	0.4	12/13/2024
Nitrite	mg/L	< 0.3000	0.3000	U	0.011	0.6	12/13/2024
Nitrate	mg/L	< 0.2500	0.2500	U	0.0034	0.5	12/13/2024
Sulfate	mg/L	< 1.5000	1.5000	U	0.032	3	12/13/2024
Orthophosphate as P	mg/L	< 0.5000	0.5000	U	0.079	1	12/13/2024

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Initial and Continuing Calibration Blank Summary

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**RunNo.:**	LB133973

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/17/2024
Sample ID: CCB1							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/17/2024
Sample ID: CCB2							
Ammonia as N	mg/L	< 0.0500	0.0500	U	0.045	0.1	12/17/2024

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Initial and Continuing Calibration Blank Summary

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**RunNo.:**	LB133981

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	12/17/2024
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	12/17/2024
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0027	0.01	12/17/2024

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Preparation Blank Summary

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB133944BLS							
Bromide	mg/Kg	< 20.0000	20.0000	U	0.49	40	12/13/2024
Chloride	mg/Kg	< 6.0000	6.0000	U	0.096	12	12/13/2024
Fluoride	mg/Kg	< 4.0000	4.0000	U	0.38	8	12/13/2024
Nitrite	mg/Kg	< 6.0000	6.0000	U	0.19	12	12/13/2024
Nitrate	mg/Kg	< 5.0000	5.0000	U	0.089	10	12/13/2024
Sulfate	mg/Kg	< 30.0000	30.0000	U	0.61	60	12/13/2024
Orthophosphate as P	mg/Kg	< 10.0000	10.0000	U	0.24	20	12/13/2024
Sample ID: PB165645BL							
Ammonia as N	mg/Kg	< 2.5000	2.5000	U	0.9	5	12/17/2024
Sample ID: PB165660BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.079	0.4	12/17/2024

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Matrix Spike Summary

Client: Kleinfelder
SDG No.: P5277
Project: Tanner G. Duckrey Public School
Sample ID: P5277-01
Client ID: COMP-1AMS
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	58.0		0.99	U	55.4	1	105		12/17/2024
Bromide	mg/Kg	80-120	223		0.55	U	220	1	101		12/13/2024
Chloride	mg/Kg	80-120	69.1		1.70	J	67.4	1	100		12/13/2024
Fluoride	mg/Kg	80-120	47.9		5.60	J	44.9	1	94		12/13/2024
Nitrite	mg/Kg	80-120	67.0		0.21	U	67.4	1	99		12/13/2024
Nitrate	mg/Kg	80-120	55.1		0.10	U	56.2	1	98		12/13/2024
Sulfate	mg/Kg	80-120	324		9.30	J	340	1	93		12/13/2024
Orthophosphate as P	mg/Kg	80-120	98.9		0.27	U	110	1	90		12/13/2024

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Matrix Spike Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1AMS
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1430		0.089	U	1450	40	99		12/17/2024

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Matrix Spike Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1AMS
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	44.9		0.089	U	45.2	2	99		12/17/2024

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Matrix Spike Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1AMSD
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Ammonia as N	mg/Kg	75-125	54.6		0.99	U	54.9	1	100		12/17/2024
Bromide	mg/Kg	80-120	223		0.55	U	220	1	101		12/13/2024
Chloride	mg/Kg	80-120	69.1		1.70	J	67.4	1	100		12/13/2024
Fluoride	mg/Kg	80-120	46.7		5.60	J	44.9	1	92		12/13/2024
Nitrite	mg/Kg	80-120	67.2		0.21	U	67.4	1	100		12/13/2024
Nitrate	mg/Kg	80-120	55.2		0.10	U	56.2	1	98		12/13/2024
Sulfate	mg/Kg	80-120	319		9.30	J	340	1	91		12/13/2024
Orthophosphate as P	mg/Kg	80-120	95.9		0.27	U	110	1	87		12/13/2024

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Matrix Spike Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1AMS
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	38.8		0.089	U	45.2	2	86		12/17/2024

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Duplicate Sample Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1ADUP
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ammonia as N	mg/Kg	+/-20	0.99	U	0.99	U	1	0		12/17/2024
Hexavalent Chromium	mg/Kg	+/-20	0.089	U	0.089	U	1	0		12/17/2024

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Duplicate Sample Summary

Client: Kleinfelder
Project: Tanner G. Duckrey Public School
Client ID: COMP-1AMSD
SDG No.: P5277
Sample ID: P5277-01
Percent Solids for Spike Sample: 88.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Bromide	mg/Kg	+/-15	223		223		1	0		12/13/2024
Chloride	mg/Kg	+/-15	69.1		69.1		1	0		12/13/2024
Nitrate	mg/Kg	+/-15	55.1		55.2		1	0		12/13/2024
Nitrite	mg/Kg	+/-15	67.0		67.2		1	0		12/13/2024
Sulfate	mg/Kg	+/-15	324		319		1	2		12/13/2024
Fluoride	mg/Kg	+/-15	47.9		46.7		1	3		12/13/2024
Orthophosphate as P	mg/Kg	+/-15	98.9		95.9		1	3		12/13/2024
Ammonia as N	mg/Kg	+/-20	58.0		54.6		1	6		12/17/2024

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Laboratory Control Sample Summary

Client: Kleinfelder **SDG No.:** P5277

Project: Tanner G. Duckrey Public School **Run No.:** LB133944

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID LB133944BSS								
Bromide	mg/Kg	200	214		107	1	90-110	12/13/2024
Chloride	mg/Kg	60	63.5		106	1	90-110	12/13/2024
Fluoride	mg/Kg	40	41.6		104	1	90-110	12/13/2024
Nitrite	mg/Kg	60	64.3		107	1	90-110	12/13/2024
Nitrate	mg/Kg	50	52.9		106	1	90-110	12/13/2024
Sulfate	mg/Kg	300	301		100	1	90-110	12/13/2024
Orthophosphate as P	mg/Kg	100	105		105	1	90-110	12/13/2024

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Laboratory Control Sample Summary

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**Run No.:**	LB133973

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165645BS								
Ammonia as N	mg/Kg	50	47.8		96	1	90-110	12/17/2024

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Laboratory Control Sample Summary

Client:	Kleinfelder	**SDG No.:**	P5277
Project:	Tanner G. Duckrey Public School	**Run No.:**	LB133981

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB165660BS								
Hexavalent Chromium	mg/Kg	20	20.1		101	1	84-110	12/17/2024

SHIPPING DOCUMENTS

CHEMTECH

CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5277
QUOTE NO.
COC Number 2042290

11
11.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 2 S Gold Drive
CITY Hamilton STATE: NJ ZIP: 08641
ATTENTION: Mark Warchol
PHONE: 484-883-3892 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 24004341.001A LOCATION: Philadelphia PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3842 FAX:

CLIENT BILLING INFORMATION

BILL TO: Same PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced
- ☐ US EPA CLP
- ☐ NYS ASP A
- ☐ NYS ASP B
- ☐ Other

ANALYSIS

1. VADEP Hist. Fill Clean Fill Parameters
2.
3.
4.
5.
6.
7.
8.
9.

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1 (E)	2	3	4	5	6	7	8	9	COMMENTS
1.	COMP-1A	Soil	✓		12/12/24	10:40	3	✓									
2.	COMP-2A	↓	↓		↓	11:05	↓	↓									
3.	COMP-3A	↓	↓		↓	11:45	↓	↓									
4.	SB-13	↓		✓	↓	10:10	1	↓									
5.	SB-14	↓		↓	↓	10:20	↓	↓									
6.	SB-15	↓		↓	↓	10:25	↓	↓									
7.	SB-16	↓		↓	↓	10:35	↓	↓									
8.	SB-17	↓		↓	↓	10:45	↓	↓									
9.	SB-18	↓		↓	↓	10:50	↓	↓									
10.	SB-19	↓		↓	↓	10:55	↓	↓									

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1. [signature]	12/12/24 15:00	1.
2. FedEx	12-13-24 0920	2. [signature]
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C °C
Comments: Put grabs on hold until further notice

Page 1 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

CHEMTECH
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

CHEMTECH PROJECT NO. P5277
QUOTE NO.
COC Number 2041891

11
11.1

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: Kleinfelder
ADDRESS: 25 Gold Drive
CITY Hamilton STATE: NJ ZIP: 08691
ATTENTION: Mark Warchol
PHONE: 484-883-3890 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Duckrey School
PROJECT NO.: 24004341.001A LOCATION: Philadelphia, PA
PROJECT MANAGER: Mark Warchol
e-mail: mwarchol@kleinfelder.com
PHONE: 484-883-3892 FAX:

CLIENT BILLING INFORMATION

BILL TO: PO#:
ADDRESS: Same
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 5 DAYS*
HARDCOPY (DATA PACKAGE): 5 DAYS*
EDD: 5 DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only)
- ☑ Level 2 (Results + QC)
- ☐ Level 3 (Results + QC + Raw Data)
- ☐ EDD FORMAT
- ☐ Level 4 (QC + Full Raw Data)
- ☐ NJ Reduced ☐ US EPA CLP
- ☐ NYS ASP A ☐ NYS ASP B
- ☐ Other

ANALYSIS

PADEP HSF Full TCL + Full E-II Parameters

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
								E									← Specify Preservatives: A-HCl, B-HN03, C-H2SO4, D-NaOH, E-ICE, F-OTHER
1.	SB-20	Soil		✓	12/12/24	11:00	1	✓									
2.	SB-21					11:15											
3.	SB-22					11:25											
4.	SB-23					11:30											
5.	SB-24					11:40											
6.																	
7.																	
8.																	
9.																	
10.																	

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.	12/12/24 15:00	1.
2. FedEx	12-13-24 11:20	2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 4.3°C
Comments: Put grabs on hold until further notice

Page 2 of 2

CLIENT: ☐ Hand Delivered ☑ Other FedEx
CHEMTECH: ☐ Picked Up ☐ Field Sampling

Shipment Complete ☐ YES ☐ NO

WHITE - CHEMTECH COPY FOR RETURN TO CLIENT YELLOW - CHEMTECH COPY PINK - SAMPLER COPY

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

Alliance TECHNICAL GROUP
284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
Fax : 908 789 8922

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	P5277 POWE02	**Order Date :**	12/13/2024 11:44:00 AM	**Project Mgr :**	
Client Name :	Kleinfelder	**Project Name :**	Tanner G. Duckrey Public S	**Report Type :**	Results+QC
Client Contact :	Mark Warchol	**Receive DateTime :**	12/13/2024 11:20:00 AM	**EDD Type :**	EXCEL NOCLEANUP
Invoice Name :	Kleinfelder	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Mark Warchol			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
P5277-01	COMP-1A	Solid	12/12/2024	10:40					5 Bus. Days
					VOCMS Group1		8260D	~~3 Bus. Days~~	
P5277-02	COMP-2A	Solid	12/12/2024	11:05					5 Bus. Days
					VOCMS Group1		8260D	~~3 Bus. Days~~	
P5277-03	COMP-3A	Solid	12/12/2024	11:45					5 Bus. Days
					VOCMS Group1		8260D	~~3 Bus. Days~~	

Relinguished By : _____
Date / Time : 12/13/24 1212

Received By : _____
Date / Time : 12/13/24 12:12

Storage Area : **VOA Refridgerator Room**