



Ensolum

April 09, 2026

Jeremy Espinoza

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Project Name - KMG - Kugel V18-4 WH

Project Number - 09A1417811

Attached are your analytical results for KMG - Kugel V18-4 WH received by Origins Laboratory March 18, 2026. This project is associated with Origins project number DJC0554-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

The laboratory is TNI accredited by the Utah DHHS ELAP under certificate number CO010822024.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory
303.433.1322
projectmanager@originslab.com





Ensolium
11049 W 44th Avenue, Suite 103
Wheat Ridge CO 80033

Jeremy Espinoza
Project Number: 09A1417811
Project: KMG - Kugel V18-4 WH

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
AST01@0.5'	DJC0554-01	Soil	March 18, 2026 14:24	03/18/2026 16:39
SEP01-INLET@3'	DJC0554-02	Soil	March 18, 2026 14:57	03/18/2026 16:39
SEP01-OUTLET@3'	DJC0554-03	Soil	March 18, 2026 14:54	03/18/2026 16:39
SEP-Riser(12-18,18-4)@3'	DJC0554-04	Soil	March 18, 2026 14:59	03/18/2026 16:39

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS

LABORATORY

DT00554

Page 1 of 1

Client: Ensolium

Project Manager: Serena Espinoza

Key: W=Water

Address: _____

Project Name: KAGEL18-18-34-S-RailHP

W=Water

Telephone Number: _____

Project Number: 0041417812

GW=Groundwater

Email Address: _____

Collected By: EZ

SW=Surface Water

Invoice/Billing Info: _____

Waste Water

WW=Waste Water

S=Soil | SO=Solid | O=Oil | A=Air | G=Gas | UNP=Unpres | HCl=Hydrochloric | HNO3=Nitric | H2SO4=Sulfuric | NaOH=Sodium Hydroxide

#	Sample ID	Date Sampled	Time Sampled	# of Containers	Matrix	Preservative	Analysis				Comments								
							Full List												
1	ASTOIED.S.	3/18/26	1429	3	S	UNP	X												
2	DEPOL-WLETES.		1457	1															
3	SEPOL-DUTLETES.		1454	1															
4	SEP-RISER(12-18-18-403)		1459	1															
5																			
6																			
7																			
8																			
9																			
10																			

Relinquished By: Shirabeth S. Date: 3.18.26 Time: 16:39 Received By: NLM Date: 05/18/26 Time: 16:39

Temp Received - 4, 9 Received On Ice? Yes No

Turnaround Time 48 Hr 72 DAY SAME DAY 24 Hr Standard

Sample Receipt Checklist

Enthalpy Work Order: DJCOSS4 Client: EnSolum
 Checklist Completed by: Samuel JL Client Project ID: Kugel 12-18, 18-34-3
 Date/Time Completed: 03/19/26 Shipped Via: HS
 Matrix(es) Received: 2 Soil/Solid Water: _____ Other: _____
 Thermometer ID(s): T-204 _____
 Temperature as read (°C): 3.8 _____
 Temperature as reported (°C): 4.9 _____

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C(1)?	<input checked="" type="checkbox"/>			
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Are custody seals present on each sample container?(if so, document in comments if they are signed and dated, broken or intact)		<input checked="" type="checkbox"/>		
Were all samples received intact(1)?	<input checked="" type="checkbox"/>			
Was adequate sample volume provided(1)?	<input checked="" type="checkbox"/>			
Are short holding time analytes or samples with HTs due within 48 hours present(1)?		<input checked="" type="checkbox"/>		
Is a chain-of-custody (COC) present and filled out completely(1)?	<input checked="" type="checkbox"/>			
Does the COC agree with the number and type of sample bottles received(1)?	<input checked="" type="checkbox"/>			
Do the sample IDs on the bottle labels match the COC(1)?	<input checked="" type="checkbox"/>			
Is the COC properly relinquished by the client with date and time recorded(1)?	<input checked="" type="checkbox"/>			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked (1)? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCl, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH, etc.)			<input checked="" type="checkbox"/>	
Additional Comments (if any):				

(1) If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to be in the additional comments (above) and the case narrative.

AS
 Reviewed by (Project Manager)

3-20-26
 Date/Time Reviewed



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

AST01@0.5'
3/18/2026 2:24:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-01 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7196									
Chromium, Hexavalent	0.25		0.21	mg/kg dry	1	BJD0291	04/06/2026	04/08/2026	
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.103	mg/L dry	1	6C20030	03/20/2026	03/23/2026	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		25.6	mg/kg dry	1	6C19135	03/19/2026	03/20/2026	U
Residual Range Organics (C28-C36)	ND		102	"	"	"	"	"	U
Surrogate: o-Terphenyl	81.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

AST01@0.5'
3/18/2026 2:24:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-01 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.204	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
Surrogate: 1,2-Dichloroethane-d4	110 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.9 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	2.38		0.499	meq/L	10	[CALC]	03/20/2026	03/24/2026	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

AST01@0.5'
3/18/2026 2:24:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-01 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.021	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U
Fluoranthene	ND		0.021	"	"	"	"	"	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.7 %								
Surrogate: Anthracene-d10	92.4 %								
Surrogate: Pyrene-d10	95.9 %								
Surrogate: Benzo (a) pyrene-d12	100 %								

Percent Solids

Total Solids, Percent	97.4			mass percent	1	6C20121	03/20/2026	03/20/2026	
-----------------------	------	--	--	--------------	---	---------	------------	------------	--

pH in Soil by 9045D

pH	7.50			pH Units	1	6C20060	03/20/2026	03/24/2026	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

AST01@0.5'
3/18/2026 2:24:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-01 (Soil)
Origins Laboratory

SAR by 20B Saturated Paste

SAR	0.0388		0.0100	SAR	1	6C20045	03/20/2026	03/24/2026	
-----	--------	--	--------	-----	---	---------	------------	------------	--

Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.367		0.00500	mmhos/cm	1	6C20060	03/20/2026	03/24/2026	
---------------------------	-------	--	---------	----------	---	---------	------------	------------	--

Table 915 metals by EPA 6020B

Arsenic	2.63		0.199	mg/kg dry	10	6C24088	03/24/2026	03/26/2026	
Barium	127		56.0	"	"	"	"	"	
Cadmium	ND		0.260	"	"	"	"	"	U
Copper	ND		31.4	"	"	"	"	"	U
Lead	ND		9.57	"	"	"	"	"	U
Nickel	ND		17.8	"	"	"	"	"	U
Selenium	ND		0.168	"	"	"	"	"	U
Silver	ND		0.547	"	"	"	"	"	U
Zinc	ND		253	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-INLET@3'
3/18/2026 2:57:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-02 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7196									
Chromium, Hexavalent	0.21		0.21	mg/kg dry	1	BJD0291	04/06/2026	04/08/2026	
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	ND		0.107	mg/L dry	1	6C20030	03/20/2026	03/23/2026	U
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		26.5	mg/kg dry	1	6C19135	03/19/2026	03/20/2026	U
Residual Range Organics (C28-C36)	ND		106	"	"	"	"	"	U
Surrogate: o-Terphenyl	87.0 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-INLET@3'
3/18/2026 2:57:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-02 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.212	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		"	"	"	
Surrogate: Toluene-d8	92.4 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	103 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.18		0.499	meq/L	10	[CALC]	03/20/2026	03/24/2026	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-INLET@3'
3/18/2026 2:57:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-02 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.022	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.2 %				70-130	"	"	"	
Surrogate: Anthracene-d10	90.3 %				70-130	"	"	"	
Surrogate: Pyrene-d10	96.9 %				70-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	99.6 %				70-130	"	"	"	

Percent Solids

Total Solids, Percent	92.8			mass percent	1	6C20121	03/20/2026	03/20/2026	
-----------------------	------	--	--	--------------	---	---------	------------	------------	--

pH in Soil by 9045D

pH	8.32			pH Units	1	6C20060	03/20/2026	03/24/2026	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-INLET@3'
3/18/2026 2:57:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-02 (Soil)									
Origins Laboratory									
SAR by 20B Saturated Paste									
SAR	0.270		0.0100	SAR	1	6C20045	03/20/2026	03/24/2026	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.240		0.00500	mmhos/cm	1	6C20060	03/20/2026	03/24/2026	
Table 915 metals by EPA 6020B									
Arsenic	4.40		0.215	mg/kg dry	10	6C24088	03/24/2026	03/26/2026	
Barium	99.4		60.6	"	"	"	"	"	
Cadmium	ND		0.281	"	"	"	"	"	U
Copper	ND		34.0	"	"	"	"	"	U
Lead	ND		10.3	"	"	"	"	"	U
Nickel	ND		19.2	"	"	"	"	"	U
Selenium	0.227		0.182	"	"	"	"	"	
Silver	ND		0.591	"	"	"	"	"	U
Zinc	ND		274	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-OUTLET@3'
3/18/2026 2:54:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-03 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7196									
Chromium, Hexavalent	ND		0.21	mg/kg dry	1	BJD0291	04/06/2026	04/08/2026	
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.799		0.104	mg/L dry	1	6C20030	03/20/2026	03/23/2026	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		26.4	mg/kg dry	1	6C19135	03/19/2026	03/20/2026	U
Residual Range Organics (C28-C36)	ND		106	"	"	"	"	"	U
Surrogate: o-Terphenyl	89.5 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-OUTLET@3'
3/18/2026 2:54:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-03 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.211	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
Surrogate: 1,2-Dichloroethane-d4	116 %			70-130		"	"	"	
Surrogate: Toluene-d8	92.7 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.530		0.499	meq/L	10	[CALC]	03/20/2026	03/24/2026	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	3.02		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.021	"	"	"	"	"	U
Anthracene	ND		0.021	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.005	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.021	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.021	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.021	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-OUTLET@3'
3/18/2026 2:54:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-03 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.021	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
Dibenz (a,h) anthracene	ND		0.021	"	"	"	"	"	U
Fluoranthene	ND		0.021	"	"	"	"	"	U
Fluorene	ND		0.021	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.021	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.021	"	"	"	"	"	U

Surrogate: Fluorene-d10	97.2 %				70-130	"	"	"	
Surrogate: Anthracene-d10	91.9 %				70-130	"	"	"	
Surrogate: Pyrene-d10	93.9 %				70-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	101 %				70-130	"	"	"	

Percent Solids

Total Solids, Percent	94.9			mass percent	1	6C20121	03/20/2026	03/20/2026	
-----------------------	------	--	--	--------------	---	---------	------------	------------	--

pH in Soil by 9045D

pH	8.53			pH Units	1	6C20060	03/20/2026	03/24/2026	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP01-OUTLET@3'
3/18/2026 2:54:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-03 (Soil)									
Origins Laboratory									
SAR by 20B Saturated Paste									
SAR	4.97		0.0100	SAR	1	6C20045	03/20/2026	03/24/2026	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.465		0.00500	mmhos/cm	1	6C20060	03/20/2026	03/24/2026	
Table 915 metals by EPA 6020B									
Arsenic	3.39		0.211	mg/kg dry	10	6C24088	03/24/2026	03/26/2026	
Barium	152		59.4	"	"	"	"	"	
Cadmium	ND		0.275	"	"	"	"	"	U
Copper	ND		33.3	"	"	"	"	"	U
Lead	ND		10.1	"	"	"	"	"	U
Nickel	ND		18.8	"	"	"	"	"	U
Selenium	ND		0.178	"	"	"	"	"	U
Silver	ND		0.580	"	"	"	"	"	U
Zinc	ND		268	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP-Riser(12-18.18-4)@3'
 3/18/2026 2:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-04 (Soil)									
Enthalpy Analytical									
TOTAL METALS BY SW7196									
Chromium, Hexavalent	0.31		0.22	mg/kg dry	1	BJD0291	04/06/2026	04/08/2026	
Origins Laboratory									
Boron (DTPA Sorbitol)									
(DTPA Sorbitol) Boron	0.135		0.112	mg/L dry	1	6C20030	03/20/2026	03/23/2026	
DRO/ORO by EPA 8015D									
Diesel (C10-C28)	ND		27.8	mg/kg dry	1	6C19135	03/19/2026	03/20/2026	U
Residual Range Organics (C28-C36)	ND		111	"	"	"	"	"	U
Surrogate: o-Terphenyl	86.8 %			50-150		"	"	"	
GBTEX+TMBs by 8260D									
1,2,4-Trimethylbenzene	ND		0.002	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
1,3,5-Trimethylbenzene	ND		0.002	"	"	"	"	"	U
Benzene	ND		0.002	"	"	"	"	"	U
Ethylbenzene	ND		0.002	"	"	"	"	"	U
Toluene	ND		0.002	"	"	"	"	"	U
Xylenes, total	ND		0.002	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP-Riser(12-18.18-4)@3'
3/18/2026 2:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-04 (Soil)
Origins Laboratory

GBTEX+TMBs by 8260D

Gasoline Range Hydrocarbons	ND		0.224	mg/kg dry	1	6C18103	03/18/2026	03/20/2026	U
Surrogate: 1,2-Dichloroethane-d4	114 %			70-130		"	"	"	
Surrogate: Toluene-d8	93.2 %			70-130		"	"	"	
Surrogate: 4-Bromofluorobenzene	104 %			70-130		"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	1.14		0.499	meq/L	10	[CALC]	03/20/2026	03/24/2026	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	ND		0.435	"	"	"	"	"	

PAH by EPA 8270E extracted via 3580A

1-Methylnaphthalene	ND		0.002	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
2-Methylnaphthalene	ND		0.002	"	"	"	"	"	U
Acenaphthene	ND		0.022	"	"	"	"	"	U
Anthracene	ND		0.022	"	"	"	"	"	U
Benzo (a) anthracene	ND		0.006	"	"	"	"	"	U
Benzo (a) pyrene	ND		0.022	"	"	"	"	"	U
Benzo (b) fluoranthene	ND		0.022	"	"	"	"	"	U
Benzo (k) fluoranthene	ND		0.022	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP-Riser(12-18.18-4)@3'
3/18/2026 2:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	-----------------	-----------------	-------	----------	-------	----------	----------	-------

DJC0554-04 (Soil)
Origins Laboratory

PAH by EPA 8270E extracted via 3580A

Chrysene	ND		0.022	mg/kg dry	1	6C20085	03/20/2026	03/20/2026	U
Dibenz (a,h) anthracene	ND		0.022	"	"	"	"	"	U
Fluoranthene	ND		0.022	"	"	"	"	"	U
Fluorene	ND		0.022	"	"	"	"	"	U
Indeno (1,2,3-cd) pyrene	ND		0.022	"	"	"	"	"	U
Naphthalene	ND		0.002	"	"	"	"	"	U
Pyrene	ND		0.022	"	"	"	"	"	U

Surrogate: Fluorene-d10	96.5 %				70-130	"	"	"	
Surrogate: Anthracene-d10	90.6 %				70-130	"	"	"	
Surrogate: Pyrene-d10	95.0 %				70-130	"	"	"	
Surrogate: Benzo (a) pyrene-d12	97.3 %				70-130	"	"	"	

Percent Solids

Total Solids, Percent	89.8			mass percent	1	6C20121	03/20/2026	03/20/2026	
-----------------------	------	--	--	--------------	---	---------	------------	------------	--

pH in Soil by 9045D

pH	8.32			pH Units	1	6C20060	03/20/2026	03/24/2026	
----	------	--	--	----------	---	---------	------------	------------	--

SAR by 20B Saturated Paste

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

SEP-Riser(12-18.18-4)@3'
3/18/2026 2:59:00PM

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
DJC0554-04 (Soil)									
Origins Laboratory									
SAR by 20B Saturated Paste									
SAR	0.454		0.0100	SAR	1	6C20045	03/20/2026	03/24/2026	
Specific Conductance Mod. 9050A									
Specific Conductance (EC)	0.257		0.00500	mmhos/cm	1	6C20060	03/20/2026	03/24/2026	
Table 915 metals by EPA 6020B									
Arsenic	3.78		0.226	mg/kg dry	10	6C24088	03/24/2026	03/26/2026	
Barium	143		63.8	"	"	"	"	"	
Cadmium	ND		0.296	"	"	"	"	"	U
Copper	ND		35.8	"	"	"	"	"	U
Lead	ND		10.9	"	"	"	"	"	U
Nickel	ND		20.2	"	"	"	"	"	U
Selenium	ND		0.191	"	"	"	"	"	U
Silver	ND		0.622	"	"	"	"	"	U
Zinc	ND		288	"	"	"	"	"	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

***** DEFAULT GENERAL METHOD *** - Quality Control**
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20121 - % Solids

Duplicate (6C20121-DUP1)

Source: DJC0553-01

Prepared: 03/20/2026 Analyzed: 03/20/2026

Total Solids, Percent	93.2		mass percent		92.5			0.702	20	
-----------------------	------	--	--------------	--	------	--	--	-------	----	--

Duplicate (6C20121-DUP2)

Source: DJC0553-02

Prepared: 03/20/2026 Analyzed: 03/20/2026

Total Solids, Percent	81.3		mass percent		81.1			0.268	20	
-----------------------	------	--	--------------	--	------	--	--	-------	----	--

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Classical Chemistry Parameters - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20030 - DTPA Sorbitol Preparation

Prepared: 03/20/2026 Analyzed: 03/23/2026

Blank (6C20030-BLK1)

(DTPA Sorbitol) Boron ND 0.100 mg/L wet U

Duplicate (6C20030-DUP1)

Source: DJC0553-01

Prepared: 03/20/2026 Analyzed: 03/23/2026

(DTPA Sorbitol) Boron 0.139 0.109 mg/L dry 0.134 3.53 50

Batch 6C20045 - Saturated Paste Metals

Prepared: 03/20/2026 Analyzed: 03/24/2026

Blank (6C20045-BLK1)

SAR ND 0.0100 SAR U
 Calcium PPM ND 10.0 mg/L U
 Magnesium PPM ND 10.0 " U
 Sodium PPM ND 10.0 " U

Duplicate (6C20045-DUP1)

Source: DJC0553-10

Prepared: 03/20/2026 Analyzed: 03/24/2026

Calcium PPM 28.0 10.0 mg/L 29.3 4.50 50
 SAR ND 0.0100 SAR 0.410 200 U
 Magnesium PPM 44.2 10.0 mg/L 48.5 9.37 50
 Sodium PPM 14.5 10.0 " 15.6 7.11 50

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20085 - EPA 3580

Blank (6C20085-BLK1)

Prepared: 03/20/2026 Analyzed: 03/20/2026

1-Methylnaphthalene	ND	0.002	mg/kg wet							U
2-Methylnaphthalene	ND	0.002	"							U
Acenaphthene	ND	0.020	"							U
Anthracene	ND	0.020	"							U
Benzo (a) anthracene	ND	0.005	"							U
Benzo (a) pyrene	ND	0.020	"							U
Benzo (b) fluoranthene	ND	0.020	"							U
Benzo (k) fluoranthene	ND	0.020	"							U
Chrysene	ND	0.020	"							U
Dibenz (a,h) anthracene	ND	0.020	"							U
Fluoranthene	ND	0.020	"							U
Fluorene	ND	0.020	"							U
Indeno (1,2,3-cd) pyrene	ND	0.020	"							U
Naphthalene	ND	0.002	"							U
Pyrene	ND	0.020	"							U

Surrogate: Fluorene-d10	190		ug/kg	200		96.4	70-130			
Surrogate: Anthracene-d10	190		"	200		93.8	70-130			
Surrogate: Pyrene-d10	190		"	200		95.1	70-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.5	70-130			

LCS (6C20085-BS1)

Prepared: 03/20/2026 Analyzed: 03/20/2026

1-Methylnaphthalene	0.214	0.002	mg/kg wet	0.203		106	70-130			
2-Methylnaphthalene	0.213	0.002	"	0.203		105	70-130			
Acenaphthene	0.212	0.020	"	0.203		104	70-130			
Anthracene	0.186	0.020	"	0.203		91.8	70-130			
Benzo (a) anthracene	0.196	0.005	"	0.203		96.8	70-130			
Benzo (a) pyrene	0.219	0.020	"	0.203		108	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20085 - EPA 3580

LCS (6C20085-BS1)

Prepared: 03/20/2026 Analyzed: 03/20/2026

Benzo (b) fluoranthene	0.223	0.020	mg/kg wet	0.203		110	70-130			
Benzo (g,h,i) perylene	0.219	0.020	"	0.203		108	70-130			
Benzo (k) fluoranthene	0.208	0.020	"	0.203		103	70-130			
Chrysene	0.198	0.020	"	0.203		97.7	70-130			
Dibenz (a,h) anthracene	0.244	0.020	"	0.203		120	70-130			
Fluoranthene	0.206	0.020	"	0.203		102	70-130			
Fluorene	0.208	0.020	"	0.203		103	70-130			
Indeno (1,2,3-cd) pyrene	0.214	0.020	"	0.203		106	70-130			
Naphthalene	0.218	0.002	"	0.203		107	70-130			
Phenanthrene	0.210	0.020	"	0.203		104	70-130			
Pyrene	0.208	0.020	"	0.203		103	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.4	70-130			
Surrogate: Anthracene-d10	180		"	200		90.4	70-130			
Surrogate: Pyrene-d10	190		"	200		96.1	70-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.4	70-130			

Matrix Spike (6C20085-MS1)

Source: DJC0550-12

Prepared: 03/20/2026 Analyzed: 03/20/2026

1-Methylnaphthalene	0.241	0.002	mg/kg dry	0.214	ND	113	70-130			
2-Methylnaphthalene	0.239	0.002	"	0.214	ND	112	70-130			
Acenaphthene	0.228	0.021	"	0.214	ND	107	70-130			
Anthracene	0.220	0.021	"	0.214	ND	103	70-130			
Benzo (a) anthracene	0.231	0.005	"	0.214	ND	108	70-130			
Benzo (a) pyrene	0.262	0.021	"	0.214	0.001	122	70-130			
Benzo (b) fluoranthene	0.274	0.021	"	0.214	0.001	127	70-130			
Benzo (g,h,i) perylene	0.250	0.021	"	0.214	0.003	115	70-130			
Benzo (k) fluoranthene	0.246	0.021	"	0.214	0.001	114	70-130			
Chrysene	0.232	0.021	"	0.214	0.0008	108	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20085 - EPA 3580

Matrix Spike (6C20085-MS1)

Source: DJC0550-12

Prepared: 03/20/2026 Analyzed: 03/20/2026

Dibenz (a,h) anthracene	0.279	0.021	mg/kg dry	0.214	0.002	129	70-130			
Fluoranthene	0.233	0.021	"	0.214	ND	109	70-130			
Fluorene	0.239	0.021	"	0.214	ND	112	70-130			
Indeno (1,2,3-cd) pyrene	0.253	0.021	"	0.214	0.004	116	70-130			
Naphthalene	0.245	0.002	"	0.214	ND	115	70-130			
Phenanthrene	0.229	0.021	"	0.214	ND	107	70-130			
Pyrene	0.230	0.021	"	0.214	ND	108	70-130			
Surrogate: Fluorene-d10	190		ug/kg	200		96.9	70-130			
Surrogate: Anthracene-d10	180		"	200		91.3	70-130			
Surrogate: Pyrene-d10	190		"	200		94.2	70-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		99.2	70-130			

Matrix Spike Dup (6C20085-MSD1)

Source: DJC0550-12

Prepared: 03/20/2026 Analyzed: 03/20/2026

1-Methylnaphthalene	0.228	0.002	mg/kg dry	0.212	ND	108	70-130	5.68	35	
2-Methylnaphthalene	0.230	0.002	"	0.212	ND	109	70-130	3.75	35	
Acenaphthene	0.218	0.021	"	0.212	ND	103	70-130	4.51	35	
Anthracene	0.216	0.021	"	0.212	ND	102	70-130	2.18	35	
Benzo (a) anthracene	0.210	0.005	"	0.212	ND	99.1	70-130	9.67	35	
Benzo (a) pyrene	0.271	0.021	"	0.212	0.001	128	70-130	3.67	35	
Benzo (b) fluoranthene	0.272	0.021	"	0.212	0.001	128	70-130	0.565	35	
Benzo (g,h,i) perylene	0.255	0.021	"	0.212	0.003	119	70-130	1.95	35	
Benzo (k) fluoranthene	0.261	0.021	"	0.212	0.001	123	70-130	6.09	35	
Chrysene	0.210	0.021	"	0.212	0.0008	98.7	70-130	10.2	35	
Dibenz (a,h) anthracene	0.277	0.021	"	0.212	0.002	130	70-130	0.723	35	
Fluoranthene	0.222	0.021	"	0.212	ND	105	70-130	5.06	35	
Fluorene	0.223	0.021	"	0.212	ND	105	70-130	6.62	35	
Indeno (1,2,3-cd) pyrene	0.251	0.021	"	0.212	0.004	117	70-130	0.501	35	

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

EPA 8270E (SW846) - Semivolatile Organic Compounds - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20085 - EPA 3580

Matrix Spike Dup (6C20085-MSD1)

Source: DJC0550-12

Prepared: 03/20/2026 Analyzed: 03/20/2026

Naphthalene	0.237	0.002	mg/kg dry	0.212	ND	112	70-130	3.51	35	
Phenanthrene	0.223	0.021	"	0.212	ND	105	70-130	2.93	35	
Pyrene	0.222	0.021	"	0.212	ND	105	70-130	3.46	35	
Surrogate: Fluorene-d10	190		ug/kg	200		96.7	70-130			
Surrogate: Anthracene-d10	190		"	200		93.2	70-130			
Surrogate: Pyrene-d10	190		"	200		95.7	70-130			
Surrogate: Benzo (a) pyrene-d12	200		"	200		101	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C19135 - EPA 3550B

Prepared: 03/19/2026 Analyzed: 03/20/2026

Blank (6C19135-BLK1)

Diesel (C10-C28)	ND	25.1	mg/kg wet							U
Residual Range Organics (C28-C36)	ND	101	"							U
Surrogate: o-Terphenyl	19		"	25.0		76.7	50-150			

LCS (6C19135-BS1)

Prepared: 03/19/2026 Analyzed: 03/20/2026

Diesel (C10-C28)	921	50.0	mg/kg wet	1000		92.1	70-130			
Residual Range Organics (C28-C36)	892	200	"	1000		89.2	70-130			
Surrogate: o-Terphenyl	44		"	49.8		88.6	50-150			

Matrix Spike (6C19135-MS1)

Source: DJC0523-08

Prepared: 03/19/2026 Analyzed: 03/20/2026

Diesel (C10-C28)	950	49.7	mg/kg wet	994	43.9	91.2	70-130			
Residual Range Organics (C28-C36)	1470	199	"	994	399	108	70-130			
Surrogate: o-Terphenyl	36		"	49.5		73.4	50-150			

Matrix Spike Dup (6C19135-MSD1)

Source: DJC0523-08

Prepared: 03/19/2026 Analyzed: 03/20/2026

Diesel (C10-C28)	866	49.3	mg/kg wet	986	43.9	83.4	70-130	9.28	35	
Residual Range Organics (C28-C36)	1280	197	"	986	399	89.5	70-130	13.8	35	
Surrogate: o-Terphenyl	41		"	49.1		83.0	50-150			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C24088 - EPA 3050B

Blank (6C24088-BLK1)

Prepared: 03/24/2026 Analyzed: 03/26/2026

Arsenic	ND	0.218	mg/kg wet							U
Barium	ND	61.5	"							U
Cadmium	ND	0.285	"							U
Copper	ND	34.5	"							U
Lead	ND	10.5	"							U
Nickel	ND	19.5	"							U
Selenium	ND	0.184	"							U
Silver	ND	0.600	"							U
Zinc	ND	278	"							U

LCS (6C24088-BS1)

Prepared: 03/24/2026 Analyzed: 03/26/2026

Arsenic	5.42	0.218	mg/kg wet	5.00		108	80-120			
Barium	558	61.5	"	500		112	80-120			
Cadmium	5.56	0.285	"	5.00		111	80-120			
Copper	58.0	34.5	"	50.0		116	80-120			
Lead	5.57	10.5	"	5.00		111	80-120			U
Nickel	5.62	19.5	"	5.00		112	80-120			U
Selenium	5.24	0.184	"	5.00		105	80-120			
Silver	5.55	0.600	"	5.00		111	80-120			
Zinc	58.3	278	"	50.0		117	80-120			U

Matrix Spike (6C24088-MS1)

Source: DJC0553-06

Prepared: 03/24/2026 Analyzed: 03/26/2026

Arsenic	10.5	0.219	mg/kg dry	5.03	5.71	96.3	75-125			
Barium	685	61.9	"	503	167	103	75-125			
Cadmium	5.35	0.287	"	5.03	0.156	103	75-125			
Copper	66.4	34.7	"	50.3	10.7	111	75-125			
Lead	14.8	10.6	"	5.03	9.62	103	75-125			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Metals by EPA 6000/7000 Series Methods - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C24088 - EPA 3050B

Matrix Spike (6C24088-MS1)

Source: DJC0553-06

Prepared: 03/24/2026 Analyzed: 03/26/2026

Nickel	19.3	19.6	mg/kg dry	5.03	13.4	118	75-125			U
Selenium	4.92	0.186	"	5.03	0.560	86.6	75-125			
Silver	5.31	0.604	"	5.03	0.0463	105	75-125			
Zinc	102	279	"	50.3	45.3	112	75-125			U

Matrix Spike Dup (6C24088-MSD1)

Source: DJC0553-06

Prepared: 03/24/2026 Analyzed: 03/26/2026

Arsenic	9.88	0.227	mg/kg dry	5.20	5.71	80.3	75-125	6.53	20	
Barium	647	64.0	"	520	167	92.2	75-125	5.82	20	
Cadmium	5.02	0.296	"	5.20	0.156	93.5	75-125	6.42	20	
Copper	61.8	35.9	"	52.0	10.7	98.4	75-125	7.06	20	
Lead	14.0	10.9	"	5.20	9.62	83.6	75-125	5.64	20	
Nickel	17.4	20.3	"	5.20	13.4	77.5	75-125	10.4	20	U
Selenium	4.36	0.192	"	5.20	0.560	73.1	75-125	12.0	20	QM-07
Silver	5.09	0.624	"	5.20	0.0463	97.0	75-125	4.30	20	
Zinc	95.1	289	"	52.0	45.3	95.8	75-125	6.83	20	U

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Saturated Paste - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C20060 - Saturated Paste pH/EC

Blank (6C20060-BLK1)

Prepared: 03/20/2026 Analyzed: 03/24/2026

Specific Conductance (EC) ND 0.00500 mmhos/cm U

Duplicate (6C20060-DUP1)

Source: DJC0553-10

Prepared: 03/20/2026 Analyzed: 03/24/2026

pH 8.24 pH Units 8.24 0.00 25

Specific Conductance (EC) 0.708 0.00500 mmhos/cm 0.728 2.73 25

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C18103 - EPA 5030 (soil)

Prepared: 03/18/2026 Analyzed: 03/20/2026

Blank (6C18103-BLK1)

1,2,4-Trimethylbenzene	ND	0.002	mg/kg wet							U
1,3,5-Trimethylbenzene	ND	0.002	"							U
Benzene	ND	0.002	"							U
Ethylbenzene	ND	0.002	"							U
Toluene	ND	0.002	"							U
Xylenes, total	ND	0.002	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U

Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		107	70-130			
Surrogate: Toluene-d8	0.13		"	0.125		102	70-130			
Surrogate: 4-Bromofluorobenzene	0.12		"	0.125		97.4	70-130			

LCS (6C18103-BS1)

Prepared: 03/18/2026 Analyzed: 03/20/2026

1,2,4-Trimethylbenzene	0.101	0.002	mg/kg wet	0.100		101	70-130			
1,3,5-Trimethylbenzene	0.103	0.002	"	0.100		103	70-130			
Benzene	0.109	0.002	"	0.100		109	70-130			
Ethylbenzene	0.098	0.002	"	0.100		98.0	70-130			
Naphthalene	0.080	0.004	"	0.100		80.1	70-130			
Toluene	0.103	0.002	"	0.100		103	70-130			
o-Xylene	0.099	0.002	"	0.100		99.3	70-130			
m,p-Xylene	0.221	0.004	"	0.200		110	70-130			

Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		96.1	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		98.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.14		"	0.125		108	70-130			

Matrix Spike (6C18103-MS1)

Source: DJC0523-05

Prepared: 03/18/2026 Analyzed: 03/20/2026

1,2,4-Trimethylbenzene	0.095	0.002	mg/kg wet	0.101	ND	93.7	70-130			
1,3,5-Trimethylbenzene	0.096	0.002	"	0.101	ND	94.9	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 6C18103 - EPA 5030 (soil)

Matrix Spike (6C18103-MS1)

Source: DJC0523-05

Prepared: 03/18/2026 Analyzed: 03/20/2026

Benzene	0.104	0.002	mg/kg wet	0.101	ND	103	70-130			
Ethylbenzene	0.107	0.002	"	0.101	ND	105	70-130			
Naphthalene	0.056	0.004	"	0.101	ND	55.5	70-130			QM-07
Toluene	0.099	0.002	"	0.101	ND	97.7	70-130			
o-Xylene	0.103	0.002	"	0.101	ND	102	70-130			
m,p-Xylene	0.237	0.004	"	0.202	ND	117	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.126		93.9	70-130			
Surrogate: Toluene-d8	0.13		"	0.126		99.4	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.126		119	70-130			

Matrix Spike Dup (6C18103-MSD1)

Source: DJC0523-05

Prepared: 03/18/2026 Analyzed: 03/20/2026

1,2,4-Trimethylbenzene	0.067	0.002	mg/kg wet	0.0994	ND	67.6	70-130	33.9	20	QM-07
1,3,5-Trimethylbenzene	0.068	0.002	"	0.0994	ND	68.5	70-130	33.8	20	QM-07
Benzene	0.093	0.002	"	0.0994	ND	93.4	70-130	11.4	20	
Ethylbenzene	0.084	0.002	"	0.0994	ND	84.4	70-130	23.7	20	QM-07
Naphthalene	0.040	0.004	"	0.0994	ND	39.8	70-130	34.5	20	QM-07
Toluene	0.084	0.002	"	0.0994	ND	84.8	70-130	15.7	20	
o-Xylene	0.082	0.002	"	0.0994	ND	82.8	70-130	22.4	20	QM-07
m,p-Xylene	0.188	0.004	"	0.199	ND	94.8	70-130	22.9	20	QM-07
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.124		100	70-130			
Surrogate: Toluene-d8	0.12		"	0.124		98.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.15		"	0.124		122	70-130			

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Ensolium
 11049 W 44th Avenue, Suite 103
 Wheat Ridge CO 80033

Jeremy Espinoza
 Project Number: 09A1417811
 Project: KMG - Kugel V18-4 WH

TOTAL METALS BY SW7196 - Quality Control
Enthalpy Analytical

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch BJD0291 - No Prep Wet Chem

Prepared: 04/06/2026 Analyzed: 04/08/2026

Blank (BJD0291-BLK1)

Chromium, Hexavalent ND 0.005 mg/kg wet dry

LCS (BJD0291-BS1)

Prepared: 04/06/2026 Analyzed: 04/08/2026

Chromium, Hexavalent 0.05 0.005 mg/kg wet dry 0.0500 92.0 80-120

LCS (BJD0291-BS2)

Prepared: 04/08/2026 Analyzed: 04/08/2026

Chromium, Hexavalent 8.00 1.00 mg/kg wet dry 8.07 99.1 80-120

Duplicate (BJD0291-DUP1)

Source: 26C2176-14

Prepared: 04/06/2026 Analyzed: 04/08/2026

Chromium, Hexavalent ND 0.22 mg/kg dry ND - 20

Matrix Spike (BJD0291-MS1)

Source: 26C2176-14

Prepared: 04/06/2026 Analyzed: 04/08/2026

Chromium, Hexavalent 0.76 0.22 mg/kg dry 2.25 ND 34.0 75-125 M

Matrix Spike (BJD0291-MS2)

Source: 26C2176-14

Prepared: 04/08/2026 Analyzed: 04/08/2026

Chromium, Hexavalent ND 0.21 mg/kg dry 2.12 ND 75-125 M

Origins Laboratory

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

ORIGINS LABORATORY

Ensolium

11049 W 44th Avenue, Suite 103

Wheat Ridge CO 80033

Jeremy Espinoza

Project Number: 09A1417811

Project: KMG - Kugel V18-4 WH

Notes and Definitions

- U Sample is Non-Detect.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- M Matrix spike recovery is outside established acceptance limits
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference

Origins Laboratory



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.