

Index to the Administrative Record, Final Decision
Jordan/Grove #13-11 MI-051-2D-0031

Doc	Date of doc	Date received	Title/Description/Subject	Author/sender	Addressee
I. Final Permit Administrative Record (40 C.F.R. § 124.18(b))					
a. Permit application (40 C.F.R. § 124.9(b)(1))					
1	6/7/2017	6/13/2017	Grove #13-11 SWD; Gladwin County; MI	Troy E. Molby, Jordan Development	1503 Garfield Rd, N; Traverse City, MI 49696
2	*		[Title]	*	*
3					
b. Supporting documentation supplied by permit applicant (40 C.F.R. § 124.9(b)(1))					
4	*	9/15/2017	U.S. EPA Draft Permit, Underground Injection Control Permit, Class II, #MI		
c. Draft permit or notice of intent to deny the application or terminate the permit (40 C.F.R. § 124.9(b)(2))					
5	*	9/15/2017	Statement of Basis MI-051-2D-0031		
d. Statement of basis or fact sheet (40 C.F.R. § 124.9(b)(3))					
e. All documents cited in the statement of basis or fact sheet (40 C.F.R. § 124.9(b)(4))					
6	*	NA	Safe Drinking Water Act (publicly available online)	NA	NA
7		NA	Safe Drinking Water Act regulations at 40 C.F.R. Parts 144 and 146 (public)	NA	NA
8					
f. Other documents contained in the supporting file for the draft permit (40 C.F.R. § 124.9(b)(5))					
9		6/29/2017	EJ Screen Report	Zac Steverson	file
10					
11		6/29/2007	UIC Permit Application Completeness Review Checklist	Janette E. Hansen	file
12		7/3/2017	Completeness Letter	Stephen M. Jann	Troy Molby
13		7/5/2017	EJ Input for Admin Record	Janette E. Hansen	file
14		06/29/2007	Summary of Hydrogeologic Conditions by County for the State of Michigan Open File Report 2007-1236	USGS	
15			Hydrogeologic Atlas of Michigan (atlas maps), Department of Geology, Western Michigan University, Kalamazoo, Michigan, 1981	Dep of Geology, Western Michigan University	

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16			Michigan Hydrogeologic Atlas, Part I: Hydrology for Underground Injection Control in Michigan, Department of Geology, Western Michigan University, Kalamazoo, Michigan, 1981	Dep of Geology, Western Michigan University	
17			Stratigraphic Nomenclature for Michigan, Michigan Department of Environmental Quality, 2000 (Michigan stratigraphic column)	Michigan DEQ	
18	2/2/2015		Minimizing and Managing Potential of Injection-Induced Seismicity from Class II Disposal; Practical Approaches ” https://www.epa.gov/sites/production/files/2015-08/documents/induced-seismicity-201502.pdf		
19		07/18/2017	Note To File on Seismic Risk	Janette E. Hansen	file
20		07/26/2017	Note To File on Endangered Species Act Compliance	Janette E. Hansen	file
21	6/15/2017	07/26/2017	NHPA Letter	Brian D. Grennell	Lisa Perenchio
22		07/26/2017	GeoWebFace Map of Water Wells in AOR (deepest 99ft)	MI DEQ Web	file
23	5/16/2018	05/22/2018	Affidavit of Publication -- Hearing Notice	Katherine S. Doane	file
24	6/28/2018		Addendum to Seismic Risk	Janette E. Hansen	file

II. All Comments Received During the Public Comment Periods (40 C.F.R. § 124.18(b)(1))

25		10/25/2017	USPS letter	Addison, BS	Janette E. Hansen
26		10/25/2017	USPS letter	Addison, EJ	"
27		10/31/2017	email	Anderson, C	"
28		10/31/2017	email	Anderson, L	"
29		10/31/2017	email	Beard	"
30		10/31/2017	email	Blizzard	"
31		10/31/2017	email	Burns	"
32		10/31/2017	email	Bush	"
33		10/31/2017	USPS letter	Cumbow, CACC	"
34		10/31/2017	USPS letter	Cameron	"
35		10/25/2017	USPS letter	Cooper	"
36		10/25/2017	email	Ehle	"
37		10/31/2017	email	Everett	"
38		10/31/2017	email	Falls, A	"
39		10/31/2017	email	Falls, K	"
40		10/31/2017	email	Ford	"
41		10/26/2017	email	Griffin	"
42		10/31/2017	email	Govitz	"

Doc	Date of doc	Date received	Title/Description/Subject	Author/sender	Addressee
43		10/30/2017	USPS letter	Gravelle	"
44		10/30/2017	email	Grzegorzewski	"
45		10/31/2017	email	Hair, K	"
46		10/31/2017	email	Hall, E	"
47		10/31/2017	email	Hall, K	"
48		10/31/2017	email	Hall, M	"
49		10/31/2017	email	Hanel	"
50		10/31/2017	email	Haupt	"
51		10/30/2017	USPS letter	Janiga	"
52		10/31/2017	email	Killingback	"
53		10/31/2017	email	Kline	"
54		10/31/2017	USPS letter	Kruske, A	"
55		10/31/2017	USPS letter	Kruske, R	"
56		10/29/2017	email	Labut	"
57		10/30/2017	USPS letter	Lambdin	"
58		10/31/2017	email	Lowery	"
59		10/31/2017	USPS letter	Meida	"
60		10/31/2017	email	Merrill Antcliff	"
61		10/30/2017	USPS letter	Miller, Lone Tree Council	"
62		10/31/2017	email	Millsap	"
63		10/31/2017	email	Moore	"
64		10/31/2017	email	Myers	"
65		10/31/2017	email	Neely	"
66		10/31/2017	EPA Web Complaint (within comment period, but not sent to proper address)	O'Brien	"
67		10/30/2017	USPS letter	Ostwick	"
68		10/31/2017	email	Patt	"
69		10/31/2017	email	Penny	"
70		10/31/2017	email	Pike	"
71		10/30/2017	email	Primean, C	"
72		10/30/2017	email	Primeau, D	"
73		10/30/2017	USPS letter	Raymond, R	"
74		10/31/2017	email	Ridley	"
75		10/31/2017	email	Robinette	"
76		10/31/2017	email	Robinson	"
78		10/31/2017	email	Schaefer	"
79		10/31/2017	email	Skym	"

<u>Doc</u>	<u>Date of doc</u>	<u>Date received</u>	<u>Title/Description/Subject</u>	<u>Author/sender</u>	<u>Addressee</u>
80		10/31/2017	email	Storm	"
81		10/31/2017	email	Terpening	"
82		10/31/2017	email	Thomas	"
83		10/31/2017	email	Tiano	"
84		10/30/2017	email	Toaz	"
85		10/30/2017	email	Trombley	"
86		10/31/2017	email	Veit	"
87		10/31/2017	email	Vgaudetteadair	"
88		10/31/2017	email	Ward	"
89		10/31/2017	email	Whiting	"
90		10/31/2017	email	Wills	"
91		10/31/2017	email	Wroblewski	"
92		10/31/2017	email	Youngerman	"
93		10/31/2017	email	Zeit	"
94		10/31/2017	USPS letter	Zelt (Sage Twp. Rep)	"
95		6/21/2018	email	Anderson, D	"
96		6-20/2018	email	Avery, M	"
97		6/22/2018	email	Betke, D	"
98		6/22/2018	email	Cornellius, M	"
99		6/20/2018	email	Gerard, K	"
100		6/21/2018	email	Govitz, K	"
101		6/20/2018	email	Groth, K	"
102		6/22/2018	email	Gust, Star	"
103		6/22/2018	email	Hair, K	"
104		6/22/2018	email	Hanel, R	"
105		6/22/2018	email	Haupt, D	"
106		6/22/2018	email	Howell, J	"
107		6/21/2018	email	Kaleta, J	"
108		6/22/2018	email	King, J	"
109		6/22/2018	email	Kozma, L	"
110		6/21/2018	email	Kruske, A	"
111		6/22/2018	email	Kruske, R	"
112		6/20/2018	email	Lamkin, J	"
113		6/20/2018	email	LaPlant, J	"
114		6/20/2018	email	Lukity, C	"
115		6/21/2018	email	Mattson, J	"
116		6/20/2018	email	McMail, A	"

Doc	Date of doc	Date received	Title/Description/Subject	Author/sender	Addressee
117		6/22/2018	email	Merrill-Antcliff,	"
118		6/22/2018	email	Moore, M	"
119		6/22/2018	email	Ostwick,D	"
120		6/20/2018	email	Rajt, M	"
121		6/22/2018	email	Raymond, L	"
122		6/19/2018	email	Reid, M	"
123		6/22/2018	email	Rorye, G	"
124		6/21/2018	email	Schroeder ,R	"
125		6/22/2018	email	Skellenger, J	"
126		6/21/2018	email	Snell, S	"
127		6/14/2018	email	Sprang,D	"
128		6/21/2018	email	Springstead, J	"
129		6/21/2018	email	Storm, E	"
130		6/21/2018	email	Thomas, L	"
131		6/22/2018	email	Tiano, K	"
132		6/20/2018	email	Turluck, N	"
133		6/21/2018	email	Tweed, G	"
134		6/19/2018	email	Tweed, J	"
135		6/22/2018	email	Veit, J	"
136		6/22/2018	email	Young-Wenkel, C	"
137		6/22/2018	email	Zechmeister, L	"
138		6/19/2018	Hearing -oral	Glod, Brandon	"
139		6/19/2018	Hearing -oral	Jackman, Harry	"
140		6/19/2018	Hearing -oral	Jackman, Janet	"
141		6/19/2018	Hearing -oral	Roberson, Tyler	"
142		6/19/2018	Hearing -oral	Lackey, Scott	"
143		6/19/2018	Hearing -oral	Bailey, Mike	"
144		6/19/2018	Hearing -oral	Shiffer, Ralph	"
145		6/19/2018	Hearing -oral	Raymond, Letha	"
146		6/19/2018	Hearing -oral	Henderson, Lee	"
147		6/19/2018	Hearing -oral	Keith, Katie	"
148		6/19/2018	Hearing -oral	Kruske, Amy	"
149		6/19/2018	Hearing -oral	Townsend, Robert (Dr.)	"
150		6/19/2018	Hearing -oral	Murray, Annette	"
151		6/19/2018	Hearing -oral	Shanahan-Galley, Jessica	"
152		6/19/2018	Hearing -oral	Schroeder, Randall	"
153		6/19/2018	Hearing -oral	Davis, Michelle	"

Doc	Date of doc	Date received	Title/Description/Subject	Author/sender	Addressee
154		6/19/2018	Hearing -oral	Curtis, Tracy	"
155		6/19/2018	Hearing -oral	Rackord, Jim	"
156		6/19/2018	Hearing -oral	Schroeder, Judith	"
157		6/19/2018	Hearing -oral	Freier, Jon	"
158		6/19/2018	Hearing -oral	Kruske, Ronald, DDS	"
159		6/19/2018	Hearing -oral	Ostwick, Dan	"
160		6/19/2018	Hearing -oral	Szerdi, Andy	"
161		6/19/2018	Hearing -oral	Robinson, Tamie	"
162		6/19/2018	Hearing -oral	Schielle, Heather	"
163		6/19/2018	Hearing -oral	Servetter, Joe	"
164		6/19/2018	Hearing -oral	Reece, Paul	"
165		6/19/2018	Hearing -oral	Whitsel, Debbie	"
166		6/19/2018	Hearing -oral	Kordus, Frank	"
1167		6/19/2018	Hearing -oral	Hamilton, Susie	"
168		6/19/2018	Hearing -oral	Bridle, Sam	"
169		6/19/2018	Hearing -oral	Kozma, LuAnne	"
170		6/19/2018	Hearing -oral	Boal, Ellis	"
171		6/19/2018	Hearing -oral	Hall, Veronica	"
172		6/19/2018	Hearing -oral	Peden, Terry	"
173		6/19/2018	Hearing -oral	Terpening, Stephenie	"
174		6/19/2018	Hearing -oral	Terpening, Wayne	"
175		6/19/2018	Hearing -oral	Szerdi, Priscilla	"
176		6/21/2018	USPS letter	Addison, Bethel Sue	Janette E. Hansen
177		6/21/2018	USPS letter	Force, Mary	"
178		6/22/2018	USPS letter	Lambdin, Barbara J.	"
179					
180					

III. Tape or Transcript of Public Hearings (40 C.F.R. § 124.18(b)(2))

181	6/19/2018	6/26/2018	Hearing Transcript, Gladwin High School, Gladwin, MI	Jane Rose Reporting	Janette E. Hansen
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IV. Written Materials Submitted at Public Hearings (40 C.F.R. § 124.18(b)(3))

182		6/19/2018	Written Comments	Tyler Roberson	
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V. Response to Comments (40 C.F.R. § 124.18(b)(4))

a. Response to comments

183	*		Response to Comments on MI-051-2D-0031		
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Doc	Date of doc	Date received	Title/Description/Subject	Author/sender	Addressee
184	*	7/13/2018	Michigan Source Water Assessment: Groundwater in Karst Areas https://mi.water.usgs.gov/pdf/poster.pdf	US Geologic Survey	File
185			Michigan Limited Liability Company Act Section 450	State of Michigan	File
186		8/8/2018	5 Year MI Failure Summary.pdf FY 2013 - 2017	Valoria Robinson	File
187		8/8/2018	"Example: Underground Injection Control Class II Permit Application" https://www.epa.gov/sites/production/files/2016-02/documents/r5-uic-example-uic-class2-permit-application-200206.pdf	U.S. EPA Region 5	
188		10/4/2018	Update of 5 Year MI Class II Well Failure Summary FY 2014-2018	V. Robinson	File
189		9/1/1999	"NORM in Produced Water..." USGS Fact Sheet FS-142-99	U.S. Geological Survey	
VI. Other Records in the Supporting File for the Permit (40 C.F.R. § 124.18(b)(6))					
190		9/26/2018	MI DEQ Application for Permit to Drill Permit # 61215	Jordan Development Co	File
VII. Final Permit (40 C.F.R. § 124.18(b)(7))					
191	*	10/23/18	Jordan Development, LLC Grove #13-11 Well, Permit 0031 MI-051-2D-		

I, Janette E. Hansen, permit writer for the Underground Injection Control Branch, Region 5, U.S.EPA certify that the administrative record for this final permit decision is complete on 10/23/18. The administrative record includes, to the best of my knowledge, all documents required under 40 C.F.R. §124.18. The above Administrative Record Index references all documents in the administrative record for this final permit decision.


 Janette E. Hansen, Permit Writer,
 Underground Injection Control Branch, U.S. EPA Region 5
Oct 26, 2018
 Date