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DATE:

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August 2017

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From:

Jones, Brad A., EMNRD

Sent:

Wednesday, August 2, 2017 12:30 PM

To: Cc: Powell, Brandon, EMNRD (Brandon.Powell@state.nm.us); Perrin, Charlie, EMNRD

The State of the S

Griswold, Jim, EMNRD; Smith, Cory, EMNRD; Fields, Vanessa, EMNRD

Subject:

FW: Odor Call 8-1-17

Attachments:

Odor Complaint 8-1-17.pdf

Brandon,

I received an email from Jim yesterday that he had received a phone call from Sarah Holcomb over at the NMED (827-2798). She received a citizen complaint from Tammy Abbott (480-586-6843) regarding odor/air quality issues associated with Basin Disposal. I initially called John Volkerding (Basin) and notified him of the complaint and requested that Basin implement the conditions of their permit regarding odor/air complaints. John voluntarily agreed to implement the permit protocols. Then I contacted Tammy Abbott regarding the complaint. Ms. Abbott is located south of Basin Disposal off of Illinois. Ms. Abbott was reporting a general compliant regarding sulfur type odors she encounters in the summer on the weekends and in the evenings. She stated that she has experienced irritation at night when the strong odor is pulled into the home through the swamp cooler. Ms. Abbott stated that during one these events she drove up Hwy 550/N 1st Street and determine the potential source to be within proximity of the Basin Disposal off Montana. I have recommended Ms. Abbott to contact the OCD Aztec District office (Brandon Powell) next time such an event occur in the future.

Below is Basin's demonstration of compliance to the conditions of their permit (NM!-005). I spoke with John Volkerding this morning and gave him the details above regarding the compliant. John has recommended OCD to provide his cell phone number (505-320-2840) and the Plant's number (505-632-8936) to Ms. Abbott to call if she encounters the odor again. John clarified that he has staff on-site at night the monitor the facility that should be available. If they do not pickup, then she should call him directly. I have contacted Ms. Abbott and have provided her the contact information.

Brad A. Jones

Environmental Engineer EMNRD Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, New Mexico 87505 É-mail: brad.a.jones@state.nm.us

Office: (505) 476-3487 Fax: (505) 476-3462

From: John Volkerding [mailto:jvolkerding@basindisposalinc.com]

Sent: Wednesday, August 2, 2017 10:27 AM

To: Jones, Brad A., EMNRD < brad.a.jones@state.nm.us>

Subject: Odor Call 8-1-17

Good Morning Brad

I wanted to send an email in response to the call concerning odors.

The permit states

The Owner/Operator shall, within 24 hours of receiving notification from the Division's Environmental Bureau or a concerned party that an Objectionable odor has been detected or reported, implement the following response procedures:

- i, Log date and approximate time of notice that an odor exists, including the name of tile complainant and any contact intonation;
- ii. Investigate the source of the odor and log investigative steps taken, including date and time, and conclusions reached; and
- iii Take actions to alleviate the odor, which may include adjusting chemical treatment, air sparging, solidification, or similar responses, and log the actions taken.

I was unsure of the dates/times, direction and nature of the odor complaint so I pulled our operating logs for this week and last (7/23-8/2).

- -The Daily Odor Inspection sheets documents any odors our employees observe, the direction and speed of the wind, the color of the pond and H2S readings. No abnormal odors or conditions were noted.
- -The Daily H2S Inspection sheet notes the H2S twice per day and showed no reading above zero. In addition to the readings recorded, if the H2S monitors surrounding the pond at anytime read any levels of H2S an alarm sounds in the office and no alarms have been recorded
- The Daily Pond and Bleach Inspection sheets notes the level, color, pH, dissolved oxygen, total chlorine, dissolved H2S/sulfides in the pond as well as tracks the amount of bleach added daily. The sheets show the water chemistry in the pond has been maintained and between 700 and 1400 gallons of bleach added daily.

Attached are the inspection sheets and complaint log. Based on the data and my own observations I truly do not believe that we are the source of the odor and am happy to do anything we need to do to assist in this

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Thanks, John

John Volkerding, PhD, Vice President
Basin Disposal, Inc., 30 Years of HSE Excellence

Plant: 200 Montana, Bloomfield, NM.87413
Office: 300 Legion, PO Box 100, Aztec, NM 87410

Office#: 505-334-3013 Mobile#: 505-320-2840 Fax#: 505-333-3898 Plant#: 505-632-8936

Email: ivolkerding@basindisposalinc.com
Email: ivolkerding@basindisposalinc.com

Water is the driving force of all nature.

Leonardo da Vinci

From:

Powell, Brandon, EMNRD

Sent:

Wednesday, August 2, 2017 11:09 AM

To:

Jones, Brad A., EMNRD

Cc:

Griswold, Jim, EMNRD; Perrin, Charlie, EMNRD

Subject:

Basin Disposal

Good morning Brad,

I just received a call from a Ms. Tammy Abbot about a concern about odors coming from Basin Disposal previously. She stated with you and you had contacted Basin. Can you please provide where you are at with Basin?

Also as a note, there is a chemical company below Basin Disposal which has been verified as another source of odors when we received complaints previously. We have been in contact with the chemical company and the NMED previously concerning the odors originating from loading and unloading of the chemicals.

Thank You

Brandon Powell I & E Supervisor New Mexico Oil Conservation Office: (505) 334-6178 ext. 116

"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From:

John Volkerding < jvolkerding@basindisposalinc.com>

Sent:

Wednesday, August 2, 2017 10:27 AM

To:

Jones, Brad A., EMNRD

Subject:

Odor Call 8-1-17

Attachments:

Odor Complaint 8-1-17.pdf

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Attached are the inspection sheets and complaint log. Based on the data and my own observations I truly do not believe that we are the source of the odor and am happy to do anything we need to do to assist in this

Thanks, John

John Volkerding, PhD, Vice President

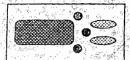
Basin Disposal, Inc., 30 Years of HSE Excellence

Plant: 200 Montana, Bloomfield, NM 87413 Office: 300 Legion, PO Box 100, Aztec, NM 87410

Office#: 505-334-3013 Mobile#: 505-320-2840 Fax#: 505-333-3898 Plant#: 505-632-8936

Plant#: 505-632-8936
Email: jvolkerding@basindisposalinc.com
Email: jvolkerding@aztecwell.com

COMPLAINT FORM



BASIN DISPOSAL, INC.

"SPECIALIZING IN DISPOSAL OF PRODUCED WATER AND DRILLING MUD."
P.O. BOX 100 • AZTEC, NEW MEXICO 87410 • (505) 334-3013

DATE/TIME:		YEE John Volkerding
CALLER: <u>1</u> 3	rad June Emaro borNone	
Note that the second		
START TIME:	STOP T	IME:
INTENSITY	1 2 3 4 5 Very Paint Light Moderate	6 7 8 Strong
ODOR .	Ammonia	Bleach/Swimming Pool
	Sewer/Sewage-Like	Rotten Egg/Sulfur
· X3	Burnt/Smoky	Other (describe)
	Gasoline/Diesel Fuel	
Company Section 1 of the first terms of	IRECTION: ADINGS: 1: 2:	3: 4:
TIME BLEACH	ADDED: VÕL	UME:
COMMENTS MA	ADE BY COMPLAINANT: 🗿 🤙	prox 7-15-PM I newed
	in the second of the contract of the second	ear of the own stop
a cumple.	it had been receive	J. In reviewix our
records -	the H2S mon-tors a	d. In seviewix our round the pond have bleach records show
Shown O-	o constantly. The	- bleach records Thous
between	1200 - 2000 gallons .	f Hench have been
added a	day. The ador lo	gbook Shows as Hes
	abnormal odor a	

BASIN DISPOSAL, INC.

DAILY ODOR INSPECTION
MONTH 7 WEEK BEGINNING YEAR__2017_

ODOR
A.DESCRIBE TYPE OF ODOR (BLEACH, OIL, SULFUR, OTHER)
B. LIST LOCATION ON POND (N, S, E, W)

POND
A. DESCRIBE COLOR (BLACK, BROWN)
B. DESCRIBE OVERFLOW COLOR (BLACK, BROWN, CLEAR)

H2S A.NOTE H2S READINGS

	Sun 23	Mon 24	Tues 25	Wed 26	Thu 27	Fri 78	Sat 29
9PM		^			. 6		
Odor Type (bleach, oil, other)		Bleach	Bleach	Bieach	01	011,	oil
Location (N, S, E, W)		11	N	1	1/2	1/1	N
Wind Speed		10-15	ic-15	8	10	10	0
Wind Direction (N, S, E, W)		N	N			10	0
Overflow (brown, black, clear)		Clear	Clear	cleur	1805/	Cleur	Black
H2S Readings	·	0,	0	0/	7	1	0,
Bleach Added? (Y or N)			1/_	1/	///		N
10PM							
Odor Type (bleach, oil, other)	011	Cil	Bleech	Bleeds	Beech	Blueil	oil
Location (N, S, E, W)	N	55	S	N	13	5	5
Wind Speed	5	2-5	10:15	3-5	0	0	6
Wind Direction (N, S, E, W)	N	5 <u>E</u>	.5	N	-	5	3
Overflow (brown, black, clear)	den	Light Gar			Cleu	Clear	Clear
H2S Readings	8	(•	cier	Clear	T)	0	0
Bleach Added? (Y or N)	N	F F	V	Ne	.ya.	W	V
12PM							1
Odor Type (bleach, oil, other)	011	051	Bleeve	Blech	Beeri	Bleace	T
ILcoation (N. S. E. W)	\ \tau_{\chi}	5	SE	5	Service	2	
V. Speed	5	3	S-10	3	0	0	
Wind Direction (N, S, E, W)	, i	<u> </u>	512	-5		5	
Overflow (brown, black, clear)	clean	Clun	clen	Clear	Ciem	Clear	
H2S Readings	6	46	4	6	E	0	
Bleach Added? (Y or N)	~	1	N	1 1/4	N	. 4	
3AM	, , , , , , , , , , , , , , , , , , ,						
Odor Type (bleach, oil, other)	0.1	1:0	Resoli	Bleuds	Brack	iz leach	Black
Location (N, S, E, W)	NW	3F	S	5	SE	S	5
Wind Speed	\$	3	S	0	0	0-5	0-5
Wind Direction (N, S, E, W)	Niwi	SE	5	(SE	SE	SE
Overflow (brown, black, clear)		Clean	Clu	an	Clear	Clever	Clear
H2S Readings	•	15	6	0	2	0	0
Bleach Added? (Y or N)	~	14	Nes	Ya	Yes	V	\sim
5AM							
Odor Type (bleach, oil, other)	di	Oil	Head	Beerin	Bleau	Dil	oil
Location (N. S. E, W)	N	ک نوی	SB	5.	·SZ	SE	S€
Wind Speed	7_	<u>s</u>	0.5	0	0	0	0
Wind Direction (N. S. E, W)	\rangle \cdot \cdo	Ø S	Stz	5	SE	SE	SE
Overflow (brown, black, clear)]	cur	aus	Cien	Clean	Uzw	clear
H2S Readings	8	5	40	5	4-	ಲ	0
P h Added? (Y or N)	^	M	N	12	N	N	I N

BASIN DISPOSAL, INC. DAILY ODOR INSPECTION WEEK BEGINNING

YEAR__2017_

RESERVED OF ODOR (BLEACH, OIL, SULFUR, OTHER) IT LOCATION ON POND (N. S, E, W)

H2B A NOTE H2S READINGS

e	Sun /2	Mon // i	Tues ///	Wed 8/2	Thu 🥢 🕏	Fri	Sat
VI							
or Type (bleach, oil, other)	Oi.	isherely (Ti)	Bleady		-		
cation (N, S, E, W)	小花	臣	NW				
nd Speed	5:10	510	1045				·
nd Direction (N, S, E, W)	1.75	E	NN				
erflow (brown, black, clear)	Gus	Chi	Cheur		: -		
S Readings	6	8	t				
each Added? (Y or N)	ن.	<i>Y</i> ' .	₽′				
PM							
	oil	Bleach	islect			1	
for Type (bleach, oil, other)	5	Ciecur	S				
cation (N, S, E, W)	0	0	0			 	
ind Speed			0	-	-		1
ind Direction (N, S, E, W)					-		
verflow (brown, black, clear)	Claus	Clear	Clear			· ·	
2S Readings	N		5_		<u> </u>		
each Added? (Y or N)	10.	~				1	<u> </u>
PM		Υ					
or Type (bleach, oil, other)	oil	Bleach	Blech				
ocation (N, S, E, W)	S·	. 2	S				
ind Speed	Q	0	. 0				
ind Direction (N, S, E, W)	5	S	<u> </u>				
verflow (brown, black, clear)	Clear	Cleur	Clear				
2S Readings	0	0	C .				
each Added? (Y or N)	SOME N	1					
\M		Gii					
dor Type (bleach, oil, other)	Black	(See and	Bleach	Bleach			
ocation (N, S, E, W)	S	5:	5				
lind Speed	0-5	0-5	<i>v</i> -5	0.5			
find Direction (N, S, E, W)	5	5	5	S			
verflow (brown, black, clear)	Clerex	Clear	Cleus	Clear			
2S Readings	ت	0	0	0.		- 1	·
each Added? (Y or N)	N	N		Jan V			
AM							
dor Type (bleach, oil, other)	Blue Ch	oil	Bleach	· 13 leach			
ocation (N, S, E, W)	Si	S	<u> </u>	5			
/ind Speed	8-5	0.5	0-5	6-5			
/ind Direction (N, S, E, W)	5	3	5	5			1.
verflow (brown, black, clear)	Clru	Clear	_ieu	Clear			
2S Readings	0	0	0	0		<u> </u>	
each Added? (Y or N)	1	N	1	100 1	1		

BASIN DISPOSAL, INC. DAILY H2S AND SUMP INSPECTION

YEAR 2017 MONTH WEEK BEGINNING 23 SIENT AIR WIND SPEED/DIRECTION (Initials & Time) M READINGS M READINGS SUMP LEVELS (Initials & Time) C. PUMP HOUSE SLIMP CHECKED AM & PM D. LOADING AREA SUMP CHECKED AM & PM, EMPTY DAILY AT 4PM. E. CONCRETE SLAB, NOTE WHEN EMPTY DAILY AT 4PM.									
ite	Sun 23	Mon 24	Tues 25	Wed 2	1				
nbient Air H2S (AM)						Fri 77	Sat 27		
2S Reading (ppm)	0	0	0	6	6	D	1		
ind Speed (mph)	Z	-0	0.5	0-3	0	0.5			
/ind Direction	N	D	S	}		5	5		
itials and Time	51.00 am	S: OUTH	Sicomita	4:00 Ams	Similar	007 £ 7.00	D73.00		
mbient Air H2S (PM)		-							
l2S Reading (ppm)	0	0	0	ØC	Ō	\mathcal{O}	, <i>Q</i> ,		
Vind Speed (mph)	5	10-15	10-15	1600485	6-10	0.5	0-5		
Vind Direction	3	N	N	200	5	₩ S			
nitials and Time		NECH	8:30	杨	500	DT 3:00	1273:00		
Sump Levels						7			
AM Cement Slab Sump (ft)	0	0	8	0	c	0	O		
nM Loading Area (ft)	0	6	ی	0	٥	0	0		
AM Pump House Sump (ft)		16	1-7-	1.4	2.4"	O	C'		
ntials and Time	S:oums	SOUTH	Som	4:00 mg	Bicams	DITTOU	D. 73.00		
Empty Cement Slab (Initial/Date)						PK	OR		
4 PM EMPTY THE SUMPS									
PM Loading Area Sump (ft)			51/11		:	2.80	26"		
PM Pump House Sump (ft)			21214			2/1"	2'		
Intials and Time			DT:800			UF 7.45	1/F400		
Stormwater Control		``							
Strutural Defect (Y,N)	~		10	N	ν.	· N	4		
Action Taken	0	0	0	0	U	C7	0		
Initials and Time	Sicre Bush	SOCOME	SEUDINE	4:coinst	S-comme	りてるにい	073.00		
Manager Verification									
ials and Time		2:00)300A	DSODA	2001	Dicos	8000		

BASIN DISPOSAL, INC. DAILY H2S AND SUMP INSPECTION

mbient Air H2S (AM) 2S Reading (ppm) Vind Speed (mph) Vind Direction Nitials and Time Ambient Air H2S (PM) 42S Reading (ppm) Vind Speed (mph) Vind Direction Nitials and Time NT 2:	HEIENT AIR WIND SPEED/DIRECTION (Initiats & Time) WEEK BEGINNING SUMP LEVELS (Initiats & Time) WEEK BEGINNING SUMP LEVELS (Initiats & Time) C. PUMP HOUSE SUMP CHECKED AM & PM D. CADNING AREA SUMP CHECKED AM & PM, EMPTY DAILY AT 4PM. E. CONCRETE SLAB, NOTE WHEN EMPTOED									
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Stormwater Control	•									
Stormwater Control										
Strutural Defect (Y,N) V N										
Action Taken 0 0 0										
Initials and Time DT3.00 DT 073.00 DT3:00										
Manager Verification										
Intials and Time										

BASIN DISPOSAL, INC. DAILY POND BLEACH INSPECTION MONTH WEEK BEGINNING

23 YEAR__2017_

BLEACH A TIME (note AM or PM) B. VOLUME (Gallons)

Date	Sun 23	Mon 24	Tues 2.5	Wed てし	Thu 2つ	Fri 2.8	Sat 25
nd 1 Conditions							
Pond Level (ft)	10.0	10,	10.	ئن ني	il'o''	11011	11,0,,
Overflow Color	clear	aves	Clear	Cien	cleu	Llegi	Cler
Pond Color	Brown	Fice	Brown	Brann	Bran	· isroim	13,000
Water Temperature	70°	700	70°	7000	70°	700	70
ρH	7.6	7.2	100-105 7.5	7-6	7.7	7.6	7.7
Dissolved Oxygen	.3	3	3	3	.3	5	3
Total Chlorine	0.01	0.00	0.03	0.00	0.10	2.00	ರ್ವರಿ
Dissolved H2S/Sulfides	Sicobush	Sicomic	SHOWN	Soums	Sicomis	13:00	0.73.2
Pond 3 Conditions							
Pond Level (ft)	2	2	7	2-	7	Z	Z
Pond Color	Blade	Black	Ricele	Reule	Buch	islack	Biack
Water Temperature	.20	70"	763	70"	70	700	700
pH	6-6	(0.0)	6.0	6.0	6-C	0.0	6.0
Dissolved Oxygen		1	1	1	1	i	1
Total Chlorine	0.00	0.00	000	0.00	0.50	a. co	0,30
Dissolved H2S/Sulfides	Sicolons	Susmis	S-cicims	Savolon	Sichamai	3; Cd 15-	
Bleach/Chemical Time	5:34 Pm	6:30 2	300 pm	3000 3:50 BM	3:00m	12:.03	10:00
Volume	400 Gal	60000	300 904	360 ged	30074	400.	30 Cra
Initials	11F	Dis tal	SCWI	SC# 1	5 tt 1 C	115-7	15.7
	3000 aprile 1070	and the state of t	\$ 10:00pm	3 oram	81.00	9:000	3.00
Volume	200901	30044	300604		4009.1	400	Barlant
Initials	Siti	Schi	SCET	305401 C	VE	11-	25
native supplied activities at		STATE OF THE STATE	con transfer ordered charges are or		STATESTER HERE THE STREET	ari atterrais de chemina de monde	SECTIONS OF THE PROPERTY OF THE
Time	 	300 10:00 pm		600	(6'W)D_	4:60 di	81000
Volume	 	31000	400 5 = 1	44290	400eal	3000	4W
Initials		SCHI	170	1621	P6 31		Pon
Time		ļ		ļ. <u>.</u>	ļ		. ,
Volume		ļ		·			
Initials							
Time						1	
Volume							
Initials							
Time							
Volume							
Initials							2
Manager Verification		16	-/6-	-/6-	PG	- Ph	PA
Intials and Time							- / · · · · · · ·

BASIN DISPOSAL, INC.

DAILY POND BLEACH INSPECTION

MONTH WEEK BEGINNING

BLEACH
A THE CHARM AM OF PRIO
8. VOLUME (CHARM)

e	Sun 7/3	Mon	Tues	Wed	Thu Z	Fri	Sat
nd 1 Conditions						The state of the s	
nd Level (ft)	1100	110	1(104	11 11			
erflow Color	Clear	Clear	<u> </u>	Cleur			
nd Color	Brown	Brown	Black	Bluck			
iter Temperature	640	650	690	70°			
	7. Lt	7.6	74	7. 7.			
ssolved Oxygen	3	٧ :	2	Z			
tai Chlorine	0,00	0.00	0.00	0.0		-	
ssolved H2S/Sulfides	173:00	0,73:00	0.73:00	0.73:00			
nd 3 Conditions				,			
and Level (ft)	7	ک	'2	- 7	·		
and Color	Black	Black	Black	Black			
ater Temperature	700	\$ 70°	600	690			
4	6.3	6.0	6.0	6-0			
issolved Oxygen	Ì	("	. [ì			
otal Chlorine	0,0	0.0	0,0	0.0			
issolved H2S/Sulfides	D7 3:00	D.T 3-00	DT 3-00	DIJOU			
leach/Chemical							
ime	8000	8:00 mm	11:00	0000 10:30	}		
Volume	400	400	<u>`400</u>	400			
Initials	80 121	5241	TO	1.0			
ime	iegun	11.00	3:00	3;0ల			
Volume	دان	400	. 400	7.4			
Initials	POT A	DT	D-1	400			The Control of the Co
ime	13:110~	LIUS AVA	7:00pm	3.00			
Volume	1400		400	400			
Initials	400 VIE	9641	Scit ("C"	1527			
ime			5.Pm				
Volume			600				
Initials			600 RT				
îme							
Volume		:					
Initials							
Time							
Volume							
Initials							
Manager Verification							
ntials and Time	T	T		1	1	T	

From:

Griswold, Jim, EMNRD

Sent:

Tuesday, August 1, 2017 2:15 PM

To:

Jones, Brad A., EMNRD

Subject:

Basin Disposal

Brad,

I just got off the phone with Sarah Holcomb over at the NMED (827-2798). She received a citizen complaint from Tammy Abbott (480-586-6843) regarding odor/air quality issues associated with Basin Disposal. Could you please give Ms. Abbott a call. Thanks. Sarah is also setting up a meeting soon for you and I to go over there and talk about hydrostatic test discharges.

Jim Griswold

Environmental Bureau Chief Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505.476.3465

email: jim.griswold@state.nm.us