HOOD PACKAGING CORPORATION
MADISON, MISSISSIPPI

Voluntary Remediation Program
Semiannual Progress Report No. 3
Hood Packaging Corporation Site
Valdosta, Georgia

Prepared By:
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April 20, 2018

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ENGINEERING CERTIFICATION

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering, and have sufficient training and experience in groundwater hydrology and related fields, as demonstrated by State registration and completion of accredited university courses, that enable me to make sound professional judgements regarding groundwater monitoring and contaminant fate-and-transport. I further certify that this report was prepared by myself or by a subordinate working under my direction.

Henry M. Rollins, P.E.
Georgia Registration No. 14285

4/18/18
Date

1.0 INTRODUCTION

This is the third Semiannual Progress Report being submitted under the Voluntary Remediation Program (VRP) on behalf of Hood Packaging Corporation (Hood) for the property known as Tract 2 located in the 900 block of River Street, Valdosta, Lowndes County, Georgia. The purpose of this report is to provide the Georgia Environmental Protection Division (EPD) with information concerning the activities accomplished on the site during the third six-month period since the site was approved for participation in the Georgia Voluntary Remediation Program, and to detail activities planned for the next six months.

2.0 BACKGROUND

Hood owns property in the 900 block on both sides of River Street in Valdosta, Georgia. Hood acquired a multi-wall bag manufacturing facility on the site in 1992 and operated the facility until May of 2009. The property consists of three parcels, known as Tracts 1, 2, and 3, all of which were listed on the Georgia Hazardous Site Inventory (HSI) as site 10089. Tracts 1 and 3 have been removed from the HSI by EPD, and Hood has sold Tract 3 to a third party. The site location is shown in Figure 1.

Unknown to Hood at the time of the 1992 acquisition, Tract 2 had been used for the manufacturing of fertilizer from the early 1900's to the 1970's. The site was listed on the HSI because of the presence of metals at levels exceeding the Georgia Hazardous Site Response Act (HSRA) notification thresholds.

Site investigations were conducted over a period of years that delineated the extent of contamination of the metals arsenic, lead, and barium in both soil and groundwater. A

site Compliance Status Report (CSR) was prepared in 1999 and a Corrective Action Plan was submitted in 2006.

In 2010, the EPA and EPD performed a Site Reconnaissance and Pre-CERCLIS Screening Assessment (PSA) of Tract 2. The PSA employed XRF technology, and the results indicated the presence of additional metals, at above HSRA notification levels, at several locations. Hood subsequently took samples at the locations identified in the PSA and subjected them to laboratory analysis. The results of these analyses found only one additional metal, zinc, at the location identified in previous investigations as Large Area 4, at concentrations exceeding the HSRA notification levels. Delineation for zinc at Large Area 4 to default Type 2 Risk Reduction Standards has now been completed.

Hood prepared and submitted a VRP Application and Investigation and Remediation Plan on September 12, 2014. The VRP application resulted in the issuance of Consent Order No. EPD-VRP-013, which, once executed, enrolled the site in the VRP program. This consent order was fully executed on September 20, 2016. Semiannual progress reports are due on April 20 and October 20 of each year.

3.0 ACTIVITIES COMPLETED IN THIS REPORTING PERIOD

3.1 Groundwater Activities

3.1.1 *Monitoring Well Repair*

Betts Environmental Recovery, Incorporated, of Adel, Georgia, mobilized to the site on November 13, 2017, to perform repairs to well MW-SB-4R which had been damaged. A new surface pad and protective casing was

installed. A new measuring point elevation was established. The location of all monitoring wells is shown on the drawing in Figure 2.

3.1.1 *Groundwater Sampling for Zinc Delineation*

Groundwater sampling was conducted on November 20 and 21, 2017, for the purpose of providing additional data on the groundwater concentrations of arsenic, lead, barium, and zinc, the previously determined constituents of concern. The following wells were sampled: MW-SB-1R, MW-SB-1A, MW-SB-2, MW-SB-2AR, MW-SB-4R, MW-SB-5, MW-SB-6, MW-SB-8, MW-SB-9, MW-SB-9A, MW-SB-12R, MW-SB-13, MW-SB-14, and MW-SB-15. Water levels were measured in the following additional wells: MW-SB-3, MW-SB-7, MW-SB-10, MW-SB-11, and MW-SB-16. Sampling was performed by Joe McVay, P.G. Field notes from the sampling event are found in Appendix A. The results from this sampling event, as well as historic events, are presented in Table 1. The laboratory reports are found in Appendix B. A drawing showing the measured concentrations at each well is found as Figure 7. Groundwater results for the November 2017, sampling were generally within expected ranges based on historical results. Results for well MW-SB-6, the most highly contaminated well, continued to show arsenic results at the low end of the historic range while the results for lead at this event were higher than previously seen. It is possible that this condition could be the result of fine particulate matter in the sample.

3.1.3 *Groundwater Levels and Equipotentials*

Groundwater elevation measurements were taken from the wells that were monitored during this semiannual period, as well as the remaining wells on Tract 2. These water levels, as well as historic levels, are presented in Table 2. The measured water level in well MW-SB-12R continues to be lower than expected based on the historic measurements of MW-SB-12, the well it replaced. It would appear that the original well, which was very shallow, was screened in a transient perched water zone that was not present when MW-SB-12R was installed.

A site drawing showing estimated groundwater equipotential lines is found in Figure 3. This drawing shows groundwater flow patterns similar to those in the past with a high point near the center of Tract 2.

3.2 Surface Water Activities

Surface water samples were taken while personnel were on-site to conduct the groundwater monitoring activities. The same two locations previously sampled, where the surface drain flows under the entrance road to the City park and slightly downstream where the drain passes under River Street, were sampled. Three additional surface water samples were taken further downstream where the drain passes beneath Magnolia Street, Lankford Drive, and Baytree Road. The sampling locations are shown on Figure 6.

The results from these recent surface water samples as well as historic results are found in Table 3. The laboratory report is found in Appendix B. The results of the

November 21, 2017, surface water sampling showed no impact from arsenic, lead, or barium at any location. The Park Road Ditch sample reported zinc at 89 ppb, slightly above the state surface water criteria, but the level was only 36.5 ppb a few yards downstream at the River Street sampling location. The zinc results going further downstream were 13.2 ppb at Magnolia Street, 29 ppb at the Lankford Street crossing, and 20.7 ppb at the Baytree Road location. These results suggest that background may be in the 15 to 35 ppb range.

3.3 Status of Large Area 4

Soil sampling for disposal characterization purposes was completed in the prior six-month period. The samples indicated that the soils were not hazardous and could be disposed of at the local landfill. Paperwork was submitted to the landfill and approval to dispose of the soils was granted.

Quotes for excavation of the soils and replacement with clean fill were obtained. The planned excavation and disposal and post-excavation sampling was discussed with EPD personnel. EPD personnel did not agree to the planned use of four composite samples, one to be taken from multiple locations on each of the four sides of the excavation, for post-excavation sampling purposes. Hood is concerned that the use of multiple discreet samples on each side of the excavation may result in difficulty in defining a clean boundary. For this reason, Hood is considering returning to its original plan to simply cap the area based on the previously established delineation sampling.

3.4 Status of Tree Removal Activities

Two of the areas of concern, Large Area 3 and Large Area 1, lie within the wooded portion of Tract 2 as can be seen on the drawing in Figure 2. In order to perform any capping or removal activities, the trees must be removed. In the prior reporting period, a logging contractor was employed to remove all of the merchantable timber on the site with the exception of a 50-foot buffer zone on the south property line that was required by the City of Valdosta. No soil disturbance activities were associated with the logging operation.

The logging operations left a substantial amount of woody debris and logging residuals. Contact was made during this reporting period with a contractor concerning removal or on-site burning of these materials. A quote is being prepared, and if acceptable, this work will be completed in the next reporting period.

4.0 PLANNED ACTIVITIES FOR THE NEXT REPORTING PERIOD

4.1 Groundwater Activities

The sampling of the 14 groundwater monitoring wells will be repeated during this six-month period. Water levels will also be taken from the other wells present on Tract 2.

The City of Valdosta has still not granted final permission to install a permanent well on City property in the park to the west of the site to function as the Point of

Demonstration Well as defined in OGGA 12-8-102(a)(10). An attempt will be made to meet with the City Manager during the next reporting period.

4.2 Surface Water Activities

Surface water sampling will be repeated during the next six-month period at the same five sampling locations for the metals of concern. In addition, an attempt will be made to obtain an upstream sample in the city park property.

4.3 Soil Characterization Activities

Soil samples were taken during the week of March 26 at the 75 locations shown on the drawing in Figure 4. Sampling was performed by Joe McVay, P.G., with Earth Systems, LLC, Milledgeville, GA, and Betts Environmental Recovery, Inc., of Adel, GA. Samples were taken from the surface to a depth of two feet. A volume-weighted composite sample was prepared for disposal characterization purposes. This sample is being subjected to a full TCLP analysis, and the sample is also being analyzed for PCB's at the landfill's request. These results will be provided in the next report. Hood will use these results to evaluate the feasibility of excavation and off-site disposal versus capping the areas.

5.0 VRP PROJECT MANAGEMENT

5.1 Professional Oversight

Oversight for this project is being provided by H. Martin Rollins, P.E. (Georgia #14285). A summary of hours committed to this project during the reporting

period is shown in the following table. Significant additional professional time was expended by contract personnel.

H. M. Rollins, P.E. (Georgia #14285)		
	Hours Invoiced	Work Completed
October 2017	78.2	Oversight of the work described in this report.
November 2017	56.5	
December 2017	40.4	
January 2018	5.5	
February 2018	7.0	
March 2018	15.6	

5.2 Project Schedule

All delineation activities are now complete. The project schedule submitted with the last report is presented in Figure 5. Project completion is still comfortably within the VRP completion guidance.

6.0 REFERENCES

H. M. Rollins Company, Inc., 1999.
Compliance Status Report. Prepared by H. M. Rollins Company, Inc., Last Revision September, 1999.

H. M. Rollins Company, Inc., 2006.
Corrective Action Plan. Prepared by H. M. Rollins Company, Inc., Last Revision May 1, 2006.

H. M. Rollins Company, Inc., 2014.
Voluntary Remediation Program, Application, Investigation, and Remediation Plan. Prepared by H. M. Rollins Company, Inc., September, 2014.

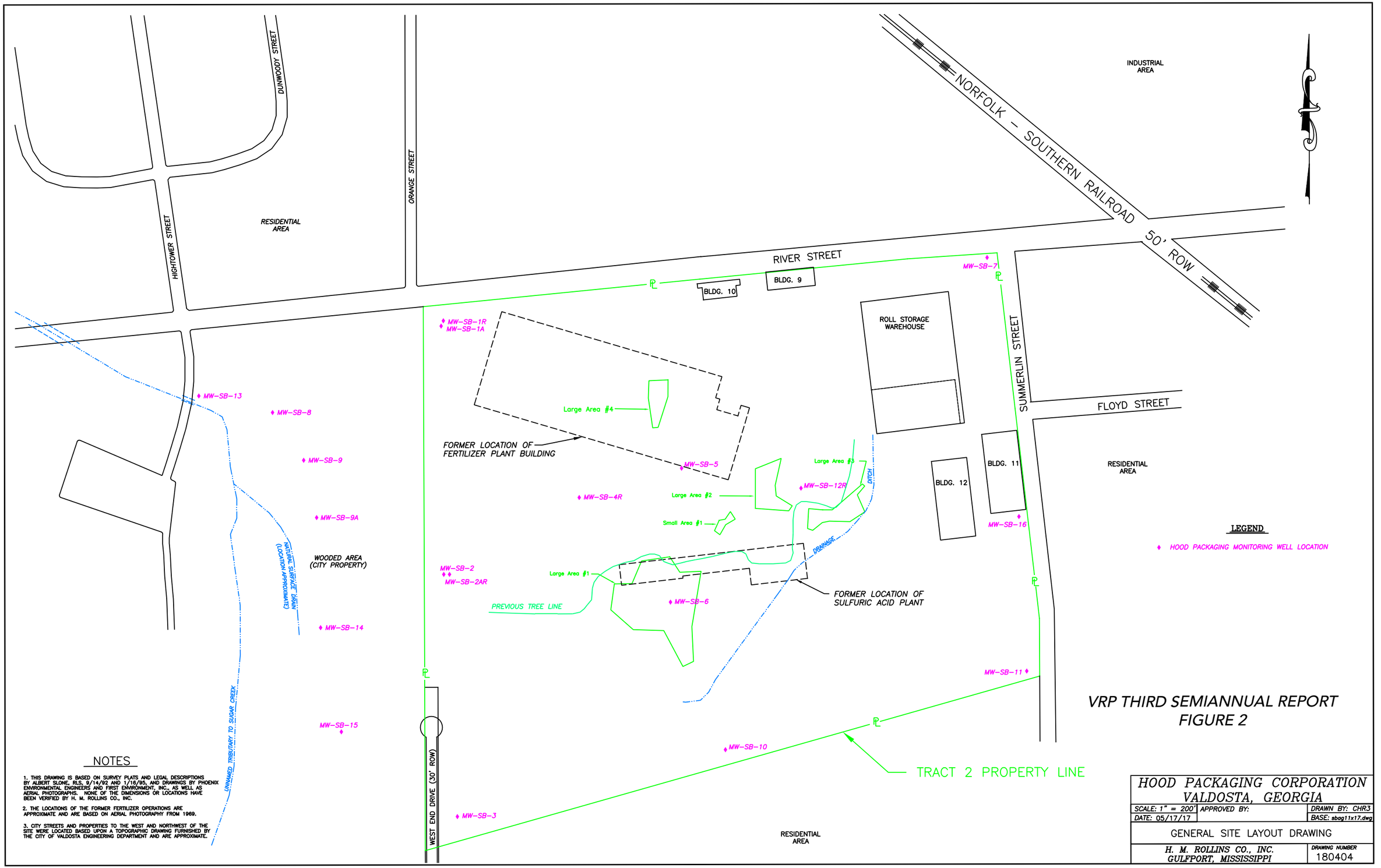
H. M. Rollins Company, Inc., 2017.
Voluntary Remediation Program, Semiannual Progress Report No. 1. Prepared by H. M. Rollins Company, Inc., April 20, 2017.

H. M. Rollins Company, Inc., 2018.
Voluntary Remediation Program, Semiannual Progress Report No. 2. Prepared by H. M. Rollins Company, Inc., October 20, 2017.

HOOD PACKAGING CORPORATION
VALDOSTA, GEORGIA

SITE LOCATION MAP

H.M. ROLLINS CO., INC. GULFPORT, MISSISSIPPI	U.S.G.S. TOPOGRAPHIC MAP QUAD: VALDOSTA 7.5 MINUTE SERIES
DRAWING NUMBER: 170315	Figure 1



NOTES

1. THIS DRAWING IS BASED ON SURVEY PLATS AND LEGAL DESCRIPTIONS BY ALBERT SLONE, RLS, 9/14/92 AND 1/16/85, AND DRAWINGS BY PHOENIX ENVIRONMENTAL ENGINEERS AND FIRST ENVIRONMENT, INC., AS WELL AS AERIAL PHOTOGRAPHS. NONE OF THE DIMENSIONS OR LOCATIONS HAVE BEEN VERIFIED BY H. M. ROLLINS CO., INC.

2. THE LOCATIONS OF THE FORMER FERTILIZER OPERATIONS ARE APPROXIMATE AND ARE BASED ON AERIAL PHOTOGRAPHY FROM 1969.

3. CITY STREETS AND PROPERTIES TO THE WEST AND NORTHWEST OF THE SITE WERE LOCATED BASED UPON A TOPOGRAPHIC DRAWING FURNISHED BY THE CITY OF VALDOSTA ENGINEERING DEPARTMENT AND ARE APPROXIMATE.

VRP THIRD SEMIANNUAL REPORT
FIGURE 2

HOOD PACKAGING CORPORATION VALDOSTA, GEORGIA		
SCALE: 1" = 200'	APPROVED BY:	DRAWN BY: CHR3
DATE: 05/17/17		BASE: sbag11x17.dwg
GENERAL SITE LAYOUT DRAWING		
H. M. ROLLINS CO., INC. GULFPORT, MISSISSIPPI		DRAWING NUMBER 180404

TRACT 1 PROPERTY LINES TRUNCATED BY LIMITS OF DRAWING BORDER.

TRACT 1

CHAINLINK FENCE

WATER WELL

MULTIWALL BAG PLANT BUILDINGS 3,4,5,6,&7

INDUSTRIAL AREA

NORFOLK - SOUTHERN RAILROAD

50' ROW

DUNWOODY STREET

HIGHTOWER STREET

ORANGE STREET

RESIDENTIAL AREA

RIVER STREET

BLDG. 10

BLDG. 9

ROLL STORAGE WAREHOUSE

SUMMERLIN STREET

FLOYD STREET

BLDG. 11

BLDG. 12

RESIDENTIAL AREA

MW-SB-7
182.27

MW-SB-1R
MW-SB-1A
179.91
181.03

MW-SB-13
175.08

MW-SB-8
176.47

MW-SB-9
177.46

MW-SB-9A
178.37

MW-SB-14
177.81

MW-SB-15
181.06

MW-SB-3
181.31

MW-SB-2
MW-SB-2AR
181.14
181.43

MW-SB-4R
182.55

MW-SB-5
189.54

MW-SB-6
189.00

MW-SB-10
182.66

MW-SB-11
183.06

MW-SB-12R
183.54

MW-SB-16
188.50

Large Area #1

Large Area #2

Large Area #3

Large Area #4

Small Area #1

FORMER LOCATION OF FERTILIZER PLANT BUILDING

FORMER LOCATION OF SULFURIC ACID PLANT

WOODED AREA (CITY PROPERTY)

NATURAL SURFACE DRAIN (LOCATION APPROXIMATE)

UNNAMED TRIBUTARY TO SUGAR CREEK

WEST END DRIVE (30' ROW)

TRACT 2 PROPERTY LINE

177 178 179 180 181 182 183 184 185 186 187 188 189

NOTES

1. THIS DRAWING IS BASED ON SURVEY PLATS AND LEGAL DESCRIPTIONS BY ALBERT SLONE, RLS, 9/14/92 AND 1/16/95, AND DRAWINGS BY PHOENIX ENVIRONMENTAL ENGINEERS AND FIRST ENVIRONMENT, INC., AS WELL AS AERIAL PHOTOGRAPHS. NONE OF THE DIMENSIONS OR LOCATIONS HAVE BEEN VERIFIED BY H. M. ROLLINS CO., INC.

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LEGEND

♦ HOOD PACKAGING MONITORING WELL LOCATION

–188– GROUNDWATER CONTOURS AND ELEVATIONS

VRP THIRD SEMIANNUAL REPORT
FIGURE 3

HOOD PACKAGING CORPORATION
VALDOSTA, GEORGIA

SCALE: 1" = 200'	APPROVED BY:	DRAWN BY: TRC
DATE: 04/03/18		BASE:

SITE DRAWING SHOWING GROUNDWATER CONTOURS ON NOVEMBER 21, 2017

H. M. ROLLINS CO., INC.
GULFPORT, MISSISSIPPI

DRAWING NUMBER
180403

RESIDENTIAL AREA

HIGHTOWER STREET

DUNWOODY STREET

ORANGE STREET

MULTIWALL BAG PLANT
BUILDINGS 3,4,5,6,&7

WATER WELL

NORFOLK – SOUTHERN RAILROAD 50' ROW

INDUSTRIAL AREA

RIVER STREET

BLDG. 10

BLDG. 9

MW-SB-7

MW-SB-1R

MW-SB-1A

ROLL STORAGE WAREHOUSE

SUMMERLIN STREET

FLOYD STREET

BLDG. 12

BLDG. 11

RESIDENTIAL AREA

MW-SB-16

MW-SB-13

MW-SB-8

MW-SB-9

MW-SB-9A

WOODED AREA
(CITY PROPERTY)

NATURAL SURFACE DRAIN
(LOCATION APPROXIMATE)

MW-SB-14

MW-SB-15

UNNAMED TRIBUTARY TO SUGAR CREEK

FORMER LOCATION OF
FERTILIZER PLANT BUILDING

MW-SB-5

MW-SB-12R

MW-SB-4R

Large Area #4

Large Area #3

Large Area #2

Large Area #1

Small Area #5

Typical Soil Sampling Point

187,500 sf Area

MW-SB-2

MW-SB-2AR

MW-SB-6

Former Tree Line

FORMER LOCATION OF
SULFURIC ACID PLANT

DRAINAGE DITCH

MW-SB-11

MW-SB-10

TRACT 2 PROPERTY LINE

WEST END DRIVE (30' ROW)

MW-SB-3

RESIDENTIAL AREA

LEGEND

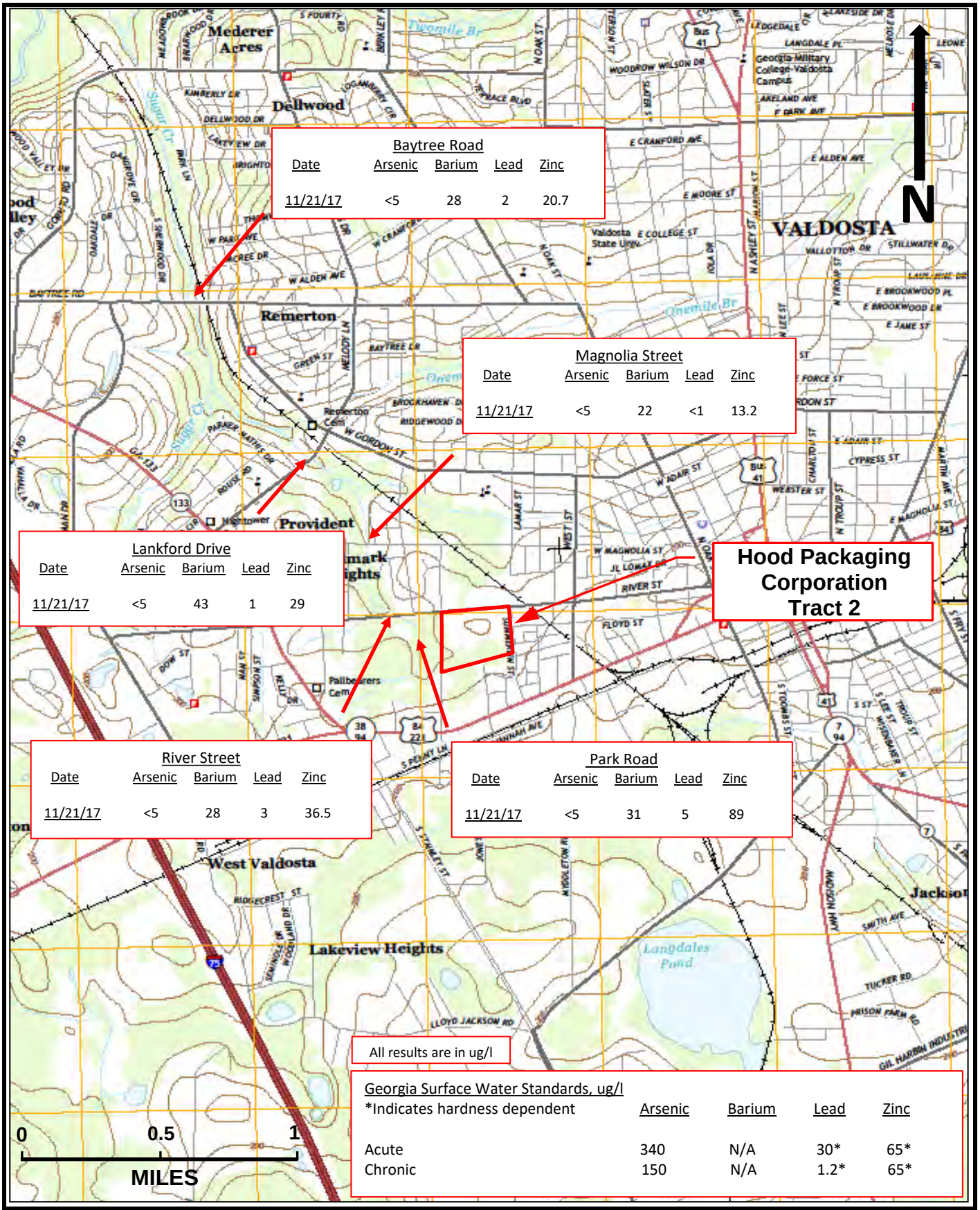
♦ HOOD PACKAGING MONITORING WELL LOCATION

VRP THIRD SEMIANNUAL REPORT
FIGURE 4

HOOD PACKAGING CORPORATION VALDOSTA, GEORGIA		
SCALE: 1" = 200'	APPROVED BY:	DRAWN BY: CHR3
DATE: 11/27/17		BASE: sbag11x17.dwg
SOIL DISPOSAL CHARACTERIZATION SAMPLING		
H. M. ROLLINS CO., INC. GULFPORT, MISSISSIPPI		DRAWING NUMBER 180418

HOOD PACKAGING CORPORATION
VRP Corrective Action Implementation Schedule

Task	Duration	Month 1	Month 2	Month 3	Month 4	Month 5	Month 6	Month 7	Month 8	Month 9	Month 10	Month 11	Month 12	Month 13	Month 14	Month 15	Month 16	Month 17	Month 18	Month 19	Month 20	Month 21	Month 22	Month 23	Month 24	Month 25	Month 26	Month 27	Month 28	Month 29	Month 30	Month 31	Month 32	Month 33	Month 34	Month 35
VRP Acceptance	-																																			
Complete Soil Delineation for Zinc	6 months																																			
Complete Groundwater Delineation for Zinc	6 months																																			
Soil Sampling for Disposal Characterization	6 months																																			
Prepare Corrective Action Plan	5 months																																			
Choose Contractors	2 months																																			
Complete Preliminary Site Work	3 months																																			
Complete Groundwater pH Adjustment	3 months																																			
Install Cap System or Excavate & Dispose Offsite	7 months																																			
Complete Survey and Environmental Covenants	3 months																																			
Prepare and Submit Final CSR	7 months																																			



HOOD PACKAGING CORPORATION
VALDOSTA, GEORGIA

SITE LOCATION MAP

H.M. ROLLINS CO., INC. GULFPORT, MISSISSIPPI	U.S.G.S. TOPOGRAPHIC MAP QUAD: VALDOSTA 7.5 MINUTE SERIES
DRAWING NUMBER: 180413	Figure 6

TRACT 1 PROPERTY LINES TRUNCATED BY LIMITS OF DRAWING BORDER.

TRACT 1

CHAINLINK FENCE

WATER WELL

MULTIWALL BAG PLANT BUILDINGS 3,4,5,6,&7

INDUSTRIAL AREA

NORFOLK – SOUTHERN RAILROAD

50' ROW

DUNWOODY STREET

ORANGE STREET

HIGHTOWER STREET

RESIDENTIAL AREA

RIVER STREET

BLDG. 10

BLDG. 9

ROLL STORAGE WAREHOUSE

SUMMERLIN STREET

FLOYD STREET

BLDG. 11

BLDG. 12

RESIDENTIAL AREA

MW-SB-1R
MW-SB-1A
As <5 µg/L
Ba 11 µg/L
Pb <1 µg/L
Zn 1090 µg/L

As <5 µg/L
Ba 35 µg/L
Pb <1 µg/L
Zn 15 µg/L

MW-SB-7

MW-SB-13
As 57 µg/L
Ba 221 µg/L
Pb 16 µg/L
Zn 188 µg/L

MW-SB-8
As <5 µg/L
Ba 33 µg/L
Pb <1 µg/L
Zn 3120 µg/L

MW-SB-9
As <5 µg/L
Ba 18 µg/L
Pb <1 µg/L
Zn 2980 µg/L

MW-SB-9A
As <5 µg/L
Ba 11 µg/L
Pb <1 µg/L
Zn 5970 µg/L

WOODED AREA (CITY PROPERTY)

NATURAL SURFACE DRAIN (LOCATION APPROXIMATE)

MW-SB-14
As 29 µg/L
Ba 71 µg/L
Pb 173 µg/L
Zn 388 µg/L

MW-SB-15
As <5 µg/L
Ba 31 µg/L
Pb <1 µg/L
Zn <10 µg/L

UNNAMED TRIBUTARY TO SUGAR CREEK

Large Area #4

FORMER LOCATION OF FERTILIZER PLANT BUILDING

As 56 µg/L
Ba <10 µg/L
Pb <1 µg/L
Zn 1810 µg/L
MW-SB-5

Large Area #3

MW-SB-12R
As <5 µg/L
Ba <10 µg/L
Pb <1 µg/L
Zn 46 µg/L

MW-SB-4R
As <5 µg/L
Ba <10 µg/L
Pb <1 µg/L
Zn 1770 µg/L

Large Area #2

Small Area #1

As 9 µg/L
Ba 19 µg/L
Pb 3 µg/L
Zn 578 µg/L
MW-SB-2
MW-SB-2AR
As <5 µg/L
Ba 13 µg/L
Pb <1 µg/L
Zn 14700 µg/L

Large Area #1

MW-SB-6
As 131 µg/L
Ba 14 µg/L
Pb 2670 µg/L
Zn 2610 µg/L

FORMER LOCATION OF SULFURIC ACID PLANT

MW-SB-16

MW-SB-11

MW-SB-10

TRACT 2 PROPERTY LINE

WEST END DRIVE (30' ROW)

MW-SB-3

RESIDENTIAL AREA

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LEGEND

♦ HOOD PACKAGING MONITORING WELL LOCATION

TABLE OF SITE DELINEATION VALUES

	GROUNDWATER (µg/L)
As	10
Ba	2,000
Pb	15
Zn	2,000

VRP THIRD SEMIANNUAL REPORT
FIGURE 7

HOOD PACKAGING CORPORATION
VALDOSTA, GEORGIA

SCALE: 1" = 200'	APPROVED BY:	DRAWN BY: TRC
DATE: 04/02/18		BASE:

GROUNDWATER SAMPLING
RESULTS FROM NOVEMBER 20–21, 2017

H. M. ROLLINS CO., INC.
GULFPORT, MISSISSIPPI

DRAWING NUMBER
180402

TABLE 1

Hood Packaging Corporation
Valdosta, Georgia
Summary of Analytical Results - Monitoring Wells

		Metals, µg/l				
HSRA Type 1 Standards (µg/l)		10	2000	15	2000	
Well No.	Date	Arsenic	Barium	Lead	Zinc	Notes
MW-SB-1	5/24/1997	<5	43	55		
MW-SB-1	5/24/1997	<5	41	54		DUPLICATE
MW-SB-1	8/27/1997	<5	61	31		
MW-SB-1	8/27/1997	<5	64	29		
MW-SB-1	10/17/1997	<5	53	46		
MW-SB-1	7/26/2001	<5	127	42		
MW-SB-1	3/7/2006	24	77	64		
MW-SB-1	3/7/2006	<5	21	<5		FILTERED IN LAB
MW-SB-1R	4/20/2017	<5	44	<1	14	
MW-SB-1R	11/21/2017	<5	35	<1	15	
MW-SB-1A	10/17/1997	<5	87	<5		
MW-SB-1A	10/17/1997	<5	115	<5		DUPLICATE
MW-SB-1A	7/26/2001	<50	35	<5		
MW-SB-1A	3/7/2006	<5	72	<5		
MW-SB-1A	3/7/2006	<5	14	<5		FILTERED IN LAB
MW-SB-1A	4/20/2017	<5	13	<1	374	
MW-SB-1A	11/21/2017	<5	11	<1	1,090	
MW-SB-2	5/24/1997	6	71	<5		
MW-SB-2	5/24/1997	15	72	10		DUPLICATE
MW-SB-2	8/27/1997	7	27	<5		
MW-SB-2	10/14/1997	13		<5		
MW-SB-2	7/26/2001	10	13	<5		
MW-SB-2	3/7/2006	40	32	<5		
MW-SB-2	3/7/2006	36	<10	<5		FILTERED IN LAB
MW-SB-2	4/19/2017	9	26	<1	526	
MW-SB-2	11/20/2017	9	19	3	578	
MW-SB-2A	10/14/1997	<10		<5		

Prepared by: H. M. Rollins Co., Inc.
Gulfport, Mississippi

TABLE 1

Hood Packaging Corporation
Valdosta, Georgia
Summary of Analytical Results - Monitoring Wells

		Metals, µg/l				
HSRA Type 1 Standards (µg/l)		10	2000	15	2000	
Well No.	Date	Arsenic	Barium	Lead	Zinc	Notes
MW-SB-2A	10/8/1998	<5	37	<5		
MW-SB-2A	10/8/1998	<5	37	<5		DUPLICATE
MW-SB-2A	7/26/2001	<250	<10	<5		
MW-SB-2A	3/7/2006	<5	11	<5		
MW-SB-2A	3/7/2006	<5	<10	<5		FILTERED IN LAB
MW-SB-2AR	4/19/2017	<5	43	<1	408	
MW-SB-2AR	11/20/2017	<5	13	<1	14,700	
MW-SB-3	5/24/1997	<5	30	<5		
MW-SB-3	5/24/1997	<5	36	<5		DUPLICATE
MW-SB-3	8/27/1997	<5	38	<5		
MW-SB-3	7/26/2001	<5	186	13		
MW-SB-3	10/4/2001			14		
MW-SB-3	10/4/2001			<5		FILTERED
MW-SB-3	10/4/2001			16		DUPLICATE
MW-SB-3	10/4/2001			<5		DUPLICATE / FILTERED
MW-SB-4	10/16/1997	<5	22	<5		
MW-SB-4	10/16/1997	<5	31	<5		DUPLICATE
MW-SB-4	7/26/2001	<25	21	<5		
MW-SB-4R	4/20/2017	<5	<10	<1	2,230	
MW-SB-4R	11/20/2017	<5	<10	<1	1,770	
MW-SB-5	10/16/1997	<5	67	<5		
MW-SB-5	10/16/1997	<5	103	<5		DUPLICATE
MW-SB-5	7/26/2001	26	<10	<5		
MW-SB-5	4/20/2017	39	<10	<1	1,180	
MW-SB-5	11/20/2017	56	<10	<1	1,810	
MW-SB-6	10/16/1997	2,660	358	64		
MW-SB-6	10/16/1997	2,720	350	62		DUPLICATE

Prepared by: H. M. Rollins Co., Inc.
Gulfport, Mississippi

TABLE 1

Hood Packaging Corporation
Valdosta, Georgia
Summary of Analytical Results - Monitoring Wells

		Metals, µg/l				
HSRA Type 1 Standards (µg/l)		10	2000	15	2000	
Well No.	Date	Arsenic	Barium	Lead	Zinc	Notes
MW-SB-6	7/26/2001	2,520	<10	810		
MW-SB-6	3/7/2006	717	<10	434		
MW-SB-6	3/7/2006	700	<10	403		FILTERED IN LAB
MW-SB-6	4/20/2017	72	11	464	1,920	
MW-SB-6	11/21/2017	131	14	2,670	2,610	
MW-SB-7	10/16/1997	<5	36	<5		
MW-SB-7	10/16/1997	<5	89	<5		DUPLICATE
MW-SB-7	10/8/1998	<5	17	<5		
MW-SB-7	10/8/1998	<5	13	<5		DUPLICATE
MW-SB-7	7/26/2001	<5	24	<5		
MW-SB-8	10/17/1997	<5	89	7		
MW-SB-8	10/17/1997	<5	85	7		DUPLICATE
MW-SB-8	10/17/1997			5		FILTERED
MW-SB-8	10/8/1998	<5	47	<5		
MW-SB-8	10/8/1998	<5	44	<5		DUPLICATE
MW-SB-8	7/25/2001	<50	59	5		
MW-SB-8	3/8/2006	<5	49	<5		
MW-SB-8	3/8/2006	<5	46	<5		FILTERED IN LAB
MW-SB-8	4/19/2017	<5	54	6	2,230	
MW-SB-8	11/20/2017	<5	33	<1	3,120	
MW-SB-9	10/17/1997	<5	51	<5		
MW-SB-9	10/17/1997	<5	67	<5		DUPLICATE
MW-SB-9	7/26/2001	<50	31	<5		
MW-SB-9	3/8/2006	<5	18	<5		
MW-SB-9	3/8/2006	<5	14	<5		FILTERED IN LAB
MW-SB-9	4/19/2017	<5	61	4	2,270	
MW-SB-9	11/20/2017	<5	18	<1	2,980	

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Gulfport, Mississippi

TABLE 1

Hood Packaging Corporation
Valdosta, Georgia
Summary of Analytical Results - Monitoring Wells

		Metals, µg/l				
HSRA Type 1 Standards (µg/l)		10	2000	15	2000	
Well No.	Date	Arsenic	Barium	Lead	Zinc	Notes
MW-SB-9A	11/19/1997	<5	23	<5		
MW-SB-9A	11/19/1997	<5	22	<5		DUPLICATE
MW-SB-9A	11/19/1997	<5	15	<5		FILTERED
MW-SB-9A	7/26/2001	<50	12	<5		
MW-SB-9A	3/8/2006	<5	<10	<5		
MW-SB-9A	3/8/2006	<5	<10	<5		FILTERED IN LAB
MW-SB-9A	4/19/2017	<5	11	<1	4,390	
MW-SB-9A	11/20/2017	<5	11	<1	5,970	
MW-SB-10	10/17/1997	<5	57	<5		
MW-SB-10	10/17/1997	<5	64	<5		DUPLICATE
MW-SB-10	7/26/2001	<5	110	<5		
MW-SB-11	11/19/1997	<5	59	<5		
MW-SB-11	11/19/1997	<5	60	<5		DUPLICATE
MW-SB-11	11/19/1997	<5	64	7		FILTERED
MW-SB-11	10/9/1998	<5	52	<5		
MW-SB-11	10/9/1998	<5	55	<5		DUPLICATE
MW-SB-11	7/26/2001	<5	73	<5		
MW-SB-12	11/19/1997	15	16	<5		
MW-SB-12	11/19/1997	17	15	<5		DUPLICATE
MW-SB-12	11/19/1997	20	16	<5		FILTERED
MW-SB-12	7/26/2001	29	<10	<5		
MW-SB-12R	4/20/2017	7	187	4	44	
MW-SB-12R	11/20/2017	<5	<10	<1	46	
MW-SB-13	11/19/1997	14	50	9		
MW-SB-13	11/19/1997	16	51	8		DUPLICATE
MW-SB-13	11/19/1997	20	50	<5		FILTERED
MW-SB-13	10/8/1998	16	76	67		

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Gulfport, Mississippi

TABLE 1

Hood Packaging Corporation
Valdosta, Georgia
Summary of Analytical Results - Monitoring Wells

		Metals, µg/l				
HSRA Type 1 Standards (µg/l)		10	2000	15	2000	
Well No.	Date	Arsenic	Barium	Lead	Zinc	Notes
MW-SB-13	10/8/1998	15	72	52		DUPLICATE
MW-SB-13	10/8/1998	14	68	<5		FILTERED
MW-SB-13	7/26/2001	16	123	158		
MW-SB-13	3/8/2006	13	102	29		
MW-SB-13	3/8/2006	<5	89	16		FILTERED IN LAB
MW-SB-13	4/20/2017	21	90	39	359	
MW-SB-13	11/21/2017	57	221	16	188	
MW-SB-14	11/19/1997	41	149	212		
MW-SB-14	11/19/1997	41	139	191		DUPLICATE
MW-SB-14	11/19/1997	49	140	136		FILTERED
MW-SB-14	10/8/1998	50	79	211		
MW-SB-14	10/8/1998	51	80	249		DUPLICATE
MW-SB-14	7/26/2001	72	60	144		
MW-SB-14	3/8/2006	32	25	96		
MW-SB-14	3/8/2006	38	18	63		FILTERED IN LAB
MW-SB-14	4/19/2017	30	42	144	108	
MW-SB-14	11/20/2017	29	71	173	388	
MW-SB-15	10/9/1998	<5	54	<5		
MW-SB-15	10/9/1998	<5	38	<5		FILTERED
MW-SB-15	7/26/2001	<5	62	<5		
MW-SB-15	3/8/2006	<5	59	<5		
MW-SB-15	3/8/2006	<5	27	<5		FILTERED IN LAB
MW-SB-15	4/19/2017	<5	34	<1	<10	
MW-SB-15	11/20/2017	<5	31	<1	<10	
MW-SB-16	10/9/1998	<5	36	<5		
MW-SB-16	10/9/1998	<5	38	<5		DUPLICATE
MW-SB-16	7/26/2001	<5	36	<5		

Prepared by: H. M. Rollins Co., Inc.
Gulfport, Mississippi

TABLE 2

Hood Packaging Corporation

Valdosta, Georgia

Table of Groundwater Elevations

DATE OF MEASUREMENT:		5/24/1997		8/26/1997		10/16/1997		11/19/1997		10/9/1998		5/8/2001		7/25/2001		10/4/2001		3/8/2006		4/19/2017		11/21/2017	
WELL	ELEV, MP, feet NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD	DIST TO WATER, ft	GW ELEV, ft NGVD
MW-SB-1	189.28	6.85	182.43	6.64	182.64	7.93	181.35	4.79	184.49	4.88	184.40	8.36	180.92	6.21	183.07	8.98	180.30	5.92	183.36				
MW-SB-1R	188.56																			8.10	180.46	8.65	179.91
MW-SB-1A	189.25							3.70	185.55	4.93	184.32	7.97	181.28	6.12	183.13	8.46	180.79	5.48	183.77	5.63	183.62	8.22	181.03
MW-SB-2	188.52	6.18	182.34	5.89	182.63	7.30	181.22	4.02	184.50	4.48	184.04	7.81	180.71	5.56	182.96	7.88	180.64	5.43	183.09	7.35	181.17	7.38	181.14
MW-SB-2A	188.58					7.33	181.25	3.28	185.30	5.30	183.28	7.57	181.01	6.10	182.48	7.79	180.79	5.13	183.45				
MW-SB-2AR	188.21																			6.56	181.65	6.78	181.43
MW-SB-3	192.32	9.61	182.71	8.97	183.35	11.03	181.29	6.99	185.33	8.22	184.10	11.41	180.91	9.23	183.09	11.64	180.68	8.21	184.11			11.01	181.31
MW-SB-4	192.88					6.66	186.22	2.50	190.38	3.15	189.73	6.27	186.61	4.05	188.83	6.80	186.08						
MW-SB-4R	193.44																			11.35	182.09		
MW-SB-4R*	193.87																					11.32	182.55
MW-SB-5	197.53					8.67	188.86	4.00	193.53	3.66	193.87	7.63	189.90	5.77	191.76	8.26	189.27	5.40	192.13	8.50	189.03	7.99	189.54
MW-SB-6	194.76					11.50	183.26	4.46	190.30	4.66	190.10	11.72	183.04	5.61	189.15	12.46	182.30	5.82	188.94	10.31	184.45	5.76	189.00
MW-SB-7	196.40					13.82	182.58	9.14	187.26	11.46	184.94	13.90	182.50	12.49	183.91	14.67	181.73	12.27	184.13			14.13	182.27
MW-SB-8	180.10					2.63	177.47	2.32	177.78	2.30	177.80	5.66	174.44	2.91	177.19	4.94	175.16	2.84	177.26	3.19	176.91	3.63	176.47
MW-SB-9	182.25					3.46	178.79	3.04	179.21	3.19	179.06	6.09	176.16	3.80	178.45	5.61	176.64	3.95	178.30	5.48	176.77	4.79	177.46
MW-SB-9A	183.86							3.49	180.37	3.56	180.30	6.06	177.80	4.12	179.74	5.86	178.00	4.25	179.61	5.61	178.25	5.49	178.37
MW-SB-10	193.04					10.77	182.27	6.10	186.94	6.53	186.51	10.86	182.18	8.76	184.28	11.36	181.68	7.98	185.06			10.38	182.66
MW-SB-11	199.38							11.21	188.17	15.02	184.36	16.37	183.01	15.30	184.08	17.10	182.28	8.76	190.62			16.32	183.06
MW-SB-12	199.08							3.96	195.12	4.00	195.08	7.68	191.40	6.72	192.36	7.88	191.20						
MW-SB-12R	198.83																			15.64	183.19	15.29	183.54
MW-SB-13	179.49							3.33	176.16	3.25	176.24	5.86	173.63	3.42	176.07	5.71	173.78	3.20	176.29	2.90	176.59	4.41	175.08
MW-SB-14	183.66							2.84	180.82	2.95	180.71	5.06	178.60	3.08	180.58	4.74	178.92	3.66	180.00	5.87	177.79	5.85	177.81
MW-SB-15	186.17									3.40	182.77	5.93	180.24	3.70	182.47	5.84	180.33	3.77	182.40	5.16	181.01	5.11	181.06
MW-SB-16	198.55									7.84	190.71	9.51	189.04	8.22	190.33	9.64	188.91	13.28	185.27			10.05	188.50

* New elevation after repair

TABLE 3

Hood Packaging Corporation
Valdosta, Georgia
Surface Water Sampling Results

		Arsenic	Barium	Lead	Zinc
Georgia Surface Water Standards, µg/l	Acute	340	N/A	30*	65*
* indicates hardness dependent	Chronic	150	N/A	1.2*	65*
Date	**Sample ID**	All results in µg/l.			
11/21/17	Park Road Ditch	<5	31	5	89
04/20/17	Park Road Ditch	<5	38.6	1.68	134
11/16/16	Park Road Ditch	2		2	<20
07/25/01	Park Road Ditch	7	58	41	
05/09/01	Park Road Ditch	<5	30	6	
08/10/99	Park Road Ditch	12	69	67	
11/17/97	Park Road Ditch	5	46	32	
11/21/17	River Street Ditch	<5	28	3	36.5
04/20/17	River Street Ditch	<5	39.7	19.6	113
11/16/16	River Street Ditch	2		3	<20
07/25/01	River Street Ditch	<5	56	15	
05/09/01	River Street Ditch	<5	56	32	
08/10/99	River Street Ditch	<5	30	13	
11/17/97	River Street Ditch	5	63	34	
11/21/17	Magnolia Street Ditch	<5	22	<1	13.2
03/07/06	Magnolia Street Ditch	<5	35	<5	
05/09/01	Magnolia Street Ditch	<5	30	<5	
11/21/17	Lankford Drive Ditch	<5	43	1	29
05/09/01	Lankford Drive Ditch	<5	50	<5	
11/21/17	Baytree Road Ditch	<5	28	2	20.7
05/09/01	Baytree Road Ditch	<5	30	<5	

TABLE 4

Monitoring Well Construction Details
Hood Packaging Corporation
Valdosta, Georgia

Well No.	Total Depth (feet, BLS)	Screen Length (feet)	Construction	Measuring Point Elevation (feet NGVD)
MW-SB-1R	30	10	2" PVC	188.56
MW-SB-1A	51	10	2" PVC	189.25
MW-SB-2	13	10	2" PVC	188.52
MW-SB-2AR	33.5	10	2" PVC	188.21
MW-SB-3	17	10	2" PVC	192.32
MW-SB-4R	24.4	10	2" PVC	193.87
MW-SB-5	11	5	2" PVC	197.53
MW-SB-6	17	10	2" PVC	194.76
MW-SB-7	24	10	2" PVC	196.40
MW-SB-8	13	5	2" PVC	180.10
MW-SB-9	13	5	2" PVC	182.25
MW-SB-9A	12	10	2" PVC	183.86
MW-SB-10	19	10	2" PVC	193.04
MW-SB-11	22	15	2" PVC	199.38
MW-SB-12R	19	10	2" PVC	198.83
MW-SB-13	12.5	10	2" PVC	179.49
MW-SB-14#	6.5	5	2" PVC	183.66
MW-SB-15	7	5	2" PVC	186.17
MW-SB-16	15	10	2" PVC	198.55

Appendix A

11/20/17

SB-12R

▽ = 15.29'

21.5 - 15.29 = 6.21

6.21 x .48 = 2.98

Ph	Temp	Cond	Turb	Time	gal
5.14	23.45	0.010	8.81	0820	.5
5.06	23.94	0.010	10.20	0829	1.5
5.00	24.26	0.009	9.66	0835	2.0
4.92	24.24	0.009	6.54	0844	2.5
4.88	25.09	0.008	2.12	0850	3.0
4.85	25.28	0.007	1.76	0859	3.5
			Sample	0905	

SB-5

▽ = 7.99'

13.00 - 7.99 = 5.01

5.01 x .48 = 2.40

Ph	Temp	Cond	Turb	Time	gal
4.75	28.91	0.012	23.2	0920	.5
4.58	27.91	0.042	20.05	0931	1.0
4.29	27.56	0.005	17.69	0939	1.5
4.19	27.37	0.004	16.58	0946	2.0
4.23	27.15	0.007	10.5	0955	2.5
4.19	27.37	0.009	9.45	1001	3.0
4.21	27.26	0.007	4.07	1010	3.5
			Sample	1015	

11/20/17

SB-4R

▽ 11.32

27.1 - 11.32 = 15.78

15.78 x .48 = 7.57

Ph	Temp	Cond	Turb	Time	gal
3.96	19.4	1.019	36	1030	1.0
3.89	20.65	1.07	21	1046	2.0
3.73	20.63	1.087	9.81	1059	3.0
3.72	20.66	1.103	5.63	1110	4.0
3.71	20.56	1.107	3.21	1121	5.0
3.69	20.56	1.114	4.27	1129	6.0
3.70	20.59	1.116	3.11	1136	7.0
			Sample	1139	

SB-2AR

▽ 6.78

35' - 6.78 = 28.22

28.22 x .48 = 13.54

Ph	Temp	Cond	Turb	Time	gal
3.31	19.77	2.215	78	1151	1
3.34	20.34	2.057	55	1201	2
3.33	20.49	2.173	42	1212	4
3.32	20.30	2.196	21	1218	6
3.31	20.50	2.206	9.51	1235	8
3.32	20.41	2.213	3.47	1251	10
3.32	20.47	2.205	3.41	1306	12
3.33	20.43	2.198	3.25	1314	14
			Sample	1318	

11/20/17

SB-2

▽ 7.38

15 - 7.38 = 7.62

7.62 x .48 = 3.65

Ph	Temp	Cond	Turb	Time	Sal
3.9	21.24	0.526	6.3	1325	.5
3.83	21.25	0.527	21	1331	1
3.81	21.24	0.527	16	1338	1.5
3.83	21.25	0.524	8.54	1344	2
4.04	21.39	0.504	4.87	1349	2.5
3.93	21.35	0.508	5.21	1355	3.0
4.15	21.47	0.422	4.33	1401	3.5
			Sample	1404	

SB-8

▽ 3.63

9 - 3.63 = 5.37

5.37 x .48 = 2.57

Ph	Temp	Cond	Turb	Time	Sal
3.82	19.77	2.506	24	1418	.5
3.73	20.20	2.609	11	1424	1
3.71	20.11	2.617	5.65	1430	1.5
3.75	20.13	2.608	4.03	1436	2
3.76	20.17	2.549	2.51	1442	2.5
			Sample	1445	

11/20/17

SB-9

▽ 4.79

13 - 4.79 = 8.21

8.21 x .48 = 3.94

Ph	Temp	Cond	Turb	Time	Sal
3.43	20.13	1.257	25	1454	.5
3.46	20.17	1.256	21	1459	1
3.48	20.49	1.223	9.02	1505	1.5
3.54	20.55	1.246	8.59	1511	2
3.63	20.53	1.224	8.31	1518	2.5
3.55	20.64	1.260	6.52	1524	3
3.62	20.66	1.266	3.71	1532	3.5
3.55	20.64	1.270	3.82	1538	4
			Sample	1541	

SB-9A

▽ 5.49

12 - 5.49 = 6.51

6.51 x .48 = 3.12

Ph	Temp	Cond	Turb	Time	Sal
3.47	21.12	1.855	15	1549	.5
3.46	21.05	1.858	9.58	1555	1
3.58	21.02	1.851	4.31	1559	1.5
3.52	20.97	1.869	4.56	1605	2
3.51	20.92	1.866	4.10	1611	2.5
3.54	20.93	1.861	3.59	1617	3
			Sample	1619	

11/20/17

SB-14

▽ 5.85

9 - 5.85 = 3.15

3.15 X .48 = 1.51

Ph	Temp	Cond	Turb	Time	gal
3.77	20.64	0.214	65	1630	.5
3.81	20.58	0.225	51	1636	1
3.83	20.91	0.236	14	1640	1.5
3.82	21.05	0.241	3.21	1645	2.0
		Sample		1648	

SB-15

▽ 5.11

9.2 - 5.11 = 4.09

4.09 X .48 = 1.96

Ph	Temp	Cond	Turb	Time	gal
3.63	19.65	0.073	13	1655	.5
3.65	19.98	0.095	8.51	1659	1
3.76	19.54	0.039	3.22	1705	1.5
3.57	19.55	0.039	3.81	1711	2.
		Sample		1715	

11/21/17

SB-6

▽ 5.76

20 - 5.76 = 14.24

14.24 X .48 = 6.83

Ph	Temp	Cond	Turb	Time	gal
2.51	21.97	2.117	24	0715	.5
2.52	22.03	2.121	11	0720	1
2.51	22.06	2.114	8.55	0728	1.5
2.41	22.13	2.110	4.31	0735	2
2.54	21.75	1.832	2.95	0743	3 DCY
2.51	22.03	2.003	3.01	0800	4 DCY
2.52	21.98	2.001	3.58		5
					6
					7
		Sample		0815	

SB-13

▽ 4.41

13 - 4.41 = 8.59

8.59 X .48 = 4.12

Ph	Temp	Cond	Turb	Time	gal
5.72	22.38	0.387	32	0840	.5
5.73	22.35	0.393	28	0845	1
5.76	22.07	0.377	19	0852	2
5.78	22.17	0.365	15.5	0902	3
5.80	22.12	0.360	7.41	0913	4
		Sample		0916	

11/21/17

SB-1A

▽ 8.22

53.1 - 8.22 = 44.88

44.88 x .218 = 21.54

Ph	Temp	Cond	Turb	Time	gal
3.94	20.75	2.479	14.5	0935	1
3.93	20.87	1.751	12.01	0948	2
3.92	21.00	1.661	13.51	1002	4
3.90	20.81	1.683	8.55	1014	6
3.89	20.69	1.711	8.01	1029	8
3.86	20.73	1.76	4.51	1042	10
3.85	20.60	1.84	4.02	1104	12
3.79	20.36	1.891	4.65	1117	14
3.74	20.38	1.931	3.98	1125	16
3.75	20.42	1.910	4.17	1139	18
3.79	20.49	1904	3.95	1152	20
3.82	20.51	1911	4.05	1202	22
			Sample	1205	

11/21/17

SB-1R

▽ 8.65

33.2 - 8.65 = 24.55

24.55 x .48 = 11.78

Ph	Temp	Cond	Turb	Time	gal
4.28	22.22	0.275	19.01	1214	1
4.33	22.60	0.268	16.10	1225	2
4.32	22.68	0.289	14.10	1234	3
4.27	22.73	0.308	10.32	1245	4
4.24	22.76	0.323	7.95	1252	5
4.28	22.78	0.314	5.71	1305	6
4.47	22.71	0.350	5.44	1313	7
4.58	22.73	0.351	5.10	1324	8
4.66	22.79	0.357	3.95	1336	9
4.65	22.85	0.365	4.29	1348	10
4.65	22.83	0.357	3.51	1355	11
			Sample	1400	

Survey

SB-4	4.19	-3.66	193.87
SB-5	0.43	Ref	197.53

Water Level ▽

SB-3	11.01
SB-10	10.38
SB-11	16.32
SB-16	10.05
SB-7	14.13

Photo #1:	SW-3: Magnolia Street

Photo #2:	SW-3: Magnolia Street

Photo #3:	SW-4: Lankford Drive

Photo #4:	SW-4: Lankford Drive

Photo #5:	SW-5: Baytree Road

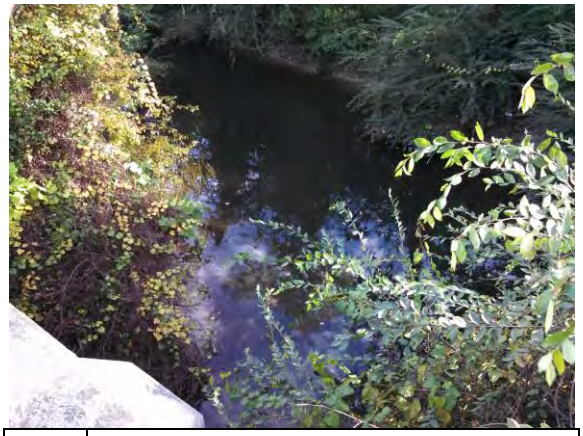

Photo #6:	SW-5: Baytree Road

Appendix B

AES

ANALYTICAL ENVIRONMENTAL SERVICES, INC.

December 01, 2017

M. Rollins
H.M. Rollins Co.

608 34th St
Gulfport MS 39501

RE: HOOD Packaging Corporation

Dear M. Rollins: Order No: 1711M46

Analytical Environmental Services, Inc. received 19 samples on 11/22/2017 10:07:00 AM for the analyses presented in following report.

No problems were encountered during the analyses. Additionally, all results for the associated Quality Control samples were within EPA and/or AES established limits. Any discrepancies associated with the analyses contained herein will be noted and submitted in the form of a project Case Narrative.
AES's accreditations are as follows:
-NELAP/State of Florida Laboratory ID E87582 for analysis of Non-Potable Water, Solid & Chemical Materials, Air & Emissions Volatile Organics, and Drinking Water Microbiology & Metals, effective 07/01/17-06/30/18.
State of Georgia, Department of Natural Resources ID #800 for analysis of Drinking Water Metals, effective 07/01/17-06/30/18 and Total Coliforms/ E. coli, effective 04/25/17-04/24/20.
-NELAP/Louisiana Agency Interest No. 100818 for or analysis of Non-Potable Water and Solid & Chemical Materials, effective 07/01/17-06/30/18.
-AIHA-LAP, LLC Laboratory ID: 100671 for Industrial Hygiene samples (Organics, Metals, PCM Asbestos, Gravimetric), Environmental Lead (Paint, Soil, Dust Wipes, Air), and Environmental Microbiology (Fungal) Direct Examination, effective until 11/01/19.
These results relate only to the items tested. This report may only be reproduced in full.

If you have any questions regarding these test results, please feel free to call.

Sincerely,

Tyrel Heckendorf

Project Manager

ANALYTICAL ENVIRONMENTAL SERVICES, INC.
3080 Presidential Drive Atlanta, GA 30340-3704
Phone: (770) 457-8177 / Toll-Free: (800) 972-4889 / Fax: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1711146

Date: 11.21.17 Page 1 of 2

COMPANY: H.M. Rollins

ADDRESS: 608 34th Street Gulfport, Ms. 39501

PHONE: (478) 804-2355

EMAIL:

SAMPLED BY: Joe McVay

SIGNATURE:

#	SAMPLE ID	SAMPLED: DATE	SAMPLED: TIME	GRAB	COMPOSITE	MATRIX (see codes)	PRESERVATION (see codes)	ANALYSIS REQUESTED: Arsenic	Barium	Lead	Zinc	REMARKS	Number of Containers
1	SB-1A	11/21/17	1205	X		GW	HNO3	X	X	X	X		
2	SB-1R	11/21/17	1400	X		GW	HNO3	X	X	X	X		
3	SB-2	11/20/17	1404	X		GW	HNO3	X	X	X	X		
4	SB-2AR	11/20/17	1318	X		GW	HNO3	X	X	X	X		
5	SB-4R	11/20/17	1139	X		GW	HNO3	X	X	X	X		
6	SB-5	11/20/17	1015	X		GW	HNO3	X	X	X	X		
7	SB-6	11/21/17	0815	X		GW	HNO3	X	X	X	X		
8	SB-8	11/20/17	1445	X		GW	HNO3	X	X	X	X		
9	SB-9	11/20/17	1541	X		GW	HNO3	X	X	X	X		
10	SB-9A	11/20/17	1619	X		GW	HNO3	X	X	X	X		
11	SB-12R	11/20/17	0905	X		GW	HNO3	X	X	X	X		
12	SB-13	11/21/17	0916	X		GW	HNO3	X	X	X	X		
13	SB-14	11/20/17	1648	X		GW	HNO3	X	X	X	X		
14	SB-15	11/20/17	1715	X		GW	HNO3	X	X	X	X		

Visit our website www.aesatlanta.com for downloadable COCs and to log in to your AESAccess account.

RELINQUISHED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
1.	11/22/17 1007	1.	11/22/17 1007
2.		2.	
3.		3.	

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD

OUT: / / VIA:

IN: / / VIA:

(client) FedEx UPS US mail courier Greyhound

other: _____

PROJECT INFORMATION

PROJECT NAME: Hood Packaging Corporation

PROJECT #:

SITE ADDRESS: River Street Valdosta, GA.

SEND REPORT TO: mrollins@hmrollins.com

INVOICE TO: P.O. Box 3471 Gulfport, MS 39505

(IF DIFFERENT FROM ABOVE)

QUOTE #:_____ PO#:_____

RECEIPT

Total # of Containers

Turnaround Time (TAT) Request

- [X] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same-Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____

E-mail? [ ] Fax? [ ]

DATA PACKAGE: I ○ II ○ III ○ IV ○

Submission of samples to the laboratory constitutes acceptance of AES's Terms & Conditions. Samples received after 3PM or on Saturday are considered as received the following business day. If no TAT is marked on COC, AES will proceed with standard TAT. Samples are disposed of 30 days after completion of report unless other arangements are made.

Matrix Codes: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water WW = Waste Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify)

Preservative Codes: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

ANALYTICAL ENVIRONMENTAL SERVICES, INC
3080 Presidential Drive, Atlanta GA 30340-3704
AES TEL.: (770) 457-8177 / TOLL-FREE (800) 972-4889 / FAX: (770) 457-8188

CHAIN OF CUSTODY

Work Order: 1711M46

Date: 11/21/17 Page 2 of 2

COMPANY: HM. Rollins Co.
ADDRESS: 608 34th Street Gulfport, Ms. 39501
PHONE: (478) 804-2355
FAX:
SAMPLED BY: Joe McVay
SIGNATURE:

#	SAMPLE ID	SAMPLED DATE	SAMPLED TIME	Grab	Composite	Matrix (See codes)	PRESERVATION (See codes)	Arsenic	Barium	Lead	Zinc	REMARKS	No # of Containers
1	Park Road ditch SW1	11/21/17	1420	X		GW	HNO3	X	X	X	X		
2	River Street Ditch SW2	11/21/17	1430	X		GW	HNO3	X	X	X	X		
3	Magnolia St. SW3	11/21/17	1445	X		GW	HNO3	X	X	X	X		
4	Lankford Dr SW4	11/21/17	1510	X		GW	HNO3	X	X	X	X		
5	Baytree Rd SW5	11/21/17	1530	X		GW	HNO3	X	X	X	X		
6													
7													
8													
9													
10													
11													
12													
13													
14													

Visit our website www.aesatlanta.com to check on the status of your results, place bottle orders, etc.

RELINQUISHED BY DATE/TIME
1: 11-22-17 1007
2:
3:

RECEIVED BY DATE/TIME
1: 11/22/17 1007
2:
3:

SPECIAL INSTRUCTIONS/COMMENTS:

SHIPMENT METHOD
OUT / / VIA:
IN / / VIA:
CLIENT FedEx UPS MAIL COURIER
GREYHOUND OTHER_____

PROJECT INFORMATION
PROJECT NAME: Hood Packaging Corporation
PROJECT #:
SITE ADDRESS: River Street Valdosta, GA
SEND REPORT TO: Mrollins@hmrollins.com
INVOICE TO: (IF DIFFERENT FROM ABOVE)
P.O. Box 3471
Gulfport Ms 39505
QUOTE #:_____ PO#:_____

RECEIPT
Total # of Containers

Turnaround Time Request
- [x] Standard 5 Business Days
- [ ] 2 Business Day Rush
- [ ] Next Business Day Rush
- [ ] Same Day Rush (auth req.)
- [ ] Other _____

STATE PROGRAM (if any): _____
E-mail? Y / N; Fax? Y / N
DATA PACKAGE: I II III IV

SAMPLES RECEIVED AFTER 3PM OR ON SATURDAY ARE CONSIDERED RECEIVED THE NEXT BUSINESS DAY. IF TURNAROUND TIME IS NOT INDICATED, AES WILL PROCEED WITH STANDARD TAT OF SAMPLES.
SAMPLES ARE DISPOSED 30 DAYS AFTER REPORT COMPLETION UNLESS OTHER ARRANGEMENTS ARE MADE.

MATRIX CODES: A = Air GW = Groundwater SE = Sediment SO = Soil SW = Surface Water W = Water (Blanks) DW = Drinking Water (Blanks) O = Other (specify) WW = Waste Water
PRESERVATIVE CODES: H+I = Hydrochloric acid + ice I = Ice only N = Nitric acid S+I = Sulfuric acid + ice S/M+I = Sodium Bisulfate/Methanol + ice O = Other (specify) NA = None

White Copy - Original; Yellow Copy - Client

Analytical Environmental Services, Inc

Date: 1-Dec-17

Client: H.M. Rollins Co.
Project: HOOD Packaging Corporation
Lab ID: 1711M46

Case Narrative

Analysis by Method E200.8:

Matrix spike recoveries for [Zinc] on sample SB-1A were outside control limits biased low. LCS recovery was within control limits indicating possible matrix interference.

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-1A
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 12:05:00 PM
Lab ID:	1711M46-001	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 18:39	TA
Barium	10.9	10.0		ug/L	252059	5	11/29/2017 18:39	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 18:39	TA
Zinc	1090	10.0		ug/L	252059	5	11/29/2017 18:39	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-1R
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 2:00:00 PM
Lab ID:	1711M46-002	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 18:49	TA
Barium	35.2	10.0		ug/L	252059	5	11/29/2017 18:49	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 18:49	TA
Zinc	14.8	10.0		ug/L	252059	5	11/29/2017 18:49	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-2
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 2:04:00 PM
Lab ID:	1711M46-003	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	9.10	5.00		ug/L	252059	5	11/29/2017 18:51	TA
Barium	19.0	10.0		ug/L	252059	5	11/29/2017 18:51	TA
Lead	2.72	1.00		ug/L	252059	5	11/29/2017 18:51	TA
Zinc	578	10.0		ug/L	252059	5	11/29/2017 18:51	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-2AR
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 1:18:00 PM
Lab ID:	1711M46-004	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	20	11/30/2017 18:23	TA
Barium	12.6	10.0		ug/L	252059	10	11/29/2017 18:53	TA
Lead	BRL	1.00		ug/L	252059	10	11/29/2017 18:53	TA
Zinc	14700	100		ug/L	252059	20	11/30/2017 18:23	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-4R
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 11:39:00 AM
Lab ID:	1711M46-005	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 18:57	TA
Barium	BRL	10.0		ug/L	252059	5	11/29/2017 18:57	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 18:57	TA
Zinc	1770	10.0		ug/L	252059	5	11/29/2017 18:57	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-5
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 10:15:00 AM
Lab ID:	1711M46-006	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	56.3	5.00		ug/L	252059	5	11/29/2017 19:04	TA
Barium	BRL	10.0		ug/L	252059	5	11/29/2017 19:04	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:04	TA
Zinc	1810	10.0		ug/L	252059	5	11/29/2017 19:04	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-6
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 8:15:00 AM
Lab ID:	1711M46-007	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	131	5.00		ug/L	252059	5	11/29/2017 19:06	TA
Barium	14.4	10.0		ug/L	252059	5	11/29/2017 19:06	TA
Lead	2670	1.00		ug/L	252059	5	11/29/2017 19:06	TA
Zinc	2610	10.0		ug/L	252059	5	11/29/2017 19:06	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-8
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 2:45:00 PM
Lab ID:	1711M46-008	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:08	TA
Barium	32.9	10.0		ug/L	252059	5	11/29/2017 19:08	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:08	TA
Zinc	3120	10.0		ug/L	252059	5	11/29/2017 19:08	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-9
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 3:41:00 PM
Lab ID:	1711M46-009	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:10	TA
Barium	17.5	10.0		ug/L	252059	5	11/29/2017 19:10	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:10	TA
Zinc	2980	10.0		ug/L	252059	5	11/29/2017 19:10	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-9A
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 4:19:00 PM
Lab ID:	1711M46-010	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:12	TA
Barium	10.5	10.0		ug/L	252059	5	11/29/2017 19:12	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:12	TA
Zinc	5970	10.0		ug/L	252059	5	11/29/2017 19:12	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-12R
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 9:05:00 AM
Lab ID:	1711M46-011	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 18:45	TA
Barium	BRL	10.0		ug/L	252059	5	11/29/2017 18:45	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 18:45	TA
Zinc	45.9	10.0		ug/L	252059	5	11/29/2017 18:45	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-13
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 9:16:00 AM
Lab ID:	1711M46-012	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	57.3	25.0		ug/L	252059	5	11/30/2017 18:24	TA
Barium	221	50.0		ug/L	252059	5	11/30/2017 18:24	TA
Lead	16.0	5.00		ug/L	252059	5	11/30/2017 18:24	TA
Zinc	188	50.0		ug/L	252059	5	11/30/2017 18:24	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-14
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 4:48:00 PM
Lab ID:	1711M46-013	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	29.0	5.00		ug/L	252059	5	11/29/2017 19:16	TA
Barium	71.4	10.0		ug/L	252059	5	11/29/2017 19:16	TA
Lead	173	1.00		ug/L	252059	5	11/29/2017 19:16	TA
Zinc	388	10.0		ug/L	252059	5	11/29/2017 19:16	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	SB-15
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/20/2017 5:15:00 PM
Lab ID:	1711M46-014	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:18	TA
Barium	31.2	10.0		ug/L	252059	5	11/29/2017 19:18	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:18	TA
Zinc	BRL	10.0		ug/L	252059	5	11/29/2017 19:18	TA

Qualifiers:

- * Value exceeds maximum contaminant level
- BRL Below reporting limit
- H Holding times for preparation or analysis exceeded
- N Analyte not NELAC certified
- B Analyte detected in the associated method blank
- > Greater than Result value
- E Estimated (value above quantitation range)
- S Spike Recovery outside limits due to matrix
- Narr See case narrative
- NC Not confirmed
- < Less than Result value
- J Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	PARK ROAD DITCH SW1
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 2:20:00 PM
Lab ID:	1711M46-015	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:20	TA
Barium	31.2	10.0		ug/L	252059	5	11/29/2017 19:20	TA
Lead	4.51	1.00		ug/L	252059	5	11/29/2017 19:20	TA
Zinc	89.0	10.0		ug/L	252059	5	11/29/2017 19:20	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	RIVER STREET DITCH SW2
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 2:30:00 PM
Lab ID:	1711M46-016	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:22	TA
Barium	27.5	10.0		ug/L	252059	5	11/29/2017 19:22	TA
Lead	3.05	1.00		ug/L	252059	5	11/29/2017 19:22	TA
Zinc	36.5	10.0		ug/L	252059	5	11/29/2017 19:22	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	MAGNOLIA ST. SW3
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 2:45:00 PM
Lab ID:	1711M46-017	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:29	TA
Barium	21.6	10.0		ug/L	252059	5	11/29/2017 19:29	TA
Lead	BRL	1.00		ug/L	252059	5	11/29/2017 19:29	TA
Zinc	13.2	10.0		ug/L	252059	5	11/29/2017 19:29	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	LANKFORD DR SW4
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 3:10:00 PM
Lab ID:	1711M46-018	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/30/2017 18:26	TA
Barium	43.1	10.0		ug/L	252059	5	11/30/2017 18:26	TA
Lead	1.10	1.00		ug/L	252059	5	11/30/2017 18:26	TA
Zinc	29.0	25.0		ug/L	252059	5	11/30/2017 18:26	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

Analytical Environmental Services, Inc **Date:** 1-Dec-17

Client:	H.M. Rollins Co.	**Client Sample ID:**	BAYTREE RD SW5
Project Name:	HOOD Packaging Corporation	**Collection Date:**	11/21/2017 3:30:00 PM
Lab ID:	1711M46-019	**Matrix:**	Groundwater

Analyses	Result	Reporting Limit	Qual	Units	BatchID	Dilution Factor	Date Analyzed	Analyst
Trace Elements by ICP/MS E200.8				**(E200.2)**				
Arsenic	BRL	5.00		ug/L	252059	5	11/29/2017 19:33	TA
Barium	27.5	10.0		ug/L	252059	5	11/29/2017 19:33	TA
Lead	2.00	1.00		ug/L	252059	5	11/29/2017 19:33	TA
Zinc	20.7	10.0		ug/L	252059	5	11/29/2017 19:33	TA

Qualifiers:

*	Value exceeds maximum contaminant level	E	Estimated (value above quantitation range)
BRL	Below reporting limit	S	Spike Recovery outside limits due to matrix
H	Holding times for preparation or analysis exceeded	Narr	See case narrative
N	Analyte not NELAC certified	NC	Not confirmed
B	Analyte detected in the associated method blank	<	Less than Result value
>	Greater than Result value	J	Estimated value detected below Reporting Limit

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ANALYTICAL ENVIRONMENTAL SERVICES, INC.

SAMPLE/COOLER RECEIPT CHECKLIST

1. Client Name: **H.M. Rollins Co.** AES Work Order Number: **1711M46**

2. Carrier: FedEx ☐ UPS ☐ USPS ☐ Client ■ Courier ☐ Other _____

		Yes	No	N/A	Details	Comments
3.	Shipping container/cooler received in good condition?	●	○	○	damaged ☐ leaking ☐ other ☐	
4.	Custody seals present on shipping container?	○	●	○		
5.	Custody seals intact on shipping container?	○	○	●		
6.	Temperature blanks present?	●	○	○		
7.	Cooler temperature(s) within limits of 0-6°C? [See item 13 and 14 for temperature recordings.]	●	○	○	Cooling initiated for recently collected samples / ice present ☐	
8.	Chain of Custody (COC) present?	●	○	○		
9.	Chain of Custody signed, dated, and timed when relinquished and received?	●	○	○		
10.	Sampler name and/or signature on COC?	●	○	○		
11.	Were all samples received within holding time?	●	○	○		
12.	TAT marked on the COC?	●	○	○	If no TAT indicated, proceeded with standard TAT per Terms & Conditions. ☐	

13. Cooler 1 Temperature 5.4 °C Cooler 2 Temperature _____ °C Cooler 3 Temperature _____ °C Cooler 4 Temperature _____ °C

14. Cooler 5 Temperature _____ °C Cooler 6 Temperature _____ °C Cooler 7 Temperature _____ °C Cooler 8 Temperature _____ °C

15. Comments: _____

I certify that I have completed sections 1-15 (dated initials). MJ 11/22/17

		Yes	No	N/A	Details	Comments
16.	Were sample containers intact upon receipt?	●	○	○		
17.	Custody seals present on sample containers?	○	●	○		
18.	Custody seals intact on sample containers?	○	○	●		
19.	Do sample container labels match the COC?	●	○	○	incomplete info ☐ illegible ☐ no label ☐ other ☐	
20.	Are analyses requested indicated on the COC?	●	○	○		
21.	Were all of the samples listed on the COC received?	●	○	○	samples received but not listed on COC ☐ samples listed on COC not received ☐	
22.	Was the sample collection date/time noted?	●	○	○		
23.	Did we receive sufficient sample volume for indicated analyses?	●	○	○		
24.	Were samples received in appropriate containers?	●	○	○		
25.	Were VOA samples received without headspace (< 1/4" bubble)?	○	○	●		
26.	Were trip blanks submitted?	○	○	●	listed on COC ☐ not listed on COC ☐	

27. Comments: _____

I certify that I have completed sections 16-27 (dated initials). TH 11/22/17

This section only applies to samples where pH can be checked at Sample Receipt.

		Yes	No	N/A	Details	Comments
28.	Have containers needing chemical preservation been checked? *	●	○	○		
29.	Containers meet preservation guidelines?	●	○	○		
30.	Was pH adjusted at Sample Receipt?	○	○	●		

* Note: Certain analyses require chemical preservation but must be checked in the laboratory and not upon Sample Receipt such as Coliforms, VOCs and Oil & Grease/TPH.

I certify that I have completed sections 28-30 (dated initials). TH 11/22/17

Locked

Client: H.M. Rollins Co.
Project Name: HOOD Packaging Corporation
Workorder: 1711M46

ANALYTICAL QC SUMMARY REPORT

BatchID: 252059

Sample ID: **MB-252059** Client ID: Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **MBLK** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888832**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	BRL	5.00									
Barium	BRL	10.0									
Lead	BRL	1.00									
Zinc	BRL	10.0									

Sample ID: **LCS-252059** Client ID: Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **LCS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888833**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	101.9	5.00	100.0	0.4723	101	85	115				
Barium	102.0	10.0	100.0		102	85	115				
Lead	97.53	1.00	100.0		97.5	85	115				
Zinc	103.5	10.0	100.0		104	85	115				

Sample ID: **1711M46-001AMS** Client ID: **SB-1A** Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **MS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888837**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	94.34	25.0	100.0		94.3	70	130				
Barium	113.8	50.0	100.0	10.86	103	70	130				
Lead	91.22	5.00	100.0		91.2	70	130				
Zinc	1127	50.0	100.0	1092	35.0	70	130				S

Sample ID: **1711M46-011AMS** Client ID: **SB-12R** Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **MS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	96.55	25.0	100.0	1.215	95.3	70	130				

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		

Client: H.M. Rollins Co.
Project Name: HOOD Packaging Corporation
Workorder: 1711M46

ANALYTICAL QC SUMMARY REPORT

BatchID: 252059

Sample ID: **1711M46-011AMS** Client ID: **SB-12R** Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **MS** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888840**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Barium	114.4	50.0	100.0	8.680	106	70	130				
Lead	99.34	5.00	100.0		99.3	70	130				
Zinc	144.1	50.0	100.0	45.90	98.2	70	130				

Sample ID: **1711M46-001AMSD** Client ID: **SB-1A** Units: **ug/L** Prep Date: **11/27/2017** Run No: **357886**
SampleType: **MSD** TestCode: **Trace Elements by ICP/MS E200.8** BatchID: **252059** Analysis Date: **11/29/2017** Seq No: **7888838**

Analyte	Result	RPT Limit	SPK value	SPK Ref Val	%REC	Low Limit	High Limit	RPD Ref Val	%RPD	RPD Limit	Qual
Arsenic	98.26	25.0	100.0		98.3	70	130	94.34	4.06	20	
Barium	117.0	50.0	100.0	10.86	106	70	130	113.8	2.85	20	
Lead	93.67	5.00	100.0		93.7	70	130	91.22	2.66	20	
Zinc	1165	50.0	100.0	1092	73.0	70	130	1127	3.31	20	

Qualifiers:

>	Greater than Result value	<	Less than Result value	B	Analyte detected in the associated method blank
BRL	Below reporting limit	E	Estimated (value above quantitation range)	H	Holding times for preparation or analysis exceeded
J	Estimated value detected below Reporting Limit	N	Analyte not NELAC certified	R	RPD outside limits due to matrix
Rpt Lim	Reporting Limit	S	Spike Recovery outside limits due to matrix		