

Hazardous Waste Section
File Room Document Transmittal Sheet

Your Name: Phillip Orozco
EPA ID: N C D 9 8 6 1 8 2 5 5 8
Facility Name: Certainteed Corporation
Document Group: General (G)
Document Type: Compliance Assistance Visit (CAV)
Description: CAV – On 8/13/12, a large amount of Chromium contaminated wastewater was transported to Dart Acquisitions LLC. The wastewater was listed as a D007 hazardous waste on manifest #8314601JJK. Analytical results showed 5.14 ppm total chromium.
Date of Doc: 12/20/2012
Author of Doc: Phillip Orozco

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NCD986182558

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Hazardous Waste Compliance Data Entry Form

EPA ID Number: NCD986182558

Facility Name: Certainteed Corporation

Address: 200 Certainteed Rd.,
Oxford, NC 27565

County: Granville

Contact Name: Robert Yurek

Phone #: 919-693-1141

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EVALUATION DATA: **New: XX** Change: _____ Delete: _____

Date: **12/20/12**

Evaluation Type: **CAV**

Date: ___/___/_____

Evaluation Type: _____

Inspector ID #: **018**

Evaluation Comments:

CAV – On 8/13/12, a large amount of Chromium contaminated wastewater was transported to Dart Acquisitions LLC. The wastewater was listed as a D007 hazardous waste on manifest #8314601JJK. Analytical results showed 5.14 ppm total chromium.

**STATE OF NORTH CAROLINA
DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES
DIVISION OF WASTE MANAGEMENT
HAZARDOUS WASTE SECTION (SECTION)**

COMPLIANCE ASSISTANCE VISIT (CAV) REPORT

1. FACILITY INFORMATION:

Name: Certainteed Corporation
EPA ID Number: **NCD986182558**
Type of Facility: Conditionally Exempt Small Quantity Generator (CESQG)
Facility Location: 200 Certainteed Rd., Oxford, NC 27565
Phone Number: 919-693-1141

2. FACILITY CONTACT: Robert Yurek

3. PARTICIPANTS: Robert Yurek and Phil Orozco, 919-212-2501

4. DATE OF VISIT: December 12, 2012

5. PURPOSE OF VISIT: An unannounced visit to investigate the circumstances that led to generating 4,957 gallons of Chromium contaminated (D007) wastewater that was transported to Dart Acquisitions LLC (NCD121700777) on 8/13/12. Also, to assist in determining compliance with the regulations described at 40 CFR 261, 262, 265, 268, 273, 279; and Title 15A of the North Carolina Administrative Code (NCAC), Chapter 13 - the North Carolina Hazardous Waste Management Rules (Rules).

6. FACILITY DESCRIPTION:

Certainteed Corporation in Oxford is a manufacturer of roofing shingles. The company is a manufacturer of a very wide range of building products. CertainTeed maintains 45 manufacturing facilities in North America (the U.S. and Canada) and sells its products in building supply stores nationwide. In 1988 the company became a wholly owned subsidiary of Compagnie de Saint-Gobain, the world's largest manufacturer of building materials.

General Information:

- Legal owner of business: Saint-Gobain
- Legal owner of property: Certainteed Corporation
- Number of employees: ~ 285 employees
- Water supply (municipal or well): Municipal
- Municipal sewer/septic/on-site treatment facility: Municipal
- Number of on-site wells : None apparent
- Distance to closest off-site well (within 1-mile or unknown) : unknown
- Closest private residence : ~ ¾ mile

7. CURRENT HAZARDOUS WASTE STREAMS INCLUDE:

D001/F003 used solvents generated in small amounts in the QA Lab.
D001 generated from used /spent aerosol cans coming from maintenance activities.
Universal Waste – Lamps; and Used Oil

8. REPORT:

On 8/13/12, 4,957 gallons of Chromium contaminated wastewater was transported to Dart Acquisitions LLC (Dart) – EPA ID# NCD121700777. The wastewater was listed as a D007 hazardous waste on manifest #8314601JJK. On 10/26/12, this information was discovered during a routine audit of Dart's manifests by one of the Section's inspectors.

During the CAV, Mr. Yurek explained that the wastewater had been generated from the cleaning of an air stack. Heat and fumes (exhaust) from the manufacturing line is passed through an air pollution control system. The air stack had six years of build-up in it. The chromium may have been generated from the exhaust passes through ceramic beads (reducing fumes/VOCs) before reaching the air stack.



Exhaust system through which the heat & fumes generated from the shingle manufacturing line pass.

Upon request, a copy of the analytical results for the wastewater was received by the Section. The information was sent by Mr. Yurek. The results indicated 5,140 ug/L for total Chromium. The regulatory limit for Chromium is 5000 ug/L for Hexavalent Chromium. The analytical lab did not test separately for Hexavalent Chromium. Therefore there is the possibility that the material may not have met the true regulatory standard for the heavy metal in question since the RCRA standard for Chromium is based on Hexavalent Chromium.

Typical waste streams at the facility are limited to generation of small amounts of solvent from the QA lab, material generated from aerosol cans being punctured, used lamps and used oil. At the time of my visit and in the foreseeable future the facility will be operating as a CESQG.

ACTION ITEMS:

1. Universal Waste – Lamps (Used Lamps) must be stored in closed containers/boxes and properly labeled. On the day of inspection, lamps were not in containers, lamps were in open boxes and lamps were not properly labeled. A start date, the date the 1st used lamp goes into the container, should also be shown on each container. The purpose of the start date is one acceptable way to show that the lamps have not exceeded the 365 day storage time limit.



2. Containers storing used oil that is to be sent for recycling must have the words “Used Oil” on the container.
3. The aerosol can puncture device is likely needed to be replaced. All waste must be in the container.



Aerosol puncture device with waste on it and on the outside of the container and on the concrete floor.

4. In the future, if Certaineed Corp. goes through the same process of cleaning out the exhaust system that generated the contaminated wastewater, the Section recommends that the hazardous waste determination include an appropriate analytical test for Hexavalent Chromium.


Phillip G. Orozco
Senior Environmental Specialist, NCDENR

Date: January 11, 2013

ANALYTICAL RESULTS

Project: CERTAINTED FRAC TANK

Pace Project No.: 92126718

Sample: CERTAINTED FRAC TANK Lab ID: 92126718001 Collected: 08/03/12 19:00 Received: 08/04/12 09:00 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP									
Analytical Method: EPA 6010 Preparation Method: EPA 3010									
Arsenic	163	ug/L	5.0	2.7	1	08/07/12 12:45	08/08/12 00:30	7440-38-2	
Barium	40.0	ug/L	5.0	2.5	1	08/07/12 12:45	08/08/12 00:30	7440-39-3	
Cadmium	6.0	ug/L	1.0	0.50	1	08/07/12 12:45	08/08/12 00:30	7440-43-9	
Chromium	5140	ug/L	5.0	2.0	1	08/07/12 12:45	08/08/12 00:30	7440-47-3	M1
Lead	21.9	ug/L	5.0	4.0	1	08/07/12 12:45	08/08/12 00:30	7439-92-1	
Selenium	8.0J	ug/L	10.0	5.0	1	08/07/12 12:45	08/08/12 00:30	7782-49-2	
Silver	ND	ug/L	5.0	2.5	1	08/07/12 12:45	08/08/12 00:30	7440-22-4	
7470 Mercury									
Analytical Method: EPA 7470 Preparation Method: EPA 7470									
Mercury	ND	ug/L	0.20	0.10	1	08/07/12 13:15	08/08/12 10:33	7439-97-6	
8270 MSSV Semivolatile Organic									
Analytical Method: EPA 8270 Preparation Method: EPA 3510									
Acenaphthene	ND	ug/L	10.0	0.25	1	08/04/12 19:00	08/06/12 16:05	83-32-9	
Acenaphthylene	ND	ug/L	10.0	0.21	1	08/04/12 19:00	08/06/12 16:05	208-96-8	
Aniline	ND	ug/L	10.0	2.0	1	08/04/12 19:00	08/06/12 16:05	62-53-3	
Anthracene	ND	ug/L	10.0	0.14	1	08/04/12 19:00	08/06/12 16:05	120-12-7	
Benzo(a)anthracene	ND	ug/L	10.0	0.33	1	08/04/12 19:00	08/06/12 16:05	56-55-3	
Benzo(a)pyrene	ND	ug/L	10.0	0.30	1	08/04/12 19:00	08/06/12 16:05	50-32-8	
Benzo(b)fluoranthene	ND	ug/L	10.0	0.28	1	08/04/12 19:00	08/06/12 16:05	205-99-2	
Benzo(g,h,i)perylene	ND	ug/L	10.0	0.38	1	08/04/12 19:00	08/06/12 16:05	191-24-2	
Benzo(k)fluoranthene	ND	ug/L	10.0	0.43	1	08/04/12 19:00	08/06/12 16:05	207-08-9	
Benzoic Acid	ND	ug/L	50.0	11.5	1	08/04/12 19:00	08/06/12 16:05	65-85-0	
Benzyl alcohol	ND	ug/L	20.0	2.4	1	08/04/12 19:00	08/06/12 16:05	100-51-6	
4-Bromophenylphenyl ether	ND	ug/L	10.0	0.82	1	08/04/12 19:00	08/06/12 16:05	101-55-3	
Butylbenzylphthalate	ND	ug/L	10.0	0.79	1	08/04/12 19:00	08/06/12 16:05	85-68-7	
4-Chloro-3-methylphenol	ND	ug/L	20.0	3.7	1	08/04/12 19:00	08/06/12 16:05	59-50-7	
4-Chloroaniline	ND	ug/L	20.0	2.8	1	08/04/12 19:00	08/06/12 16:05	106-47-8	
bis(2-Chloroethoxy)methane	ND	ug/L	10.0	0.92	1	08/04/12 19:00	08/06/12 16:05	111-91-1	
bis(2-Chloroethyl) ether	ND	ug/L	10.0	1.0	1	08/04/12 19:00	08/06/12 16:05	111-44-4	
bis(2-Chloroisopropyl) ether	ND	ug/L	10.0	0.95	1	08/04/12 19:00	08/06/12 16:05	108-60-1	
2-Chloronaphthalene	ND	ug/L	10.0	0.98	1	08/04/12 19:00	08/06/12 16:05	91-58-7	
2-Chlorophenol	ND	ug/L	10.0	1.3	1	08/04/12 19:00	08/06/12 16:05	95-57-8	
4-Chlorophenylphenyl ether	ND	ug/L	10.0	0.87	1	08/04/12 19:00	08/06/12 16:05	7005-72-3	
Chrysene	ND	ug/L	10.0	0.21	1	08/04/12 19:00	08/06/12 16:05	218-01-9	
Dibenz(a,h)anthracene	ND	ug/L	10.0	0.55	1	08/04/12 19:00	08/06/12 16:05	53-70-3	
Dibenzofuran	ND	ug/L	10.0	0.89	1	08/04/12 19:00	08/06/12 16:05	132-64-9	
1,2-Dichlorobenzene	ND	ug/L	10.0	0.88	1	08/04/12 19:00	08/06/12 16:05	95-50-1	
1,3-Dichlorobenzene	ND	ug/L	10.0	0.81	1	08/04/12 19:00	08/06/12 16:05	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	10.0	0.95	1	08/04/12 19:00	08/06/12 16:05	106-46-7	
3,3'-Dichlorobenzidine	ND	ug/L	20.0	2.1	1	08/04/12 19:00	08/06/12 16:05	91-94-1	
2,4-Dichlorophenol	ND	ug/L	10.0	1.7	1	08/04/12 19:00	08/06/12 16:05	120-83-2	
Diethylphthalate	ND	ug/L	10.0	0.58	1	08/04/12 19:00	08/06/12 16:05	84-66-2	
2,4-Dimethylphenol	ND	ug/L	10.0	1.2	1	08/04/12 19:00	08/06/12 16:05	105-67-9	
Dimethylphthalate	ND	ug/L	10.0	0.76	1	08/04/12 19:00	08/06/12 16:05	131-11-3	
Di-n-butylphthalate	ND	ug/L	10.0	0.75	1	08/04/12 19:00	08/06/12 16:05	84-74-2	

Date: 08/10/2012 10:39 AM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: CERTAINTEE FRAC TANK
Pace Project No.: 92126718

QC Batch: MPRP/11221 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92126718001

METHOD BLANK: 809642 Matrix: Water
Associated Lab Samples: 92126718001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	ug/L	ND	5.0	08/08/12 00:13	
Barium	ug/L	ND	5.0	08/08/12 00:13	
Cadmium	ug/L	ND	1.0	08/08/12 00:13	
Chromium	ug/L	ND	5.0	08/08/12 00:13	
Lead	ug/L	ND	5.0	08/08/12 00:13	
Selenium	ug/L	ND	10.0	08/08/12 00:13	
Silver	ug/L	ND	5.0	08/08/12 00:13	

LABORATORY CONTROL SAMPLE: 809643

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	ug/L	500	480	96	80-120	
Barium	ug/L	500	484	97	80-120	
Cadmium	ug/L	500	492	98	80-120	
Chromium	ug/L	500	494	99	80-120	
Lead	ug/L	500	493	99	80-120	
Selenium	ug/L	500	487	97	80-120	
Silver	ug/L	250	247	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 809644 809645

Parameter	Units	92126718001		809644		809645		% Rec Limits	Max RPD	Qual	
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec				
Arsenic	ug/L	163	500	500	686	715	105	110	75-125	4	20
Barium	ug/L	40.0	500	500	518	539	98	100	75-125	4	20
Cadmium	ug/L	6.0	500	500	487	504	96	100	75-125	3	20
Chromium	ug/L	5140	500	500	5660	5630	104	138	75-125	3	20 M1
Lead	ug/L	21.9	500	500	472	487	90	93	75-125	3	20
Selenium	ug/L	8.0J	500	500	572	597	113	118	75-125	4	20
Silver	ug/L	ND	250	250	256	266	102	106	75-125	4	20