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SITE INSPECTION

ALUMINUM SHAPES INCORPORATED

PENNSAUKEN, CAMDEN COUNTY

EPA ID.: NJD002338267

New Jersey Department of Environmental Protection and Energy
Division of Responsible Party Site Remediation
Bureau of Site Assessment

ALUMINUM SHAPES INCORPORATED
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY, NEW JERSEY
EPA ID# NJD002338267

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NARRATIVE

ALUMINUM SHAPES INCORPORATED
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY, NEW JERSEY
EPA ID# NJD002338267

GENERAL INFORMATION AND SITE HISTORY

The Aluminum Shapes Incorporated (Aluminum Shapes) site, approximately 25 acres in size, is located on Block 250, Lot 1 in a predominantly industrialized area of Delair, Camden County. The site, which fronts to the west on River Road is, bordered on the east and north by the Pennsauken Sanitary Landfill and on the south by the Ester Williams Pools and Spas Company and the Johnny Weismuller Products Company, two subsidiaries of Aluminum Shapes that manufacture pools, spas and other aluminum products.

The site was owned from 1923 to 1933 by the River Road Sand and Gravel Company, from 1933 to 1957 by the River Road Holding Company and from 1957 to the present by Aluminum Shapes under the name River Road Corporation.

The population within a 4-mile radius of the site is approximately 310,000

SITE OPERATIONS OF CONCERN

Aluminum Shapes operates an aluminum extrusion plant and foundry whereby aluminum ingots and scraps are melted in an on-site foundry and formed to produce frames, doors, windows and other aluminum items, some of which are etched and painted. Hazardous waste is produced during the etching process and from the cleaning of paint lines and paint spray booths. The paint sludge is drummed and taken to the S&W Waste, Incorporated (S&W) transfer facility located in South Kearny, New Jersey. S&W properly identifies the waste, reduces its volume and then ships it to an approved treatment, storage and disposal (TSD) facility. The etching waste, which contains hexavalent chromium, is pumped to the on-site wastewater treatment plant. Chromium contaminated sludge produced in the wastewater treatment plant is dewatered, drummed and transported to S&W. The remaining treated water is discharged to the Pennsauken Sewerage Authority (Attachment A).

A percolation field first observed in aerial photographs in 1974 was used by Aluminum Shapes until 1980. This percolation field, which was located to the east of the main plant, was used as a surface water runoff collection area. The aerial photographs also revealed two retention basins located near the percolation field. A Pre-Sampling Assessment (PSA) conducted on September 19, 1991 by the New Jersey Departmnet of Environmental Protection and Energy (NJDEPE), formerly the New Jersey Department of Environmental Protection (NJDEP), Division of responsible Party Site Remediation (DRPSR), Bureau of Site Assessment (BSA) revealed that the portion of the property where the basins are located has been leased to the Pennsauken Sanitary Landfill since 1986; the naturally occurring basins are used to collect stormwater runoff from the landfill (Attachment H). Soil gas readings collected during the PSA indicated the presence of methane in the southernmost basin, but no other volatile organic compounds (VOCs).

Other waste units present at the site include an oil removal sump used in the contact cooling water recycling system and a drum storage area (Attachment A). An inspection conducted by the NJDEP, Division of

Waste Management (DWM), Bureau of Southern Enforcement (BSE) in 1981 revealed that drums of trivalent chromium filter cake, paint line waste and waste wash water were stored in the drum storage area (Attachment B). The inspection revealed that the drum storage area is concrete paved with a 6-inch dike around the perimeter. Every four months, when approximately 70 drums have been accumulated, they are removed by S&W Waste.

In their original Resource Conservation Recovery Act (RCRA) submittal to the United States Environmental Protection Agency (USEPA), Aluminum Shapes listed themselves as a generator of hazardous waste as well as a TSD facility. The TSD determination was made because the company planned on storing spent toluene in an 18,333 gallon underground storage tank (UGST) and because the company operated an on-site neutralization tank whereby they were treating waste from a chemical conversion coating system (Attachment C).

Aluminum Shapes petitioned the USEPA and the NJDEP, DWM, Bureau of Hazardous Waste Engineering (BHWE) to exclude the facility from TSD requirements under RCRA. In May 1983 the NJDEP, DWM, BHWE granted an exclusion for the spent toluene storage tank because the tank was never used to stored spent toluene on site. The neutralization tank was also excluded under RCRA; however, it was covered under NJDEP hazardous waste regulations and was considered an Industrial Waste Management Facility (IWMF) under the jurisdiction of the NJDEP, Division of Water Resources (DWR) (Attachment D). The NJDEP, DWR reviewed Aluminum Shapes request and in June 1983 advised them that since the effluent from the neutralization tank was not a hazardous waste and was discharged directly to the sewer the company was declassified as a TSD. However, samples obtained by the NJDEP, Division of Hazardous Waste Management (DHWM), BSE in 1989 revealed that the influent to the tank contained high levels of chromium and was considered a hazardous waste (Attachment E). Thus the company was still subject to the IWMF requirements of the New Jersey Pollution Discharge Elimination System (NJPDES) Regulations (Attachment F).

Seven UGSTs totaling 140,000 gallons were removed from the site in March and April 1989. In July 1990, Betz, Converse and Murdoch (BCM) of Burlington, New Jersey submitted a Discharge Investigation Corrective Action Report which detailed the remedial actions performed with reference to the UGST removal. The remedial actions are detailed in the groundwater and soil sections of this report.

On April 24, 1990 the company had a spill of approximately 200 gallons of non-hazardous hydraulic fluid from an extrusion press. An investigation conducted by the NJDEP, DHWM, BSE on May 2,1990 concluded that only a small amount of fluid entered the sanitary sewer and the majority of the spill was cleaned up by Aluminum Shapes.

GROUNDWATER ROUTE

The Aluminum Shapes site is located within the Inner Coastal Plain Physiographic Province, over an outcrop area of the Potomoc-Raritan-Magothy Formation. The deposits of this formation are of late Cretaceous origin and consist of fluvial and marginal marine sediments. The sediments are made up of unconsolidated white to gray to reddish-brown sands, gravels and clays. Localized beds of hematite-cemented sands also exist within the formation.

The Potomoc-Raritan-Magothy Formation forms a wedge-shaped body 150 to 210 feet thick. This formation is overlain by the Merchantville Formation, a late Cretaceous black, glauconitic clay of marine origin. Also overlying this formation in much of the outcrop area are the sands and gravels of the Pennsauken Formation. This early Pleistocene age fluvial deposit forms a thin mantle on the higher terraces located in the area.

Underlying the Potomoc-Raritan-Magothy Formation is the Wissahickon Formation, a metamorphic crystalline bedrock originating from the Precambrian to Ordovician age. The Wissahickon ranges in texture from schists to gneiss with a large degree of lateral and vertical variations.

The aquifer located within the Potomoc-Raritan-Magothy Formation is the most important source of groundwater in Camden County. The aquifer is divided into three major hydrogeologic units: an upper unit,a middle unit and a lower unit. The water producing units are composed of sand and gravel and are partially confined by less permeable clays and silts. Due to the noncontinuous nature of the confining layers, significant vertical leakage occurs between units. In areas where the Pennsauken Formation overlies the aquifer, a hydraulical connection is formed resulting in a water table aquifer. Originally, the natural groundwater flow was westerly towards the Delaware River; however, heavy pumpage by municipal water systems utilizing the Potomoc-Raritan-Magothy Formation has reversed the groundwater flow toward the pumping centers and the Delaware River is now a recharge boundary.

BCM installed four monitoring wells (MW-1, MW-2, MW-3 and MW-4) at the site in December 1986 ; two monitoring wells (MW-5 and MW-6) at the site in December 1987 and two monitoring wells (MW-7 and MW-8) at the site in August 1989. MW-1, a background well, is located to the northwest of the former percolation field and is 56.5 feet deep; MW-2, MW-3 and MW-5 are located to the south of the former percolation field and are 57, 67 and 60 feet deep, respectively; MW-4 is located adjacent to the on-site foundry and is 60.8 feet deep; MW-6, a background well, is located in the northwestern section of the site adjacent to River Road and is 54 feet deep; MW-7 is located adjacent to the main plant on the southwestern side and is 50.5 feet deep and MW-8 is located at the southwestern corner of the property and is 50 feet deep. MW-7 and MW-8 were installed in the UGST removal area.

Sampling of these wells was conducted in 1986, 1987, 1988, 1989 and 1990 by BCM for volatile organic compounds (VOCs), base/neutral (B/N) compounds, metals, PHCs and PCBs. Also, the NJDEP, DHWM, BSE collected samples from MW-1, MW-3, MW-4 and MW-6 in 1988, which were analyzed for VOCs and metals. Sampling results revealed VOC contamination with benzene, chlorobenzene, chloroethane, chloroform, 1,1-dichloroethane, 1,2-dichloroethene, ethylbenzene, methylene chloride, toluene, 1,1,1-trichloroethane, 1,1,2,2-tetrachloroethene, trans-1,2-dichloroethene, vinyl chloride and trichloroethene. Bis(2-ethylhexyl)phthalate was detected in MW-1 in September 1988 at ppb and in March 1989 at 269.0 ppb. It was also detected in MW-2 at 257.0 ppb in March 1989 and at 374.0 ppb in MW-7 in November 1989. Total chromium was detected in MW-4 at 184.0 ppb in June 1988, 193.0 ppb in March 1989, 161.0 ppb in September 1988, 229.0 ppb in June 1989, 709.0 ppb in September 1989 and 206.0 ppb in September 1990. PHCs were detected in MW-6 in September 1990 at 2080.0 ppb (Attachment I).

OWNER	DEPTH (FEET)	FORMATION *	DISTANCE (MILES)
New Jersey-American Water	167	GKMR	4.0
New Jersey-American Water	427	GKMR	4.0

* = Raritan and Magothy Formation

The Camden area has a history of groundwater contamination. The Camden City Municipal Wells, all screened in the lower Potomoc-Raritan-Magothy Aquifer are situated in four wellfields: Morris, Delair, Puchack and Parkside. The Morris and Delair Wellfields have a history of high levels of iron and maganese and low levels of VOCs. The Puchack Wellfield is contaminated with a variety of compounds including chromium, mercury and VOCs with chromium being the biggest problem. The NJDEPE, Office of Enforcement Policy (OEP), Southern Region Enforcement (SRE) is currently identifying responsible parties and conducting sampling of the Camden City Morris and Delair Wellfields. The NJDEPE, Bureau of Safe Drinking Water is also sampling the Morris and Delair Wellfields and oversees all of Camden's potable wells for any contamination problems in the finished drinking water. Currently, Camden City has 16 wells in operation. Merchantville-Pennsauken National Highway Wells #1 and #2 located 0.7 and 1.1 miles from the site exhibited VOC contamination in 1987; however, with the installation of an air stripper the VOC levels have been reduced below NJDEPE action levels.

The population served by the public water supplies located within a 4-mile radius of the site is approximately 160,000.

There are numerous industrial wells located within a 4-mile radius of the site; however, only three industrial wells are located within a 1-mile radius of the site.

Only two private wells have been identified within a 4-mile radius of the site; belonging to H.W. Layer and B. Christian, respectively. Both are located in Pennsauken Township. The H.W. Layer well is 137 feet deep and is located 0.92 mile from the site. The B. Christian well is 136 feet deep and is located 1.0 mile from the site.

SURFACE WATER ROUTE

The Pennsuaken Creek and the Delaware River are located approximately 2,000 feet and 3,500 feet downslope of the site, respectively . The Pennsauken Creek is comprised of a mainstem and a north and south branch. The mainstem which is located downslope of the site is not utilized as a potable or recreational water source due to heavy contamination from the surrounding urbanized area; however, the Pennsauken creek does flow to the Delaware River which is a potable and recreational water source. No potable surface water intakes are located within 15 miles downstream of the site; however, the Delaware River is tidal in this area and the following potable surface water intakes are located within 15 miles upstream of the site: the City of Philadelphia, located 4.9 stream miles from the site, serving a population of 792,000; the City of Burlington, located 12.9 stream miles from the site, serving a population of 10,000; and the City of Bristol, located 13.2 stream miles from the site, serving a population of 40,000.

In 1986 the NJDEP, DWR, Bureau of Industrial Discharge Permits (BIDP) issued Aluminum Shapes NJPDES permit #NJ0034567 for a discharge of industrial wastewater into the Pennsauken Sewerage Authority and to operate a stormwater collection system and a contact cooling water recycling system. The NJPDES permit became effective on November 1, 1986 and expires on October 31, 1991 (Attachment K). Quarterly sampling of this effluent conducted from December 1986 to December 1989 by BCM revealed that NJPDES discharge limits have been exceeded for chromium, aluminum, and total flow (Attachment J). In the event that the collection system failed or became overloaded a potential for surface water contamination via runoff from the site would exist.

There are palustrine open water, scrub/shrub broad-leaved deciduous and emergent freshwater wetlands located within 1 mile downslope of the site and riverine intermittent flat coastal wetlands located within 2 miles downslope of the site, both associated with the Delaware River.

The site is located in the United States Geological Survey (USGS) Camden Quadrangle. In this quadrangle within 1 mile of the site is habitat associated with the following Federal and state threatened and endangered species: shortnose sturgeon and American shad.

AIR ROUTE

Aluminum Shapes, NJDEPE, Division of Facility Wide Enforcement-Air and Environmental Enforcement, Air Pollution Control (APC) ID# 50071 currently maintains 28 NJDEP, air pollution control permits for make-up air heaters, process equipment exhausts, paint and foam spray booths and a Torit dust collector. The expiration dates for these permits varies from 1991 to 1996 (Attachment L).

There is a long history of odor complaints against Aluminum Shapes beginning in 1970, as well as one particulate emission complaint in 1980 and three noise complaints in 1986.

This is an active facility and a potential for air contamination from present site activities does exist.

SOIL

Soil in the vicinity of the site is classified as Freehold and Downer-Urban land complex (FxB) and Made Land (Ma). The soils of FxB are in urban and suburban use and have been disturbed by the stockpiling of surface soils, grading or leveling the area and excavating for foundations and then replacing the surface soil. The slope ranges from 0 to 5 percent. Ma consist of areas where the soil material has been so mixed by excavation and filling that the original soil horizons have been destroyed. In most places in Camden County the soil material near the surface of Ma is predominantly sand and gravel, but in a few places there is much fine material. Along the Delaware River Ma is composed of material from pumping and dredging operations and consists of boulders in addition to sand and gravel.

As a requirement of NJPDES permit #NJ0034576 BCM collected soil samples in the area of the former percolation field and analyzed them for total VOCs, TPHCs, cyanide and metals. All sample results were below NJDEPE action levels (Attachment M).

Post excavation samples were collected by Tank Test, Inc. of Marlton, New Jersey in March 1989 following the removal of the seven # 2 fuel oil UGSTs from the site. UGST 1 had a capacity of 30,000 gallons, UGSTs 2, 3, 6 and 7 had capacities of 20,000 gallons each and UGSTs 4 and 5 were 15,000 gallons each. Samples collected at the initial excavation depths revealed extensive TPHC contamination ranging from 100 parts per million (PPM) to 10,000 ppm. Samples collected after additional soil excavation was performed were all below the NJDEP action level for TPHCs except for one sample collected from UGST 7 excavation area which revealed TPHC contamination at 290 ppm. Based on these levels no further excavation was performed and the area was paved for a parking lot (Attachment N).

DIRECT CONTACT

This site is fenced and guarded; therefore, a potential does not exist for the off-site population to come into contact with hazardous materials at the site. Because hazardous materials are stored and handled on-site there exists a potential for direct contact with plant employees.

FIRE AND EXPLOSION

There have been two reported fires at the site, one in May 1989 and one in July 1990. The May 1989 incident involved a fire in a dumpster and was extinguished by Aluminum Shapes personnel. In July 1990 a tar-like substance ignited causing the evacuation of the facility and the fire department was called to the site (Attachment O).

There have been no reported explosions at the site. Present site activities would support future fires or explosions.

ADDITIONAL CONSIDERATIONS

There has been no reported damage to flora, fauna, off-site property or contamination of the food chain associated with the site. This is an active facility that stores hazardous waste on-site; therefore, a potential for spillage does exist which could negatively impact local flora and fauna and which could migrate and cause off-site property damage. In addition, a potential exists for damage to flora or fauna due to the presence of contaminated soil at the site.

ENFORCEMENT ACTIONS

The NJDEP, DEQ issued to Aluminum Shapes Administrative Orders (AOs) in 1970 for odor emissions, 1973 for particulate emissions, 1980 and 1986 for installing and operating process equipment without first obtaining the necessary permits and 1981 for a paperwork violation relating to VOC emissions (Attachment L).

The NJDEP, DWR issued a Telegram Order in February 1986 to Aluminum Shapes ordering the company to immediately cease the discharge of contaminated storm water from a hydraulic fluid tank dike; collect all contaminated soil in the discharge area and in the vicinity of the former transformer storage area; and sample the contaminated soil for metals, reactivity, polychlorinated biphynels (PCBs) and total petroleum hydrocarbons (TPHCs) (Attachment G).

Aluminum Shapes was issued an Administrative Order and Notice of Civil Administrative Penalty Assessment by the NJDEP, DWR in May 1990 for repeated violations of NJPDES discharge limits for VOCs, B/Ns, PHCs and chromium (Attachment J).

SUMMARY OF SAMPLING DATA

1. Sampling date: December, 1986

Sampled by: BCM
Burlington, New Jersey

Samples: Five groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4 and sump system discharge S01

Contaminants detected:

	Sample ID				
Parameter (ppb)	MW-1	MW-2	MW-3	MW-4	S01
benzene	9	25	42	ND	ND
trans-1,2-dichloroethene	24	ND	ND	52	ND
ethylbenzene	ND	50	140	ND	ND
vinyl chloride	8	ND	ND	ND	ND
chlorobenzene	ND	14	68	ND	ND
toluene	ND	5	5	ND	ND
1,1,1-trichloroethane	ND	ND	ND	ND	17

ND = Not Detected

All B/N sample results were below NJDEP action levels.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

2. Sampling dates: March 1987

Sampled by: BCM
Burlington, New Jersey

Samples: 5 groundwater samples and 13 soil samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: The groundwater samples were analyzed for VOCs and B/Ns while the soil samples were analyzed for metals, PHCs and VOCs.

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4; on-site sump system discharge S01 and soil samples B-1-6, B-1-10, B-1-14, B-2-6, B-2-8, B-2-10, B-2-12, B-2-14, B-3-6, B-3-8, B-3-10, B-3-12 and B-3-14 collected from the former percolation field

Contaminants detected:

	Sample ID			
Parameter (ppb)	MW-1	MW-2	MW-3	MW-4
benzene	38	72	55	ND
trans-1,2-dichloroethene	76	8.2	7	115
ethylbenzene	ND	8.1	18	ND
vinyl chloride	25	ND	ND	ND
chlorobenzene	6	48	29	ND
1,1,2,2-tetrachloroethene	ND	ND	ND	6.7

ND = Not Detected

All groundwater B/N sample results were below NJDEP action levels and all VOC sample results from the sump system were below detection limits. All soil sample results were below NJDEP action levels.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

3. Sampling date: June 1987

Sampled by: BCM
Burlington, New Jersey

Samples: Five groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4; and on-site sump system discharge S01

Contaminants detected:

Parameter (ppb)	Sample ID MW-1	MW-2	MW-3	MW-4
benzene	25	43	28	ND
trans-1,2-dichloroethene	32	11	ND	36
vinyl chloride	12	ND	ND	ND
chlorobenzene	ND	20	22	ND
1,1,2,2-tetrachloroethene	ND	ND	ND	8

ND = Not Detected

All B/N sample results were below NJDEP action levels and all VOC sample results from the sump system were below detection limits.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

4. Sampling date: October 1987

Sampled by: BCM
Burlington, New Jersey

Samples: Seven groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6; and on-site sump system S01

Contaminants detected:

Parameter (ppb)	Sample ID MW-1	MW-3	MW-4	MW-5	MW-6
benzene	29	5	ND	ND	ND
trans-1,2-dichloroethene	16	ND	7	ND	ND
ethylbenzene	ND	ND	ND	ND	2,700
vinyl chloride	9	ND	ND	ND	ND

Parameter (ppb)	MW-1	MW-3	MW-4	MW-5	MW-6
chlorobenzene	4	ND	ND	ND	ND
tetrachloroethene	ND	ND	6	ND	ND
toluene	ND	ND	ND	ND	1,500
methylene chloride	ND	ND	ND	6	ND

ND = Not Detected

The VOC 1,1,1-trichloroethane at 8.8 ppb was detected in the sump system. All B/N sample results were below NJDEP action levels. All sample results from MW-2 were non-detectable.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

5. Sampling date: December 1987

Sampled by: BCM
Burlington, New Jersey

Samples: Seven groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6; and on-site sump system discharge S01

Contaminants detected:

	Sample ID			
Parameter (ppb)	MW-1	MW-3	MW-5	MW-6
benzene	26	20	13	ND
trans-1,2-dichloroethene	16	ND	ND	6
ethylbenzene	ND	170	ND	ND
vinyl chloride	10	ND	ND	ND
chlorobenzene	ND	7	8	ND
tetrachloroethene	ND	ND	ND	ND
toluene	ND	ND	ND	1,500
methylene chloride	ND	ND	6	ND

ND = Not Detected

The VOC 1,1,1-trichloroethane at 7.0 ppb was detected in the sump system. All B/N sample results were below NJDEP action levels. All sample results for MW-2 and MW-4 were below NJDEP action levels.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

6. Sampling date: March 1988

Sampled by: BCM
Burlington, New Jersey

Samples: Seven groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6; and on-site sump system discharge S01

Contaminants detected:

	Sample ID				
Parameter (ppb)	MW-1	MW-3	MW-5	MW-6	S01
benzene	28	6	19	ND	ND
trans-1,2-dichloroethene	11	ND	ND	ND	ND
ethylbenzene	ND	14	ND	18	ND
vinyl chloride	8	ND	ND	ND	ND
chlorobenzene	ND	ND	14	ND	ND
tetrachloroethene	ND	6	ND	ND	ND
methylene chloride	ND	ND	159	15	59

ND = Not Detected

Chloroethane at 191.0 ppb was detected in MW-2. All B/N sample results were below NJDEP action levels. All sample results from MW-4 were non-detectable.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

7. Sampling date: June 1988

Sampled by: BCM
Burlington, New Jersey

Samples: Seven groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs, chromium and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6; and on-site sump system discharge S01

Contaminants detected:

	Sample ID			
Parameter (ppb)	MW-1	MW-2	MW-5	MW-6
benzene	ND	ND	37.7	ND
vinyl chloride	5.7	ND	ND	ND
tetrachloroethene	ND	ND	ND	5.5
1,1,1-trichloroethane	ND	8.7	ND	ND
1,1-dichloroethane	ND	12.5	ND	ND

ND = Not Detected

Chromium at 184.0 ppb was detected in MW-4. All B/N sample results were below NJDEP action levels and all VOC sample results from the sump system were below detection limits.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

8. Sampling date: September 1988

Sampled by: BCM
Burlington, New Jersey

Samples: Seven groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5, MW-6; and on-site sump system discharge S01

Contaminants detected:

	Sample ID					
Parameter	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
benzene	21	ND	ND	ND	13.2	ND
trans-1,2-dichloroethene	18.4	ND	ND	ND	ND	ND
ethylbenzene	ND	ND	ND	ND	ND	8.3
vinyl chloride	6.8	ND	ND	ND	ND	ND
trichloroethene	ND	5.9	6.5	ND	ND	ND
1,1,1-trichloroethane	13.1	15.4	10.6	6.9	6.3	ND
1,1-dichloroethane	ND	13.8	5.1	ND	5.5	ND
chloroethane	ND	5.9	6.5	ND	ND	ND

ND = Not Detected

Chromium at 161.0 ppb was detected in MW-4 and bis(2-ethylhexyl)phthalate at 51.8 ppb was detected in MW-1. All VOC sample results from the sump system were below detection limits.

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

9. Sampling date: November 7 and 8, 1988

Sampled by: NJDEP/OEP/SRE
Gibbsboro, New Jersey

Samples: Four groundwater samples were collected on November 7 and two groundwater samples were collected on November 8.

Laboratory: New Jersey Department of Health (NJDOH) Environmental and Chemistry Laboratory

	Trenton, New Jersey Lab Certification # 11148
Parameters:	VOCs and metals
Sample description:	On-site monitoring wells MW-3, MW-4 and MW-6
Contaminants detected:	All VOC sample results were below NJDEP action levels. Chromium at 111 ppb, 1000 ppb and 89 ppb was detected in MW-3, MW-4 and MW-6, respectively.
QA/QC:	All QA/QC data was submitted to the NJDEP.
File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment M)

10. Sampling date: March 1989

Sampled by:	BCM Burlington, New Jersey
Samples:	Six groundwater samples
Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
Parameters:	VOCs, PCBs, chromium and B/Ns
Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6

Contaminants detected:

	Sample ID			
Parameter	MW-1	MW-2	MW-3	MW-4
benzene	7.2	ND	ND	ND
1,1,1-trichloroethane	14	7.8	ND	9.7
methylene chloride	ND	240	16	194
bis(2-ethylhexyl)phthalate	269	257	50	ND

ND = Not Detected

Total chromium at 193.0 ppb was detected in MW-4. All sample results were below NJDEP action levels for MW-5 and MW-6.

	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
11.	Sampling date:	June 1989
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Six groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
	Parameters:	VOCs, PCBs, chromium and B/Ns
	Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6
	Contaminants detected:	Benzene was detected at 5.4 ppb in MW-1 and 20 ppb in MW-5. Total chromium was detected in MW-4 at 219 ppb.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
12.	Sampling dates:	March 17, 18, 27 and 28, 1989
	Sampled by:	Tank Test, Inc. Marlton, New Jersey
	Samples:	77 soil samples
	Laboratory:	Northeast Analytical Corp. (NAC) Marlton, New Jersey Lab Certification # 03117
	Parameters:	TPHCs
	Sample description:	Soil samples collected from the UGST excavation area.

Contaminants Detected:

March 17, 1989

UGST #6

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#1	11.5	260
#2	11.5	210
#5	11.5	290
#10	11.25	270

March 18, 1989

UGST #7

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#16	11.0	240
#17	11.0	780
#21	11.0	2,000

March 27, 1989

UGST #1

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#20	8.6	2,100
#22	8.6	180
#23	8.6	1,100
#24	8.6	660
#25	8.6	480
#26	8.6	150
#27	8.6	110
#30	8.6	10,000
#31	8.6	2,700
#32	8.6	220

UGST #2

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#10	8.6	130
#14	8.6	150
#15	8.6	300
#16	8.6	2,100

UGST #3

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#1	8.6	350
#2	8.6	1,100

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#3	8.6	260
#9	8.6	680

March 28, 1989

UGST # 4

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#1	11.6	920
#3	11.7	3,200
#11	11.7	370

UGST # 5

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#8	11.7	270
#9	11.7	290
#10	11.6	460

PUMP HOUSE

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#14	11.6	230
#15	11.4	1,600
#16	11.5	6,600
#17	11.7	640

UGST # 6

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#1	13.3	ND
#2	13.3	ND
#5	13.3	ND
#10	13.3	ND

UGST #7

SAMPLE ID	DEPTH (feet)	TPHC CONCENTRATION (ppm)
#16	13.3	ND
#17	13.3	290
#21	13.3	ND

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

13.	Sampling dates:	April 3 and 7, 1989
	Sampled by:	Tank Test Incorporated Marlton, New Jersey
	Samples:	Six soil samples
	Laboratory:	Northeast Analytical Corp. (NAC) Marlton, New Jersey Lab Certification # 03117
	Parameters:	TPHCs
	Sample description:	Soil samples #2, #10, #16 and #26 collected from the UGST excavation area.
	Contaminants Detected:	All sample results were below detection limits.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment N)
14.	Sampling date:	September 1, 1989
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Three groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
	Parameters:	VOCs and B/Ns
	Sample description:	On-site monitoring wells MW-7 and MW-8
	Contaminants detected:	All sample results were below NJDEP action levels.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/DRPSR/BUST Trenton, New Jersey (Attachment I)

15. Sampling date: September 1989

Sampled by: BCM
Burlington, New Jersey

Samples: Six groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs, PCBs, chromium and B/Ns

Sample description: On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6

Contaminants detected:

	Sample ID			
Parameter	MW-2	MW-4	MW-5	MW-6
benzene	ND	20	20	6.7
1,1,1-trichloroethane	6.7	5.4	ND	ND
chlorobenzene	ND	ND	6.9	ND
ethylbenzene	ND	ND	8.5	360
1,1-dichloroethane	ND	ND	ND	11
toluene	ND	ND	ND	260
chromium	ND	709	ND	ND

ND = Not Detected

QA/QC: All QA/QC data was submitted to the NJDEP.

File location: NJDEP/OEP/SRE
Gibbsboro, New Jersey
(Attachment I)

16. Sampling date: November 3 and 4, 1989

Sampled by: BCM
Burlington, New Jersey

Samples: Three groundwater samples

Laboratory: BCM Eastern, Inc.
Plymouth Meeting, Pennsylvania
Lab Certification # 77175

Parameters: VOCs and B/Ns

Sample description: On-site monitoring wells MW-7 and MW-8

	Contaminants detected:	Methylene chloride was detected in MW-8 at 15.0 ppb and bis-(2-ethylhexyl)phthalate at 374 ppb was detected in MW-7.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
17.	Sampling date:	December 1989
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Six groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
	Parameters:	VOCs, PCBs, chromium and B/Ns
	Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6
	Contaminants detected:	Ethylbenzene at 1,170.0 ppb, methylene chloride at 79.0 ppb and toluene at 500.0 ppb were detected in MW-6
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
18.	Sampling date:	March 1990
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Six groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
	Parameters:	VOCs, PCBs, chromium and B/Ns
	Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6

	Contaminants detected:	Methylene chloride at 6.8 ppb was detected in MW-3, 1,1,1-trichloroetane was detected in MW-4, benzene at 7.7 ppb was detected in MW-5 and ethylbenzene at 2870.0 ppb and toluene at 1310.0 ppb were detected in MW-6.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
19.	Sampling date:	June 1990
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Six groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175
	Parameters:	VOCs, PCBs, chromium and B/Ns
	Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6
	Contaminants detected:	Benzene at 7.1 ppb was detected in MW-5; 1,1,1-trichloroethane 22 ppb was detected in MW-4 ; and ethylbenzene at 1310.0 ppb, toluene at 432.0 ppb and 1,2-trans-dichloroethene at 49.0 ppb were detected in MW-6.
	QA/QC:	All QA/QC data was submitted to the NJDEP.
	File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)
20.	Sampling date:	September 1990
	Sampled by:	BCM Burlington, New Jersey
	Samples:	Six groundwater samples
	Laboratory:	BCM Eastern, Inc. Plymouth Meeting, Pennsylvania Lab Certification # 77175

Parameters:	VOCs, PHCs, PCBs, chromium and B/Ns
Sample description:	On-site monitoring wells MW-1, MW-2, MW-3, MW-4, MW-5 and MW-6
Contaminants detected:	1,2-trans-dichloroethene at 5.8 ppb was detected in MW-1, trichloroetene at 5.8 ppb was detected in MW-3, total chromium at 206.0 ppb was detected in MW-4, methylene chloride at 6.4 ppb was detected in MW-5 and PHCs at 2080.0 ppb, ethylbenzene at 1410.0 ppb, toluene at 101.0 ppb and 1,2-trans-dichloroethene at 108.0 ppb were detected in MW-6.
QA/QC:	All QA/QC data was submitted to the NJDEP.
File location:	NJDEP/OEP/SRE Gibbsboro, New Jersey (Attachment I)

RECOMMENDATIONS

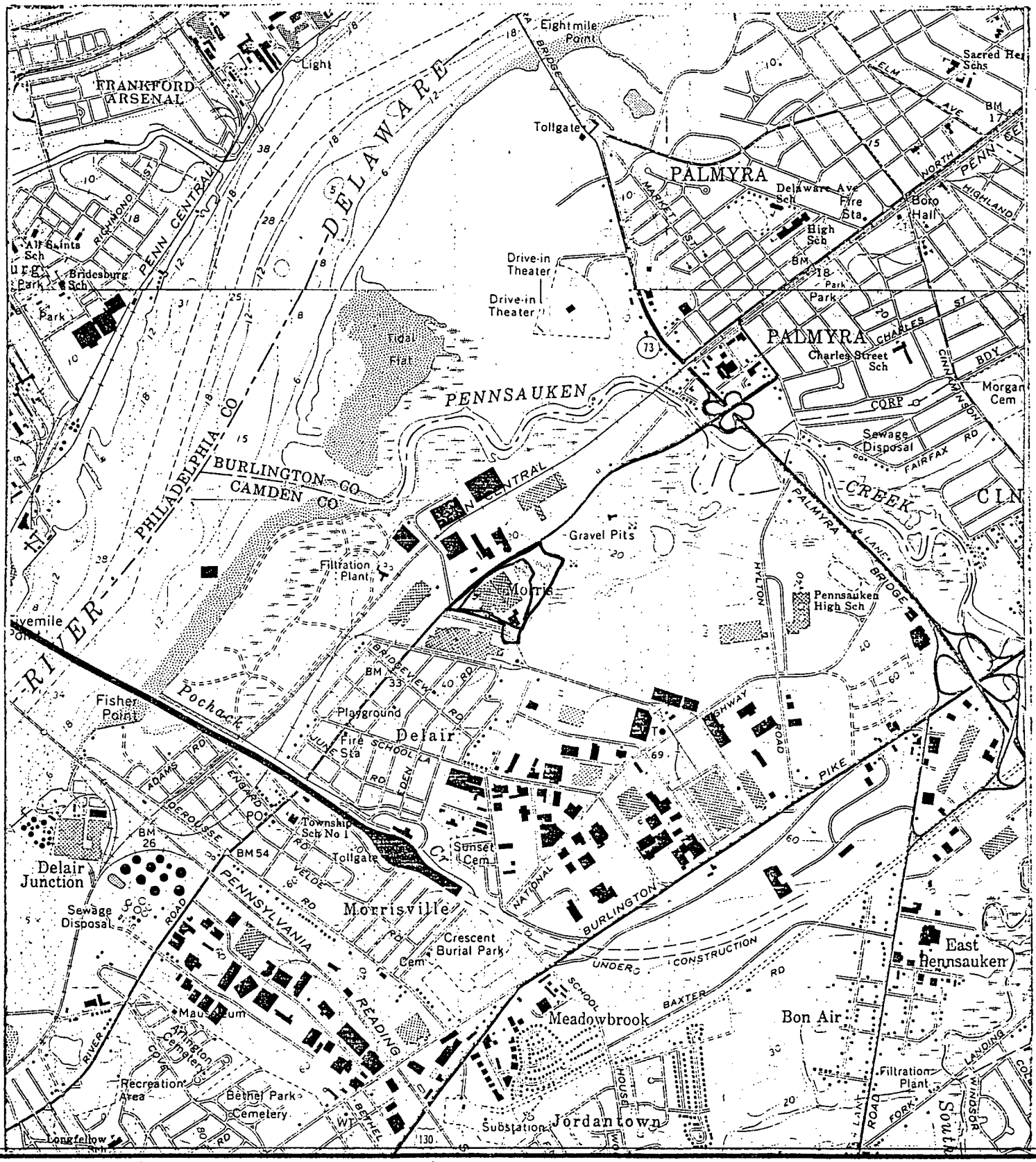
The NJDEPE, Office of enforcement Policy, Southern Region Enforcement and the NJDEPE, Division of Publicly Funded Site Remediation, Bureau of Groundwater Pollution Abatement have been conducting groundwater contamination investigations with reference to the nearby Camden City Wellfields. Both Bureaus have been monitoring the site as a possible source of groundwater contamination. The NJDEPE, Division of Environmental Regulation, Bureau of Industrial Discharge Permits is also monitoring the site under the NJPDES program. Currently this site is with the NJDEPE, DRPSR, Bureau of Site Assessment, Responsible Party Investigation Unit which is conducting a responsible party (RP) search. Upon completion of the RP search the case will be transferred to the NJDEPE, Division of Responsible Party Site Remediation, Bureau of State Case Management which will be the lead agency overseeing any remediation required at the site.

Based on the sampling data available and the involvement of NJDEP remedial programs, no further action relative to the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) is required by the NJDEP, DRPSR, Bureau of Site Assessment at this time.

Submitted by:

Michael DiGiore, HSMS III
NJDEP, Bureau of Site Assessment
July 1991

MAPS



SCALE 1:24000

1 ½ 0 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

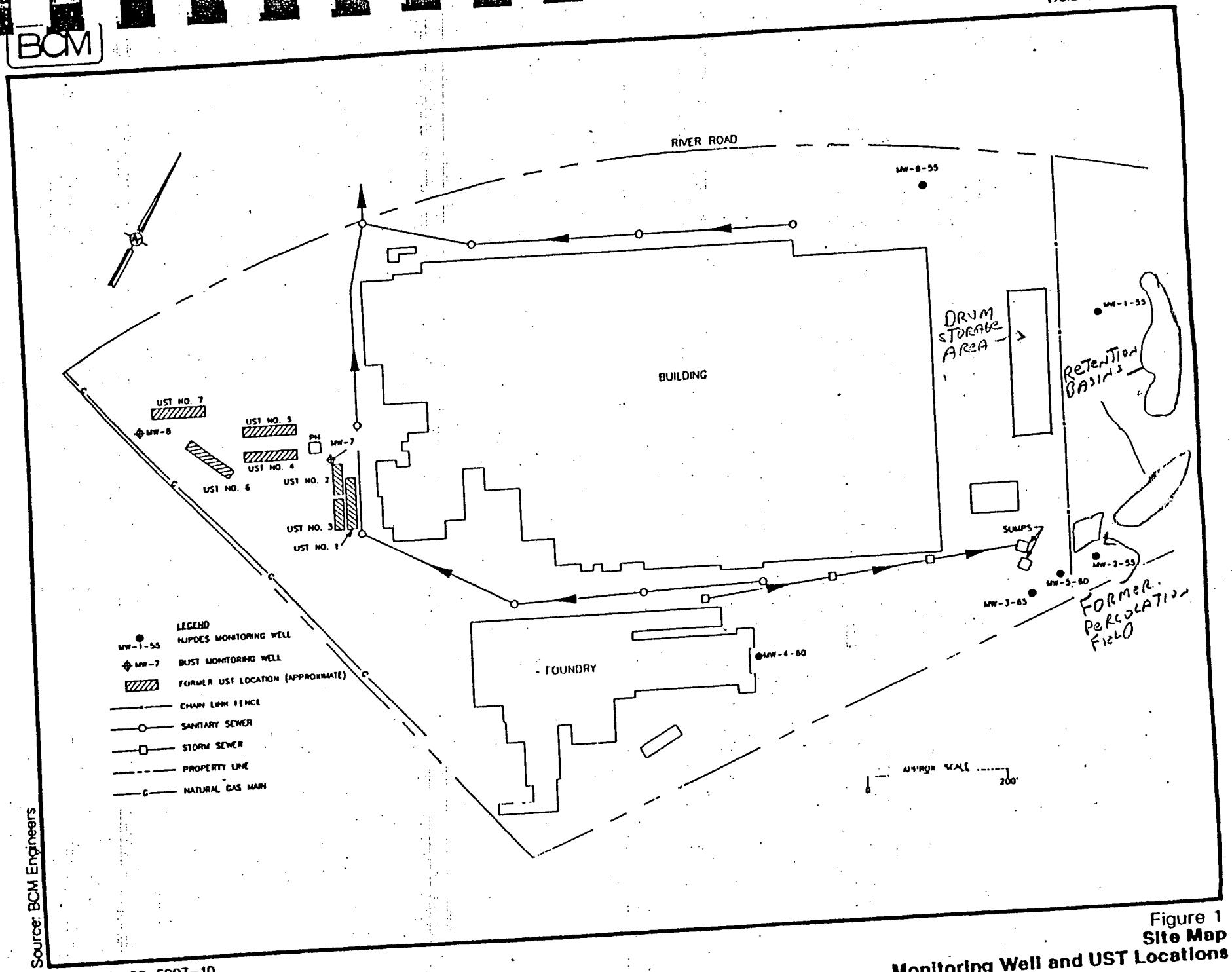
1 .5 0 1 KILOMETER

CONTOUR INTERVAL 20 FEET
DATUM IS MEAN SEA LEVEL

ALUMINUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
LATITUDE: 40 59' 15"
LONGITUDE: 75 20' 37"
USGS TOPOGRAPHIC MAP
MAP 1

[redacted]minum Shapes, Inc.
[redacted]lair, [redacted]erse[redacted]

BCM

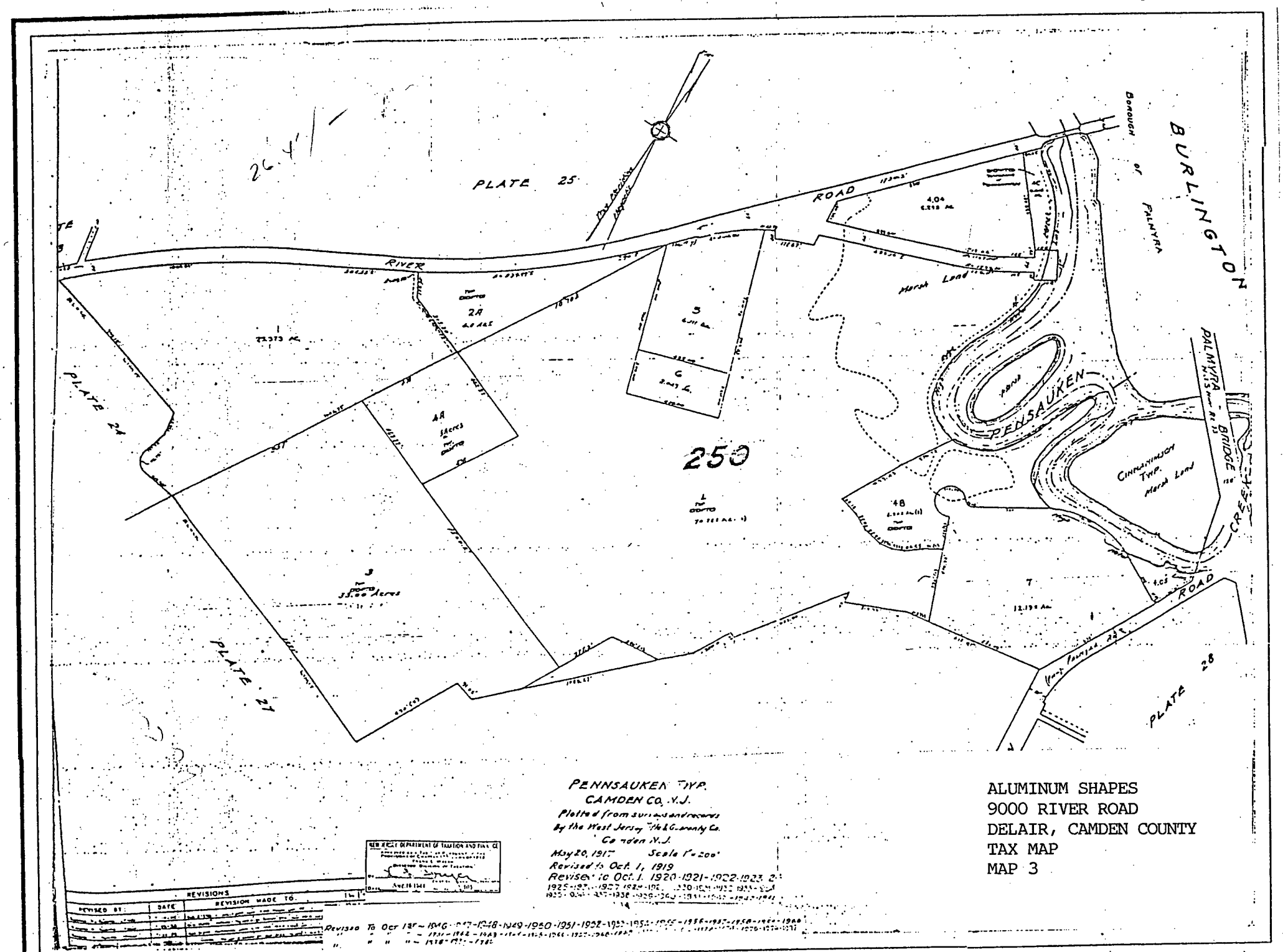


Source: BCM Engineers

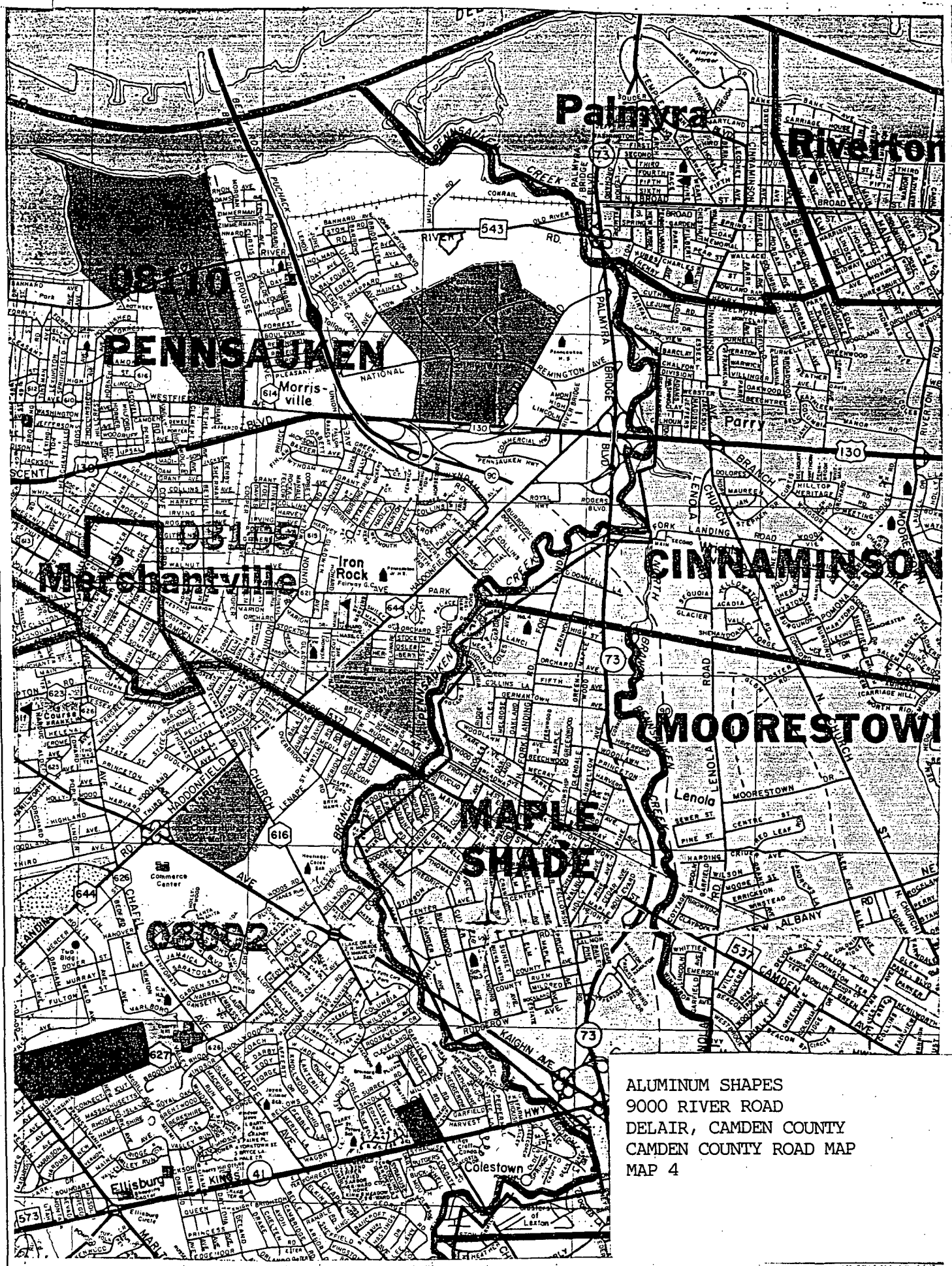
Mike

Project No. 00-5007-10

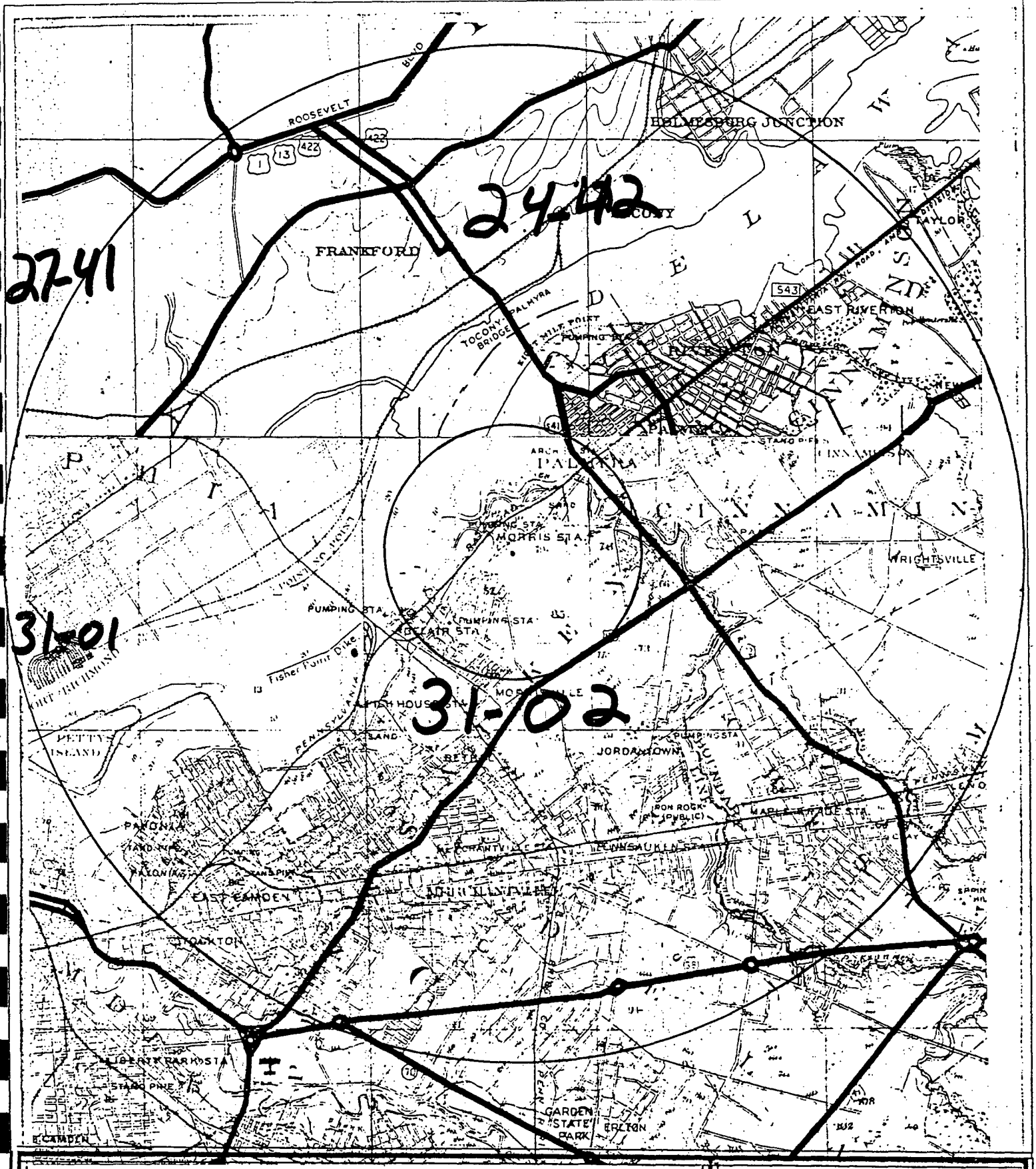
Figure 1
Site Map
Monitoring Well and UST Locations



ALUMINUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
TAX MAP
MAP 3



ALUMINUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
CAMDEN COUNTY ROAD MAP
MAP 4



Scale: 1 Mile to an Inch.

Miles: 1 3/4 1/2 1/4 0 1 2 3

Yards: 1000 500 0 1000 2000 3000

Meters: 1000 500 0 1000 2000 3000

A. HOEN & CO. BALTIMORE, MD.

Contour Interval: 20 feet

ALUMINUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
NEW JERSEY ATLAS
BASE MAP- SHEETS 24, 27 & 31
MAP 5

LEGEND FOR ATLAS SHEET 24

△ — INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE (INCLUDING PRIVATE WELLS)

□ — PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE

⊕ — UNSUCCESSFUL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊙ — UNSUCCESSFUL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊞ — NO TEST — NO DATA ON YIELD

FAULT (DASHED WHERE INFERRED)

CONTACT (DASHED WHERE INFERRED)

PHYSIOGRAPHIC PROVINCE BOUNDARY

QUATERNARY

Qa – RECENT ALLUVIUM

Qod – OLDER DRIFT (PRE WISCONSIN)

TRIASSIC

Ꞧb – BRUNSWICK FORMATION (UNDIFFERENTIATED)

Ꞧba – RED SHALE INTERBEDDED WITH SANDSTONE, SILTSTONE, AND ARGILLITE

Ꞧl – LOCKATONG FORMATION

Ꞧs – STOCKTON FORMATION

Ꞧc – CONGLOMERATE

Ꞧdb – DIABASE

ORDOVICIAN

Omb – MARTINSBURG FORMATION (UNDIFFERENTIATED)

- Om3 ARGILLACEOUS SHALE WITH A FOSSILIFEROUS ZONE
- Om2 ARGILLACEOUS SHALE AND GRAYWACKE
- Om1 BLACK FISSILE SHALE
- Oju JUTLAND MEMBER- VARI-COLORED SHALES & SILTSTONES
- Ojul JUTLAND MEMBER-LIMESTONE
- Ojus JUTLAND MEMBER-SANDSTONE, SHALE, CONGLOMERATE

Ojb – JACKSONBURG FORMATION (UNDIFFERENTIATED)

- Ojr CEMENT ROCK
- Ojl CEMENT LIMESTONE

LEGEND FOR ATLAS SHEET 24 (con't)

Oe - EPLER FORMATION
Or - RICKENBACH FORMATION

CAMBRIAN

€a - ALLENTOWN FORMATION
€l - LEITHSVILLE FORMATION
€h - HARDYSTON FORMATION

CAMBRO-ORDOVICIAN
€Ok KITTATINNY (UNDIFFERENTIATED)

PRE CAMBRIAN

P€ - (UNDIFFERENTIATED)
am - AMPHIBOLITE
gnb - BIOTITE GNEISS
gnk - POTASSIC FELDSPAR GNEISS
mr - DOLOMITE & CALCITE MARBLE
msv - METASEDIMENTARY & METAVOLCANIC (UNDIFFERENTIATED)
ga - ALASKITE
gma - MICRO PERTHITE ALASKITE
mig - AMPHIBOLITE-MIGMATITE
gno - OLIGOCLASE-QUARTZ GNEISS

LEGEND FOR ATLAS SHEET 27

△ —— INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE

□ —— PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE

⊕ —— UNSUCCESSFULL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊙ —— UNSUCCESSFULL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

[†] —— NO TEST – NO DATA ON YIELD

——— FAULT (DASHED WHERE INFERRED)

——— CONTACT (DASHED WHERE INFERRED)

PIEDMONT / COASTAL PLAIN — PHYSIOGRAPHIC PROVINCE BOUNDARY

SEDIMENTARY ROCKS

TERTIARY

Tkw	KIRKWOOD SAND
Tht	HORNERSTOWN MARL

CRETACEOUS

Kns	NAVESINK MARL
Kml	MOUNT LAUREL SAND
Kw	WENONAH SAND
Kmt	MARSHALLTOWN FORMATION
Ket	ENGLISHTOWN SAND
Kwb	WOODBURY CLAY
Kmv	MERCHANTVILLE CLAY
Km	MAGOTHY FORMATION
Kr	RARITAN FORMATION

TRIASSIC

Ꞧb	BRUNSWICK FORMATION
Ꞧba	BEDS SIMILAR TO LOCKATONG FORMATION
Ꞧl	LOCATONG FORMATION
Ꞧs	STOCKTON FORMATION

CAMBRIAN

Ꞓh	HARDYSTON QUARTZITE

IGNEOUS ROCKS

TRIASSIC

Ꞧdb	DIABASE
Ꞧbs	BASALT

PRECAMBRIAN

gb	GABBRO
bgn	BYRAM GNEISS

METAMORPHIC ROCKS

UNKNOWN ORIGIN

Wgn	WISSAHICKON SCHIST

LEGEND FOR ATLAS SHEET 31

△ INDUSTRIAL WELL YIELD OVER 70 GALLONS PER MINUTE

□ PUBLIC SUPPLY WELL YIELDING OVER 70 GALLONS PER MINUTE

⊕ UNSUCCESSFULL ROCK WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

⊙ UNSUCCESSFULL SAND WELL YIELDING LESS THAN 70 GALLONS PER MINUTE

[T] NO TEST – NO DATA ON YIELD

——— FAULT (DASHED WHERE INFERRED)

——— CONTACT (DASHED WHERE INFERRED)

PIEDMONT / COASTAL PLAIN — PHYSIOGRAPHIC PROVINCE BOUNDARY

WATER SUPPLY TRANSMISSION LINE

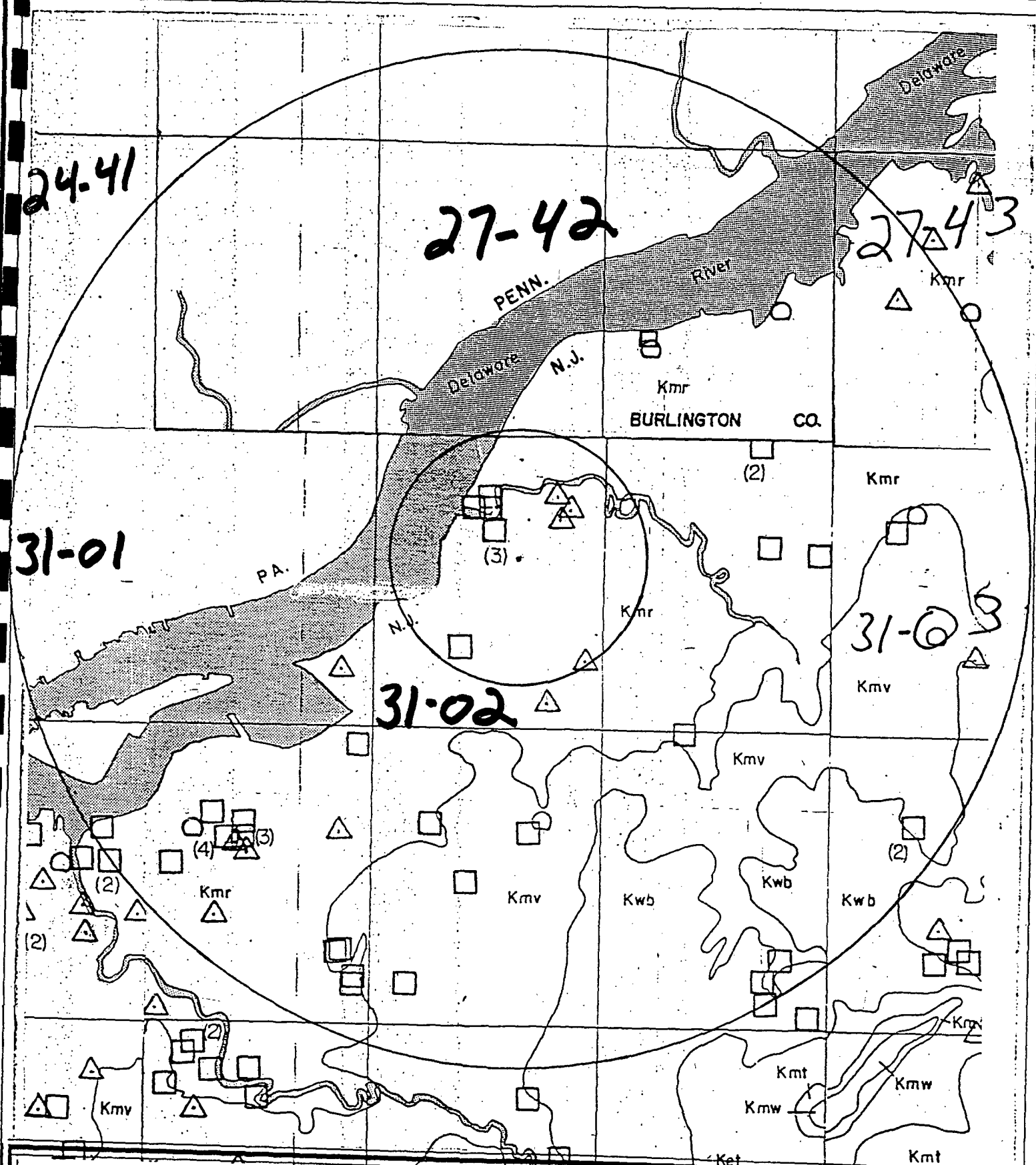
SEDIMENTARY ROCKS

TERTIARY

Tbh	BEACON HILL GRAVEL
Tch	COHANSEY SAND
Tkw	KIRKWOOD SAND
Tmq	MANASQUAN MARL
Tvt	VINCENTOWN SAND
Tht	HORNERSTOWN MARL

CRETACEOUS

Krb	RED BANK
Krbt	RED BANK (TRANSITIONAL UNIT)
Krbg	RED BANK (GLAUCONITE SAND UNIT)
Kns	NAVESINK MARL
Kml	MOUNT LAUREL SAND
Kw	WENONAH SAND
Kmt	MARSHALLTOWN FORMATION
Ket	ENGLISHTOWN SAND
Kwb	WOODBURY CLAY
Kmv	MERCHANTVILLE CLAY
Kmr	MAGOTHY AND RARITAN FORMATIONS
Km	MAGOTHY FORMATION
Kr	RARITAN FORMATION



Scale: 1 Mile to an Inch.

Miles 1 3/4 1/2 1/4 0 1 2 3

Yards 1000 500 0 1000 2000 3000

Meters 1000 500 0 1000 2000 3000

A. HOEN & CO. BALTIMORE, MD.

Contour Interval: 20 feet

ALUMINUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
NEW JERSEY ATLAS GEOLOGIC
OVERLAY- SHEETS 24, 27 &
31
MAP 6

LEGEND

WATER SUPPLY

- AREA SERVED BY PRIVATE WATER SERVICE COMPANIES
- AREA SERVED BY REGIONALLY OWNED WATER SERVICE COMPANIE
- AREA SERVED BY MUNICIPALLY OWNED WATER SERVICE COMPANIE
- AREA NOT PRESENTLY SERVED BY WATER SERVICE
- PUBLIC SUPPLY WELLS
- WATER MAIN ACROSS HIGHWA FOR FUTURE USE
- SURFACE WATER INTAKE
- —W— MAJOR WATER MAINS

SEWAGE, LANDFILL

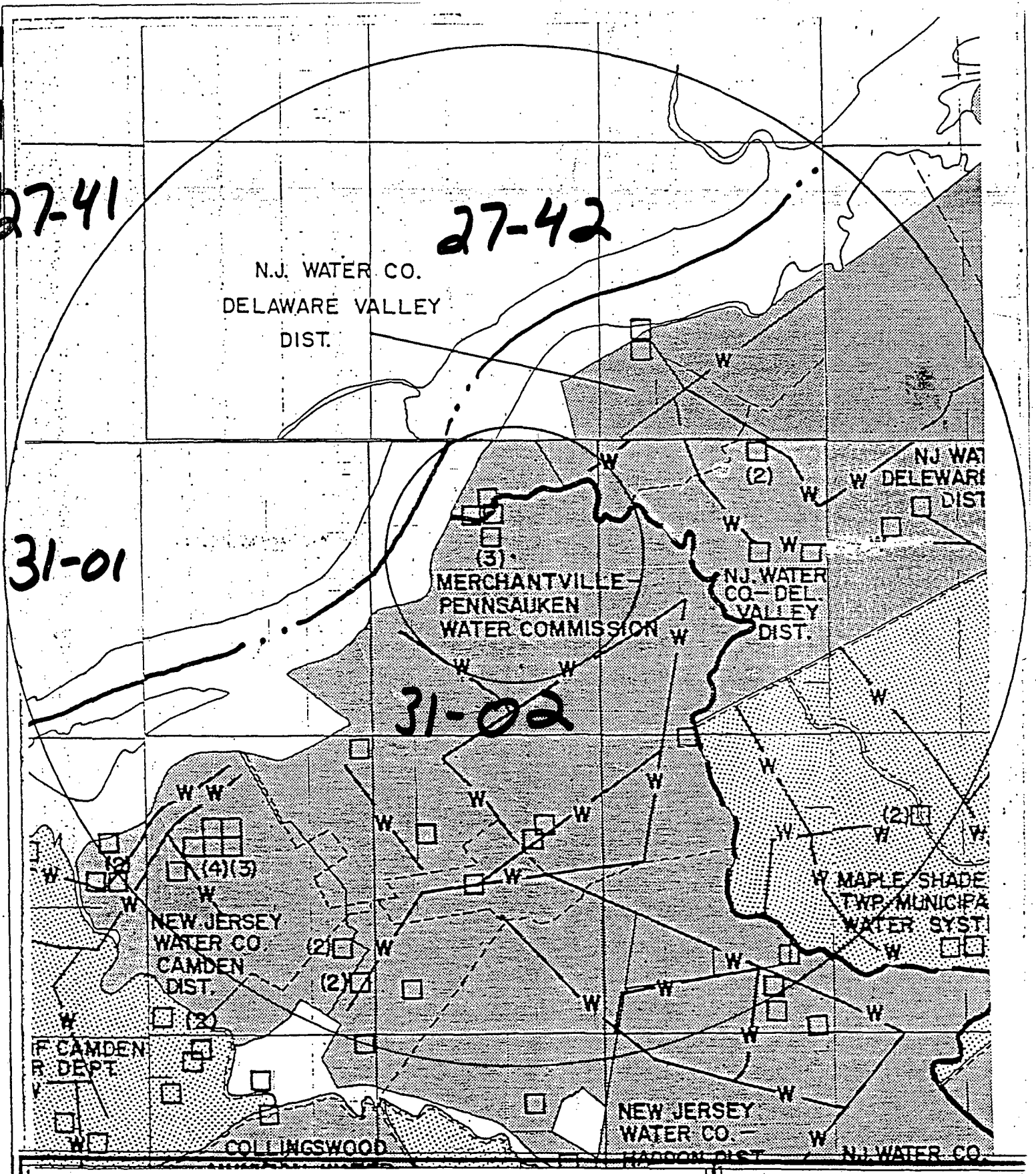
- AREA SERVED BY PUBLIC SEWAGE SERVICE
- AREA NOT PRESENTLY SERVED BY SEWAGE SERVICE
- SANITARY LANDFILLS
- SEWAGE TREATMENT PLANTS (CAPACITY <0.3mgd)
- SEWAGE TREATMENT PLANTS (CAPACITY ≥0.3mgd)
- —S— MAJOR SEWAGE TRANSMISSION LINES

AINAGE BASIN

- DRAINAGE BASIN BOUNDARY
- RIVER BASIN BOUNDARY
- HUDSON DRAINAGE BASIN NAME
- STREAMS AND RIVERS
- FLOOD PRONE AREAS

POPULATION

- COUNTY BOUNDARY
- MUNICIPAL BOUNDARY
- ( ) POPULATION DENSITY IN PERSONS PER SQUARE MILE
- [ ] AREA IN SQUARE MILES
- % PERCENT AREA OF MUNICIPALITY ON BLOCK
- MARKET ROADS
- BUILT UP AREAS
- STATE BOUNDARY



Scale: 1 Mile to an Inch.

Miles

Yards

Meters

Contour Interval: 20 feet

ALUMUNUM SHAPES
9000 RIVER ROAD
DELAIR, CAMDEN COUNTY
NEW JERSEY ATLAS WATER
SUPPLY OVERLAY- SHEETS 24,
27 & 31
MAP &

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
27-43-271	Riverside Twp.	1954	35/47	47	75	Kmr
27-43-276	St.Peters R.C. Church	1956	52/64	64	100	"
27-43-279	Bishop's Dairies	1956	53/63	63	100	"
27-43-278	Delaware Valley Water Co.	1967	97/120	120	800	"
27-43-278	"	1955	-	100	15	"
27-43-286	"	1955	97/118	118	483	"
27-43-324	Beauknit Mills (3 wells)	-	-	65(av.)	150(av.)	"
27-43-336	Levitt & Sons, Inc.	-	-	280	-	"
27-43-391	"	1955	-	250	-	"
27-43-391	Robbins, Edward & Sons	1959	-	181	250	"
27-43-393	Levitt, Wm.	1955	147/199	199	990	"
27-43-423	Amico Sand & Gravel Co.	1957	39/49	49	120	"
27-43-427	Haeganes Sponge Iron Co.	1951	119/134	136	326	"
27-43-438	Delaware River Water Co.	1959	89/130	130	974	"
27-43-446	Air Reduction Sales Corp.	1953	138/158	165	115	"
27-43-456	Shell Chemical Co.	1958	101/134	135	254	"
27-43-529	Bridgeboro School Bd.	-	-	250	-	"
27-43-537	Delaware Valley Water Co.	1970	181/235	236	760	"
27-43-539	Delran Twp.	1960	222/232	232	75	"
27-43-543	Delaware River Water Co.	1964	115/165	168	1218	"
27-43-546	Millside Farms	1956	90/106	106	444	"
27-43-551	Holy Cross High School	1958	154/174	174	185	"
27-43-571	Gulf Development Co.	1963	147/157	162	100	"

J. Geodetic Control Survey monuments described
Index Map 44; adjacent Index Maps 45,48,49

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
31-01-652	City of Camden, #5	1963	134-169	171	1000	Kmr
31-01-655	H. Kohnstamm & Co., Inc.	1954	116-136	136	150	"
31-01-656	U.S. Gasket, #1	1953	130-141	153	100	"
31-01-657	Savar Amusement Corp.	1950	82-113	113	500*	Kr
31-01-657	Stanley Corp. of America	1949	118-138	150	200*	"
31-01-662	City of Camden, #15	1954	116-136	155	1000	"
31-01-664	Camden Water Dept., #1-A	1953	155-170	175	1000	"
31-01-665	City of Camden, Test Well #1	1950	129-150	166	300	"
31-01-665	" #14	1953	105-145	164	1000	"
31-01-667	Sungil Co.	1947	147-157	157	100	"
31-01-669	Paris Produce Co.	1964	150-166	167	100	Kmr
31-01-673	Lintonia Pure Food Shop, Inc.	1950	102-123	128	315*	"
31-01-681	Savar Amusement Corp., #2	1950	110-130	130	500*	Kr
31-01-681	Camden Trust Co.	1949	93-123	127	430*	"
31-01-684	Stanley Corp. of America	1949	110-130	152	600*	"
31-01-687	Savar Amusement Corp.	1949	114-134	138	600	"
31-01-691	Baltimore Markets, #2	1950	138-170	170	1200*	"
31-01-912	Public Service Elec.& Gas Co.	1950	120-146	149	600	"
31-01-912	"	1954	113-145	145	350	"
31-01-916	City of Camden, #2-B	1953	111-136	204	1000	"
31-01-921	Stanley Corp. of America	1949	86-150	163	250*	"
31-01-928	Samuel Adelson	1952	92-102	102	200	"
31-01-929	Camden Water Dept.	1948	111-136	165	1012	"
31-01-934	Liberty Theatre #1	1949	112-130	130	150	"
31-01-943	MacAndrews & Forbes Co.	1951	82-103	114	350	"
31-01-956	Camden Water Dept.,#7	1966	123-163	167	1023	"
31-01-961	City of Camden, #11	1942	124-154	166	1005	"

*Indicates use as a recharge well.

J. Geodetic Control Survey monuments described in Index Map 48; Adjacent Index Maps 44,54

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Fo
31-02-195	Paragon Oil Co., #1	1961	51-61	61	100	Km
31-02-225	City of Camden, #4-A	1960	95-130	134	1585	"
31-02-227	" #5-NA	1960	79-114	121	1520	"
31-02-228	" #3	1953	73-107	136	1000	"
31-02-228	" #8	1953	89-124	141	1000	"
31-02-228	" #10	1960	75-115	118	1529	"
31-02-235	Kingston Trap Rock	1955	55-65	68	125	"
31-02-238	" #2	1966	115-123	127	200	"
31-02-238	Atlantic Blue Diamond Corp.	1958	100-110	110	180	"
31-02-281	City of Camden	1975	140-180	190	1200	"
31-02-293	Meadow Brook Swim Club	1963	97-107	107	200	"
31-02-297	H&H Industries	1959	71-81	81	100	"
31-02-331	Riverton-Palmyra Water Co. #16	1965	144-176	192	1034	"
31-02-331	" #13	1963	166-197	206	610	"
31-02-361	Delaware Valley Water Co., #28	1969	225-260	264	1200	"
31-02-363	" #31	1970	215-261	267	1002	"
31-02-419	New Jersey Water Co., #50	1958	139-170	176	1000	"
31-02-427	" #25	1961	305-367	399	1050	"
31-02-433	Merchantville-Pennsauken Water Co.	1968	109-139	139	882	"
31-02-442	City of Camden, Test #6	1954	153-175	181	210	Kr
31-02-443	New Jersey Water Co., #44	1950	154-186	187	1400	Km
31-02-443	" #45	1950	141-173	173	955	"
31-02-443	" #46	1950	148-178	179	1400	"
31-02-443	" #48	1954	122-164	171	1412	"
31-02-444	City of Camden, #16	1954	149-179	181	1000	"
31-02-449	Savar Amusement Corp.	1949	169-189	189	450	"
31-02-451	H. Kohnstomm & Co., Inc., #5-A	1967	163-184	194	200	"
31-02-451	"	1959	133-158	158	250	"
31-02-451	New Jersey Water Co., #52	1965	147-198	198	1404	"
31-02-451	" #38	1933	126-162	166	846	"
31-02-451	" #47	1953	159-175	177	1012	"
31-02-462	Parks Dairies	1958	154-170	172	200	"
31-02-477	Camden Co. Park Commission	1950	186-217	217	1200	"
31-02-492	Merchantville-Pennsauken Water Comm., #9	1956	107-137	141	875	"
31-02-492	" #10	1963	223-258	262	1000	"
31-02-496	" #2-A	1965	110-140	143	900	"
31-02-496	" #1-R	1971	132-152	159	875	"
31-02-519	" Test Well	1963	118-138	160	400	"
31-02-537	" Test Well #1	1956	247-268	293	317	"
31-02-554	" #2	1962	245-285	300	1040	"
31-02-561	" #6	1957	242-277	283	1020	"
31-02-575	Camden Co. Board of Ed.	1967	322-401	401	320	"
31-02-621	Merchantville-Pennsauken Water Comm., #7	1958	240-275	330	1000	"
31-02-692	" #8	1960	207-237	240	875	"
31-02-694	New Jersey Water Co., #22	1960	371-453	497	1067	"
31-02-697	" #24	1961	112-167	186	1051	"
31-02-699	"	1967	376-427	430	1030	"

31-02-712	City of Camden, Test #5	1953	205-225	277	280	Kmr
31-02-712	"	1953	185-225	243	1000	"
31-02-712	" #17	1954	230-265	274	1000	"
31-02-714	"	1953	90-115	123	1000	"
31-02-716	Our Lady of Lourdes Hospital	1963	237-257	261	275	"
31-02-718	A. N. Stoll Werck, Inc.	1950	111-131	136	210	"
31-02-725	Boro.of Collingswood, #3-R	1960	257-287	294	1000	Kr
31-02-728	" #2-B	1960	248-278	308	1000	Kmr
31-02-754	Friendship Dairy, #1	1955	143-164	164	100	"
31-02-773	Boro.of Collingswood Test #1	1964	307-333	370	-	"
31-02-774	A.M.Ellis Theatres,Inc.,#5	1961	83-103	115	250*	"
31-02-781	Boro.of Collingswood, "B"	1965	224-313	336	1034	"
31-02-782	" "A"	1965	219-312	331	1034	"
31-02-837	New Jersey National Guard	1956	96-111	111	150	"
31-02-857	Morgan Brothers, Inc.	1967	431-451	451	302	"
31-02-865	Joe's Trailer Camp	1955	112-122	122	70	"
31-02-879	Twp. of Haddon, #4	1965	417-448	455	1000	"
31-02-879	" #3	1956	432-469	490	800	"
31-02-887	" Bd.of Ed.,#1	1966	142-162	165	200	"
31-02-887	" New #1	1968	401-479	481	870	"
31-02-898	Boro.of Haddonfield,Test #1	1965	490-510	510	350	"
31-02-899	"	1967	307-372	380	1029	"
31-02-982	New Jersey Water Co.,#23	1960	321-378	405	1001	"
31-02-982	" #13	1958	491-527	527	1200	"
31-02-986	Hunt Tract Swimming Club	1957	232-243	243	90	"

*Indicates use as a recharge well.

J. Geodetic Control Survey monuments described in Index Map 48; Adjacent Index Maps 44,49,54,55

I. Water Well Records

Location	Owner	Year Drilled	Screen Setting or Depth of Casing	Total Depth	g/m Yield	Formation
31-03-119	Riverton-Palmyra Water Co. #12	1961	157-196	201	900	Kmr
31-03-127	#10	1959	240-281	308	1051	"
31-03-135	#15	1964	166-225	229	1060	"
31-03-136	#14	1964	179-229	325	1266	"
31-03-158	Campbell Soup Co.	1959	-	264	-	Kr
31-03-183	"	1971	339-369	395	602	"
31-03-258	Moorestown Field Club,#1	1964	274-302	304	400	"
31-03-328	Twp.of Moorestown, #4	1960	298-337	360	700	Kmr
31-03-336	" #8	1967	282-332	362	717	"
31-03-368	R.C.A.	1959	-	221	-	"
31-03-389	Harold Collins	1953	253-283	283	500	"
31-03-427	Twp. of Maple Shade	1955	211-272	282	1020	"
31-03-427	"	1972	210-270	280	700	"
31-03-458	Interface Corp.	1956	146-156	156	159	"
31-03-465	Twp. of Moorestown	1963	248-288	302	805	"
31-03-466	Moorestown Water Co.	1963	248-288	290	1000	"
31-03-467	Savar Corp.	1955	155-166	166	120	"
31-03-482	Twp. of Maple Shade	1961	414-463	494	1001	"
31-03-483	"	1965	173-209	212	1034	"
31-03-483	"	1975	160-200	220	1007	"
31-03-483	"	1975	440-500	523	1438	"
31-03-489	Layne-New York Co., Inc.	1960	267-287	291	250	"
31-03-541	Town of Moorestown	1914	-	517	-	Wgn
31-03-589	Mt.Laurel Water Co.,#1	1961	558-589	594	548	Kmr
31-03-594	" #2	1965	362-399	399	750	"
31-03-671	Colonial Pipeline Co.	1963	-	188	150	"
31-03-676	Mt.Laurel Twp.M.U.A.,Test #2	1973	596-616	689	108	"
31-03-684	" " #1	1973	627-647	681	250	"
31-03-692	Merchantville-Pennsauken Water Comm.	1960	207-237	240	875	"
31-03-746	N. J. Water Co., #27	1963	366-417	541	812	"
31-03-762	" #28	1964	175-207	268	857	"
31-03-795	Arthur Champion	1960	-	299	-	"
31-03-816	Sea Jay Swim Club	1963	227-237	237	150	"
31-03-818	H.D.& H. Development Co.	1962	410-460	465	550	"
31-03-827	PSE&G Co.	1958	239-245	245	75	"
31-03-898	Evesham Twp.Utility Auth.#3	1967	288-334	341	608	"
31-03-938	Joseph Rudderow	1954	440-456	458	250	Kr
31-03-961	Cherry Valley Const.Co.	1961	-	274	-	"

J. Geodetic Control Survey monuments described in Index Map 49; adjacent Index Maps 44,45,48,54,55

SUBJECT TO REVISION

WATER WITHDRAWAL POINTS AND NJGS CASE INDEX SITES WITHIN 5.0 MILES OF:

LATITUDE 395915
LONGITUDE 750237

DRAFT

SCALE: 1:63,360
(1 Inch = 1 Mile)

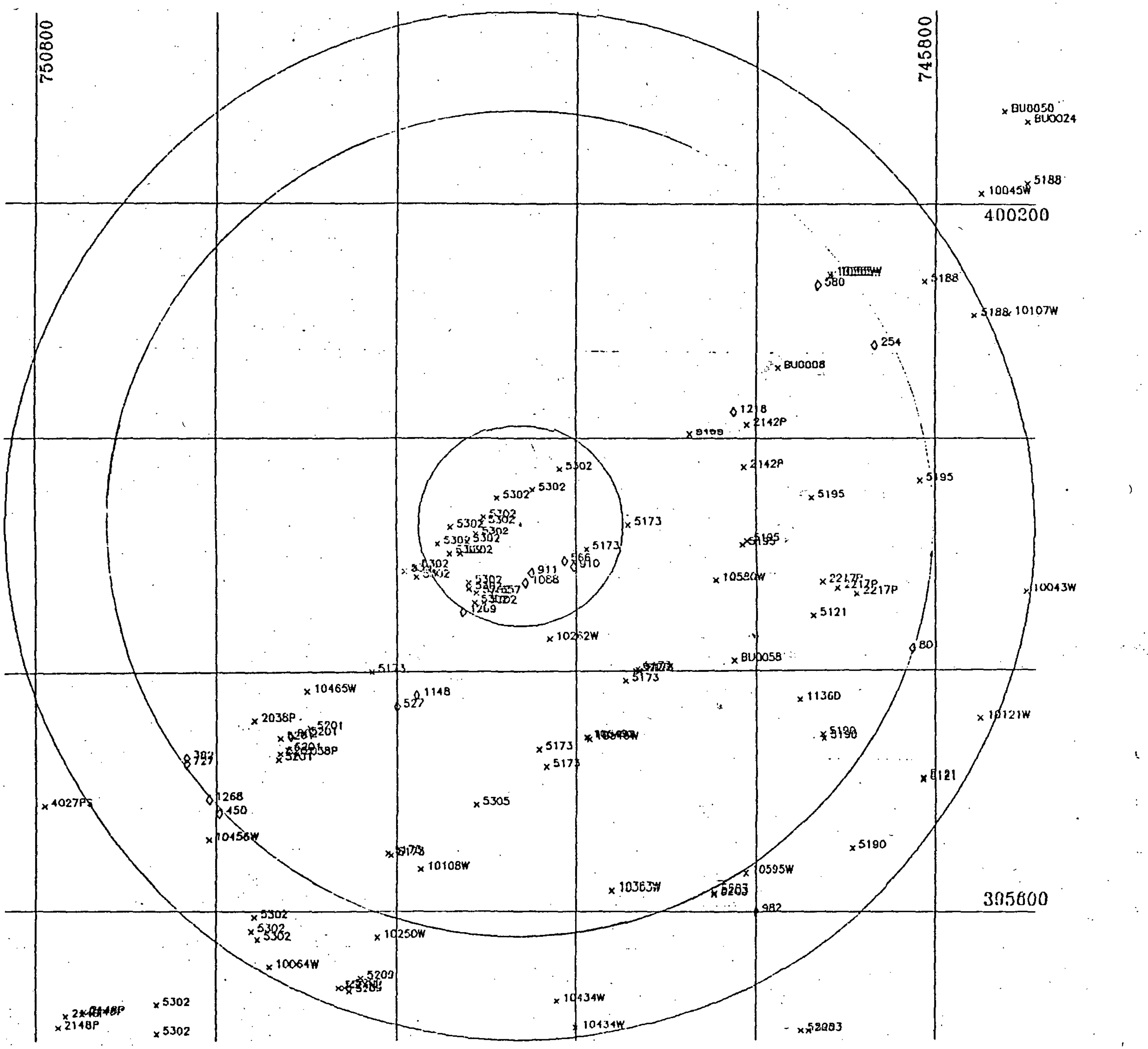
mile

× WATER WITHDRAWAL POINTS
◊ NJGS CASE INDEX SITES
1 MILE AND 5 MILE RADII INDICATED

NJGS CASE INDEX DATA RETRIEVED FROM:
NEW JERSEY GEOLOGICAL SURVEY
ON 12/22/87

PLOT PRODUCED BY:
NJDEP
DIVISION OF WATER RESOURCES
BUREAU OF WATER ALLOCATION
CN-029
TRENTON, NJ 08625

DATE: 04/17/91



SUBJECT TO REVISION

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
10043W	FIRST PRESBYTERIAN CHURCH	3104691	1	395840	745700	F	5.0	05	22		GMR		
10045W	RIVERSIDE BOARD OF EDUCATION	2704523	1	400205	745730	T	5.5	05	30		GMR		
10064W	OUR LADY OF LOURDES MED. CENT.	3104620	1	395532	750525	F	4.9	07	08	257	GMR		250
10107W	HOLY CROSS HIGH SCHOOL	2703821	1	400106	745712	F	5.2	05	10	174	GMR		400
10108W	CAMDEN CO VOC. & TECH. SCHOOLS	3105139	1	395620	750344	F	3.5	07	15	401	GMR		
10121W	CORDES, WILLIAM JR.		1	395735	745730	U	4.9	09	05	150	STOK		500
10250W	BISHOP EUSTACE PREP SCHOOL	3117884	1	395547	750413	T	4.2	07	27	150	GMR		200
10262W	SCHAEVITZ, LUCAS	3103338	1	395816	750215	T	1.2	07	27		GMR		
	SCHAEVITZ, LUCAS	3103437	2	395816	750218	T	1.2	07	27		GMR		
	SCHAEVITZ, LUCAS	3103444	3	395816	750219	T	1.2	07	27		GMR		
10333W	CHERRY HILL INN	UNKNOWN	1	395610	750136	T	3.6	07	16	179	GMR		400
10365W	HOEGANAES CORP./RIVERTON PLANT	2700228	LAYNE 1	400125	745908	T	3.9	05	08	136	GMR		300
	HOEGANAES CORP./RIVERTON PLANT	WELLPOINTS		400125	745910	U	3.9	05	08	13	GMR		66
10434W	GARDEN STATE RACE TRACK, INC.	5100094	1	395514	750213	T	4.6	07	09	154	GMR		300
	GARDEN STATE RACE TRACK, INC.	5100095	2	395500	750200	M	4.9	07	09	150	GMR		400
10456W	CONCORD CHEMICAL CO., INC.	5100154	1	395635	750605	F	4.3	07	08	140	GMW		400
10485W	ELK ASPHALT/WEST BANK OIL	DELAWARE	RIVER	395750	750600	F	2.6	07	27		SDDEL		
10549W	SYCAMORE RIDGE APARTMENTS	3127629	3	395725	750151	T	2.2	07	27		GMR		45
10580W	STAR GAS SERVICE	3129179	1	395846	750027		2.0	05	19		GMR		50
10595W	GENTILE, ALBERT JR/PRODUCE JNT	3130129		395618	750007	T	4.0	05	19				
1136D	MOORESTOWN TOWNSHIP	DEWATERING	DEWATERING	395745	745930	T	3.2	05	22	24	GCOM	GMW	127
2035P	GENERAL COLOR CO.	3119275	7	395735	750535		3.2	07	08	194	GMR		180
	GENERAL COLOR CO.	3105064	6	395719	750507		3.1	07	08	184	GMR		0
2142P	RIVERTON COUNTRY CLUB	3118428	1A	400008	750006	S	2.4	05	31	119	GMR		500
	RIVERTON COUNTRY CLUB	2704844	2	395945	750008	S	2.2	05	31	174	GMR		500
2148P	MAC ANDREWS & FORBES COMPANY	3100290	1	395507	750729	F	6.4	07	08	103	GMR		300
	MAC ANDREWS & FORBES COMPANY	5100035	2	395500	750745		6.6	07		99	GMR		350
	MAC ANDREWS & FORBES COMPANY	3123580	2R	395508	750728	F	6.4	07	08	140	GMR		350
	MAC ANDREWS & FORBES COMPANY	DELAWARE RIVER		395506	750740	U	6.5	07	08		SDDEL		
2217P	CAMPBELL SOUP COMPANY	3105715	1	395839	745822	T	3.4	05	22	272	GMR		500
	CAMPBELL SOUP COMPANY	3103673	2 RECHARGE	395845	745915	T	3.0	05	22	266	GMR		
	CAMPBELL SOUP COMPANY	3103674	1 DEC.	395842	745906	T	3.2	05	22	268	GMR		
4027PS	GENERAL ELECTRIC/BCSD	DELAWARE RIVER		395652	750754	T	5.4	07	08		SDDEL		
5121	MOORESTOWN TOWNSHIP	5100041	3	395705	745803	F	4.6	05	22	305	GMR		700
	MOORESTOWN TOWNSHIP	3104663	5	395704	745802	F	4.7	05	22	302	GMR		605
	MOORESTOWN TOWNSHIP	3104727	6	395704	745803	F	4.7	05	22	302	GMR		700
	MOORESTOWN TOWNSHIP	3105202	7	395628	745921	F	3.0	05	22	385	GMR		1000
5173	MERCHANTVILLE-PENNSAUKEN WATER	3105641	BROWNING1A	395627	750404		3.5	07	24	152	GMR		875
	MERCHANTVILLE-PENNSAUKEN WATER	3101417	DEL GARD 2	395800	750417		2.0	07	27	147	GMR		700
	MERCHANTVILLE-PENNSAUKEN WATER	3102915	MARION 1	395720	750225		2.2	07	27	279	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3104641	MARION 2	395711	750220		2.4	07	27	262	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3104536	BROWNING2A	395628	750406		3.4	07	27	140	GMR		900
	MERCHANTVILLE-PENNSAUKEN WATER	3105110	NATL HWY 1	395902	750153		0.7	07	27	231	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3100010	PARK AVE 1	395800	750117		1.8	07	27	274	GMR		1005
	MERCHANTVILLE-PENNSAUKEN WATER	5100064	PARK AVE 2	395800	750118		1.8	07	27	262	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3103334	PARK AVE 3	395801	750119		1.8	07	27	277	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3100011	PARK AVE 5	395800	750120		1.8	07	27	290	GMR		1005
	MERCHANTVILLE-PENNSAUKEN WATER	3114564	PARK AVE 6	395755	750127		1.8	07	27	270	GMR		1000
	MERCHANTVILLE-PENNSAUKEN WATER	3119207	NATL HWY 2	395915	750125		1.1	07	27	211	GMR		1000
5169	NEW JERSEY-AMERICAN WATER CO.	2703080	LEON 19	400122	745807		4.6	05	10	130	GMR		700
	NEW JERSEY-AMERICAN WATER CO.	2704851	TAYLOR 29	400210	745700		5.9	05	30	120	GMR		700
	NEW JERSEY-AMERICAN WATER CO.	2704247	CHESTER 23	400105	745734		4.9	05	10	168	GMR		1000
	NEW JERSEY-AMERICAN WATER CO.	2704880	CHESTER 24	400105	745734		4.9	05	10	150	GMR		1000
5190	MAPLE SHADE TOWNSHIP	3100060	2	395725	745914		3.6	05	19	126	GMR		140
	MAPLE SHADE TOWNSHIP	3105020	8	395727	745915		3.6	05	19	280	GMR		760

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLACC	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
	MAPLE SHADE TOWNSHIP	3108922	9	395630	745835		4.5	05	19	220	GWR		1000
	MAPLE SHADE TOWNSHIP	3108923	10	395630	745855		4.5	05	19	523	GWR		1500
	MAPLE SHADE TOWNSHIP	3112925	11	395727	745915		3.6	05	19	450	GWR		1250
5195	NEW JERSEY-AMERICAN WATER CO.	3104697	14NEWALBAN	395938	745810	F	3.9	05	08	229	GWR		1000
	NEW JERSEY-AMERICAN WATER CO.	3104733	29NEWALBAN	395938	745810	F	3.9	05	08	225	GWR		800
	NEW JERSEY-AMERICAN WATER CO.	3103835	10 POMONA	395929	745922	F	2.9	05	08	281	GWR		800
	NEW JERSEY-AMERICAN WATER CO.	3104276	12 POMONA	395929	745922	F	2.9	05	08	196	GWR		700
	NEW JERSEY-AMERICAN WATER CO.	3105321	28 STEPHEN	395904	750009	F	2.2	05	08	262	GWR		1000
	NEW JERSEY-AMERICAN WATER CO.	3106437	31 STEPHEN	395906	750006	F	2.2	05	08	270	GWR		1000
	NEW JERSEY-AMERICAN WATER CO.	3104576	13HIGHLAND	400002	750044	F	1.9	05	08	197	GWR		700
	NEW JERSEY-AMERICAN WATER CO.	3104864	27HIGHLAND	400002	750044	F	1.9	05	08	176	GWR		1000
5201	NEW JERSEY-AMERICAN WATER CO.	3103456	50	395726	750518	F	3.1	07	08	170	GWR		700
	NEW JERSEY-AMERICAN WATER CO.	3104790	51	395720	750513	F	3.2	07	08	192	GWR		1300
	NEW JERSEY-AMERICAN WATER CO.	3104847	52	395715	750519	F	3.3	07	08	198	GWR		1050
	NEW JERSEY-AMERICAN WATER CO.	3118947	53	395728	750502	F	2.9	07	08	194	GWR		1000
	NEW JERSEY-AMERICAN WATER CO.	3118944	54	395731	750458	F	2.9	07	08	195	GWR		1000
	NEW JERSEY-AMERICAN WATER CO.	3120270	55	395718	750516	F	3.2	07	08	176	GWR		1050
5203	NEW JERSEY-AMERICAN WATER CO.	3104051	COLUMBIA22	395609	750028		4.0	07	09	453	GWR		1050
	NEW JERSEY-AMERICAN WATER CO.	3104274	COLUMBIA24	395608	750028		4.0	07	09	167	GWR		900
	NEW JERSEY-AMERICAN WATER CO.	3105033	COLUMBIA31	395609	750028		4.0	07	09	427	GWR		1050
	NEW JERSEY-AMERICAN WATER CO.	5100007	KINGSTON25	395458	745929		5.6	07	09	367	GWR		1050
	NEW JERSEY-AMERICAN WATER CO.	3104669	KINGSTON27	395458	745924		5.7	07	09	417	GWR		870
	NEW JERSEY-AMERICAN WATER CO.	3104742	KINGSTON28	395458	745929		5.6	07	09	207	GWR		840
5209	COLLINGSWOOD BOROUGH	3104053	29	395519	750432		4.8	07	12	281	GWR		700
	COLLINGSWOOD BOROUGH	3104064	30	395522	750432		4.8	07	12	290	GWR		800
	COLLINGSWOOD BOROUGH	5100030	4	395521	750435		4.8	07	12	304	GWR		870
	COLLINGSWOOD BOROUGH	5100079	5	395521	750439		4.8	07	12	311	GWR		650
	COLLINGSWOOD BOROUGH	5100031	6	395526	750424		4.7	07	12	281	GWR		1000
	COLLINGSWOOD BOROUGH	3104799	7	395521	750439		4.8	07	12	312	GWR		1000
5302	CAMDEN CITY, WATER DIVISION	5100050	MORRIS 1	395944	750211		0.7	07	27	107	GWR		1600
	CAMDEN CITY, WATER DIVISION	3100945	MORRIS 3	395933	750229		0.4	07	27	107	GWR		1800
	CAMDEN CITY, WATER DIVISION	3104252	MORRIS 4	395929	750253		0.4	07	27	134	GWR		1600
	CAMDEN CITY, WATER DIVISION	5100051	MORRIS 6	395900	750318		0.7	07	27	139	GWR		1700
	CAMDEN CITY, WATER DIVISION	5100052	MORRIS 7	395916	750303		0.4	07	27	125	GWR		1680
	CAMDEN CITY, WATER DIVISION	3100944	MORRIS 8	395910	750307		0.4	07	27	128	GWR		1670
	CAMDEN CITY, WATER DIVISION	3104251	MORRIS 10	395919	750302		0.4	07	27	118	GWR		1400
	CAMDEN CITY, WATER DIVISION	5100076	MORRIS 9	395906	750313		0.6	07	27	148	GWR		1670
	CAMDEN CITY, WATER DIVISION	3116814	MORRIS 12	395914	750324		0.7	07	27	122	GWR		2020
	CAMDEN CITY, WATER DIVISION	3115745	MORRIS 11	395900	750325		0.8	07	27	149	GWR		2030
	CAMDEN CITY, WATER DIVISION	3116813	MORRIS 13	395905	750333		0.8	07	27	135	GWR		2060
	CAMDEN CITY, WATER DIVISION	5100053	DELAIR 1	395848	750347		1.1	07	27	141	GWR		1680
	CAMDEN CITY, WATER DIVISION	5100054	DELAIR 2	395851	750355		1.2	07	27	146	GWR		1830
	CAMDEN CITY, WATER DIVISION	5100055	DELAIR 3	395853	750348		1.1	07	27	135	GWR		1830
	CAMDEN CITY, WATER DIVISION	5100056	RUCHACK 1	395845	750312		0.8	07	27	141	GWR		1500
	CAMDEN CITY, WATER DIVISION	5100057	RUCHACK 2	395842	750312		0.8	07	27	169	GWR		1000
	CAMDEN CITY, WATER DIVISION	5100058	RUCHACK 3	395840	750307		0.8	07	27	176	GWR		1280
	CAMDEN CITY, WATER DIVISION	5100059	RUCHACK 5	395835	750308		0.9	07	27	186	GWR		1324
	CAMDEN CITY, WATER DIVISION	3102526A	RUCHACK 7	395835	750302		0.8	07	27	180	GWR		2260
	CAMDEN CITY, WATER DIVISION	5100060	CITY 7	395457	750640		6.1	07	08	163	GWR		1500
	CAMDEN CITY, WATER DIVISION	5100061	CITY 11	395512	750640		5.8	07	08	159	GWR		1010
	CAMDEN CITY, WATER DIVISION	3100904	CITY 13	395557	750635		4.6	07	08	230	GWR		1200
	CAMDEN CITY, WATER DIVISION	3101250	CITY 17	395546	750533		4.8	07	08	270	GWR		1500
	CAMDEN CITY, WATER DIVISION	3105574	CITY 16	395550	750537		4.7	07	08	290	GWR		1200
	CAMDEN CITY, WATER DIVISION	3104649	CITY 5	395457	750640		6.1	07	08	171	GWR		1100
5305	MERCHANTVILLE-PENNSAUKEN	3104642	WOODBINE 1	395652	750307		2.8	07	24	258	GWR		1000
	MERCHANTVILLE-PENNSAUKEN	3114563	WOODBINE 2	395652	750307		2.8	07	24	227	GWR		1000

NUMBER	NAME	SOURCEID	LOCID	LAT	LON	LLASS	DISTANCE	COUNTY	MUN	DEPTH	GEO1	GEO2	CAPACITY
BU0008	HUNTER, JOHN	POND 1	POND 1	400033	745945	F	3.0	05	08	12	SDDEL		600
BU0024	RUSS BROTHERS	RANDOCAS CREEK	STREAM 1	400240	745660	T	6.3	05	09		SDRAN		
BU0050	VARGACI, F & M	RANDOCAS CREEK	STREAM 1	400245	745715	F	6.2	05	12		SDRAN		
BU0058	FARM SOLD	STREAM 1	STREAM 1	395805	750015	F	2.5	05	24		SDRAN		
	FARM SOLD	POND 1	POND 1	395808	750015	F	2.5	05	24	15	GHET		

Number of Observations: 116

ATTACHMENT A

02-8901-16-PA
REV. NO. 0

FINAL DRAFT
PRELIMINARY ASSESSMENT
ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

PREPARED UNDER

TECHNICAL DIRECTIVE DOCUMENT NO. 02-8901-16
CONTRACT NO. 68-01-7346

FOR THE

ENVIRONMENTAL SERVICES DIVISION
U.S. ENVIRONMENTAL PROTECTION AGENCY

MARCH 29, 1989

NUS CORPORATION
SUPERFUND DIVISION

SUBMITTED BY:

CHARLES LOBUE
PROJECT MANAGER

THOMAS VARNER
SITE MANAGER

REVIEWED/APPROVED BY:

RONALD M. NAMAN
FIT OFFICE MANAGER

PART IV: SITE SUMMARY AND RECOMMENDATIONS

Aluminum Shapes, Inc. consists of an active, privately owned aluminum extrusion plant and foundry, situated on approximately 20 acres in Delair, Camden County, New Jersey. The site is located in an industrial/residential area near Pennsauken Creek and the Delaware River, and has been in operation since 1957. Approximately 114,000 people live within 3 miles of the site.

Aluminum ingots and scraps are melted in the foundry and formed to produce frames, doors, windows, and other items. Some products are etched and painted before shipping. Hazardous waste is produced during etching and from the cleaning of paint lines and paint spray booths. The paint sludge produced is drummed and disposed of off site; etching waste (containing hexavalent chromium) is pumped to the facility's wastewater treatment plant. Chromium-contaminated sludge produced in the treatment plant is dewatered, drummed, and disposed of off site; the treated water is discharged to the Pennsauken Sewerage Authority under the New Jersey Pollutant Discharge Elimination System (NJPDES), permit No. NJ0034576. Permit limits were exceeded on at least three different occasions in 1987 and 1988 for various parameters, including chromium, aluminum, zinc, oil, and grease.

A percolation field was used by Aluminum Shapes, Inc. for an unknown period of time prior to November 18, 1980. This surface impoundment may have received paint line process waste and allowed the liquid to discharge to the water table. Chromium and petroleum hydrocarbons were found at notable levels in soil collected from the former percolation field. However, there is little chance for direct contact since site access is controlled by a fence and a guard house. Sampling of on-site monitoring wells in 1986 and 1987 revealed the presence of several volatile organic compounds in groundwater, including benzene, chlorobenzene, ethylbenzene, toluene, and trans-1,2-dichloroethene. Groundwater samples collected in 1988 revealed the presence of aluminum, chromium, and several other metals.

Other waste units present at the site include an oil removal sump, used in the contact cooling water recycling system, and a drum storage area where conversion coating sludge was properly stored and periodically removed. Miscellaneous areas of concern include the former transformer storage area, where stained soil was noted in 1986, and a waste oil spill area, where stained soil was noted in 1988. Aluminum Shapes, Inc. was ordered by the NJDEP/Division of Water Resources on February 26, 1987 to containerize contaminated soil in the former transformer storage area and in the hydraulic fluid tank area. The Division of Water Resources also ordered Aluminum Shapes, Inc. to take corrective action concerning the waste oil spill area. Results of these orders are unknown.

ATTACHMENT B

RCRA TREATMENT, STORAGE AND DISPOSAL FACILITY INSPECTION FORM
FOR TSD FACILITIES ONLY

COMPANY NAME: ALUMINUM SHAPES INC. EPA I.D. Number: NJD002338267

COMPANY ADDRESS: 900 RIVER RD. DELAIR, N.J. 08110

COMPANY CONTACT OR OFFICIAL: JOHN COLLINS

OTHER ENVIRONMENTAL PERMITS HELD BY FACILITY: [ ] NPDES [ ] AIR [ ] OTHER

TITLE: VICE PRESIDENT OF MANUFACTURING

INSPECTOR'S NAME: WAYNE HOWITZ

DATE OF INSPECTION: 11/30/81.

BRANCH/ORGANIZATION: N.J.D.E.P. BUREAU OF HAZARDOUS WASTE.

TIME OF DAY INSPECTION TOOK PLACE: 10:00 A.M - 2:00 PM.

(1) Is there reason to believe that the facility has hazardous waste on site?

a. If yes, what leads you to believe it is hazardous waste? Check appropriate box:

[✓] Company admits that its waste is hazardous during the inspection.

[✓] Company admitted the waste is hazardous in its RCRA notification and/or Part A Permit Application.

[✓] The waste material is listed in the regulations as a hazardous waste from a nonspecific source (§261.31)

[ ] The waste material is listed in the regulations as a hazardous waste from a specific source (§261.32)

[✓] The material or product is listed in the regulations as a discarded commercial chemical product (§261.33)

[ ] EPA testing has shown characteristics of ignitability, corrosivity, reactivity or extraction procedure toxicity, or has revealed hazardous constituents (please attach analysis report)

[ ] Company is unsure but there is reason to believe that waste materials are hazardous. (Explain)

	YES	NO	DON'T KNOW
b. Is there reason to believe that there are hazardous wastes on-site which the company claims are merely products or raw materials?		✓	

Please explain:

c. Identify the hazardous wastes that are on-site, and estimate approximate quantities of each.
26-55 gallon drums of TRIVALENT FILTER CAKE
32-55 gallon drums of PAINT (TOLUENE BAISED) WASTE.
24-55 gallon drums of WASTE WASH WATER

	YES	NO	DON'T KNOW
(2) Does the facility generate hazardous waste?	✓		
(3) Does the facility transport hazardous waste?		✓	
(4) Does the facility treat, store or dispose of hazardous waste?	✓		

ATTACHMENT B-1

VISUAL OBSERVATIONS

	YES	NO	DON'T KNOW
(5) SITE SECURITY (§265.14)			
a. Is there a 24-hour surveillance system?	✓		
b. Is there a suitable barrier which completely surrounds the active portion of the facility?	✓		
c. Are there "Danger-Unauthorized Personnel Keep Out" signs posted at each entrance to the facility?	✓		
(6) Are there ignitable, reactive or incompatible wastes on site? (§265.27)	✓		
a. If "YES", what are the approximate quantities? 32-55 gallon drums of Toluene based paint waste.			
b. If "YES", have precautions been taken to prevent accidential ignition or reaction of ignitable or reactive waste?	✓		
c. If "YES", explain Waste is segregated.			
d. In your opinion, are proper precautions taken so that these wastes do not:			
- generate extreme heat or pressure, fire or explosion, or violent reaction?	✓		
- produce uncontrolled toxic mists, fumes, dusts, or gases in sufficent quantities to threaten human health?	✓		
- produce uncontrolled flammable fumes or gases in sufficient quantities to pose a risk of fire or explosions?	✓		
- damage the structural integrity of the device or facility containing the waste?	✓		
- threaten human health or the environment?	✓		

Please explain your answers, and comment if necessary.

e. Are there any additional precautions which you would recommend to improve hazardous waste handling procedures at the facility?
Yes date & label drums with accumulation date and identify wastes in drums

(7) Does the facility comply with preparedness and prevention requirements including maintaining: (§265.32) yes.

ATTACHMENT _____

	YES	NO	DON'T KNOW
- an internal communications or alarm system?	X		
- a telephone or other device to summon emergency assistance from local authorities?	X		
- portable fire equipment?	X		
- adequate aisle space?	X		
- in your opinion, do the types of wastes on site require all of the above procedures, or are some not needed? Explain.	X		

In your opinion, do the types of wastes on site require all of the above procedures, or are some not needed? Explain.
All are required.

*(8) Have you inspected to verify that the groundwater monitoring wells (if any) mentioned in the facility's groundwater monitoring plan (see no. 19 below) are properly installed?	N/A		
If you have, please comment, as appropriate.			
(9) a. Is there any reason to believe that groundwater contamination already exists from this facility? If "YES", explain. Aluminum Shapes operated a surface impoundment, prior to Nov. 19, 1980, it is possible there may exist a ground water problem.	X		
b. Do you believe that operation of this facility may affect groundwater quality? Not with the present waste water treatment system.			
c. If "YES", explain.			

RECORDS INSPECTION

(10) Has the facility received hazardous waste from an off-site source since Nov. 19, 1980 (effective date of the regulations)?		N/A	
a. If "YES", does it appear that the facility has a copy of a manifest for each hazardous waste load received?			
b. How many post-November 19 manifests does it have? (If the number is large, you may estimate)			
c. Does each manifest (or a representative sample) have the following information?			
- a manifest document number			

* This requirement applies only after November 19, 1981.

ATTACHMENT

	YES	NO	DON'T KNOW
- the generator's name, mailing address, telephone number, and EPA identification number	___	___	___
- the name, and EPA identification number of each transporter	___	___	___
- the name, address and EPA identification number of the designated facility and an alternate facility, if any;	___	___	___
- a DOT description of the wastes	___	___	___
- the total quantity of each hazardous waste by units of weight or volume, and the type and number of containers as loaded into or onto the transport vehicle	___	___	___
- a certification that the materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation under regulations of the Department of Transportation and the EPA	___	___	___
d. Are there any indications that unmanifested hazardous wastes have been received since November 19, 1980? If YES, explain.	___	___	___
(11) Does the facility have a written waste analysis plan specifying test methods, sampling methods and sampling frequency? (§265.13)	✓	___	___
a. Does the character of wastes handled at the facility change from day to day, week to week, etc., thus requiring frequent testing? (You may check more than one) Waste characteristics vary ___ All wastes are basically the same ✓ Company treats all waste as hazardous ___ Don't Know ___			
b. Does hazardous waste come to this facility from off-site sources?	___	✓	___
c. If waste comes from an off-site source, are there procedures in the plan to insure that wastes received conform to the accompanying manifest?	N/A		___
(12) INSPECTIONS (§265.15)			
a. Does the facility have a written inspection schedule?	___	✓	___
b. Does the schedule identify the types of problems to be looked for and the frequency for inspections?	___	✓	___
c. Does the owner/operator record inspections in a log?	___	✓	___
d. Is there evidence that problems reported in the inspection log have not been remedied? If "YES," please explain.	___	✓	___

ATTACHMENT ___

	YES	NO	DON'T KNOW
(13) PERSONNEL TRAINING (§265.16)			
a. Is there written documentation of the following:			
- job title for each position at the facility related to hazardous waste management and the name of the employee filling each job?		✓	
- type and amount of training to be given to personnel in jobs related to hazardous waste management?		✓	
- actual training or experience received by personnel?		✓	
(14) Does the facility have a written contingency plan for emergency procedures designed to deal with fires, explosion or any unplanned release of hazardous waste? (§265.51)		✓	
a. Does the plan describe arrangements made with local authorities?		✓	
b. Has the contingency plan been submitted to local authorities?		✓	
How do you know?			
c. Does the plan list names, addresses, and phone numbers of Emergency Coordinators?		✓	
d. Does the plan have a list of what emergency equipment is available?		✓	
e. Is there a provision for evacuating facility personnel?		✓	
f. Was an Emergency Coordinator present or on call at the time of the inspection?			✓
(15) Does the owner/operator keep a written operating record with: (§265.73)			
- a description of wastes received with methods and dates of treatment, storage or disposal?	N/A		
- location and quantity of each waste?	N/A		
- detailed records and results of waste analysis and treatability tests performed on wastes coming into the facility?		N/A	
- detailed operating summary reports and description of all emergency incidents that required the implementation of the facility contingency plan?	N/A		
*(16) Does the facility have written closure and post-closure plans? (§265.110)		✓	
a. Does the written closure plan include:			
- a description of how and when the facility will be partially (if applicable) and ultimately closed?		✓	

* Effective date for this requirement is May 19, 1981.

ATTACHMENT

	YES	NO	DON'T KNOW
- an estimate of the maximum inventory of wastes in storage or treatment at any time during the life of the facility?		X	
- a description of the steps necessary to decontaminate facility equipment during closure?		X	
- a schedule for final closure including the anticipated date when wastes will no longer be received and when final closure will be completed?		X	
b. What is the anticipated date for final closure?			X
†c. Does the owner/operator have a written post-closure plan identifying the activities which will be carried on after closure and the frequency of these activities?		N/A	
d. Does the written post-closure plan include:			
- a description of planned groundwater monitoring activities and their frequencies during post-closure?		X	
- a description of planned maintenance activities and frequencies to ensure integrity of final cover during post-closure?		X	
- the name, address and phone number of a person or office to contact during post-closure?		X	
*(17) Does the owner/operator have a written estimate of the cost of closing the facility? (§265.142) What is it?		X	
*(18) Does the owner/operator have a written estimate of the cost for post-closure monitoring and maintenance? What is it? (§265.144)		X	
*(19) Has a groundwater monitoring plan been submitted to the Regional Administrator for facilities containing a surface impoundment, landfill or land treatment process? (This requirement does not apply to recycling facilities.) (§265.90)		N/A	
a. Does the plan indicate that at least one monitoring well has been installed hydraulically upgradient from the limit of the waste mangement area?		N/A	
b. Does the plan indicate that there are at least three monitoring wells installed hydraulically downgradient at the limit of the waste management area?		N/A	

† This section applies only to disposal facilities.

* Effective date for this requirement is May 19, 1981.

ATTACHMENT

SITE-SPECIFIC

Please circle all appropriate activities and answer questions on indicated pages for all activities circled. When you submit your report, include only those site-specific pages that you have used.

STORAGE	TREATMENT	DISPOSAL
Waste Pile p. 9	Tank p. 8	Landfill pp. 10-11
Surface Impoundment p. 8	Surface Impoundment pp. 8-9	Land Treatment pp. 9, 10
Container p. 7	Incineration pp. 12-13	Surface Impoundment p. 8
Tank, above ground p. 8	Thermal Treatment pp. 12-13	Other _____
Tank, below ground p. 8	Land Treatment pp. 9-10	
Other _____	Chemical Physical p. 13 and Biological Treatment (other than in tanks, surface impoundment or land treatment facilities)	
	Other _____	

CONTAINERS (§265.170)

	YES	NO	DON'T KNOW
1. Are there any leaking containers? If "YES", explain.		X	
2. Are there any containers which appear in danger of leaking? If "YES", explain.		X	
3. Do wastes appear compatible with container materials?	X		
4. Are all containers closed except those in use?	X		
5. Do containers appear to be opened, handled or stored in a manner which may rupture the containers or cause them to leak?		X	
6. How often does the plant manager claim to inspect container storage areas? Every day			
7. Does it appear that incompatible wastes are being stored in close proximity to one another? If "YES", explain.		X	
8. Are containers holding ignitable or reactive wastes located at least 15 meters (50 feet) from the facility's property line?	X		
9. What is the approximate number and size of containers with hazardous wastes?			

ATTACHMENT

TANKS (§265.190)	YES	NO	DON'T KNOW
1. Are there any leaking tanks? If "YES", explain.		X	
2. Are there any tanks which appear in danger of leaking. If "YES", explain.		X	
3. Are wastes or treatment reagents being placed in tanks which could cause them to rupture, leak, corrode or otherwise fail? If "YES", explain.		X	
4. Do uncovered tanks have at least 2 feet of freeboard or an adequate containment structure?	X		
5. Where hazardous waste is continuously fed into a tank, is the tank equipped with a means to stop this inflow?	X		
6. Does it appear that incompatible wastes are being stored in close proximity to one another, or in the same tank? If "YES", explain.		X	
7. How often does the plant manager claim to inspect container storage areas?			
8. Are ignitable or reactive wastes stored in a manner which protects them from a source of ignition or reaction? If "YES", explain.	N/A		
9. What is the approximate number and size of tanks containing hazardous wastes?			

SURFACE IMPOUNDMENTS (§265.220)			
1. Is there at least 2 feet of freeboard in the impoundment?			
2. Do all earthen dikes have a protective cover to preserve their structural integrity? If "YES", specify type of covering.			
3. Is there reason to believe that incompatible wastes are being placed in the same surface impoundment? If "YES", explain.			

ATTACHMENT

a. If "YES", what is being burned? (only burning or detonation of explosives is permitted)

b. If open burning or detonation of explosives is taking place, approximately what is the distance from the open burning or detonation to the property of others?

	YES	NO	DON'T KNOW
6. Does the incinerator appear to be operating properly? (Do emergency shutdown controls and system alarms seem to be in good working order?) Please explain.			
a. Is there any evidence of fugitive emissions?			
7. Is the residue from the incinerator treated by the owner as a hazardous waste? Please explain.			
8. What types of air pollution control devices (if any) are installed on the incinerator?			

CHEMICAL, PHYSICAL AND BIOLOGICAL TREATMENT (§265.400)

	YES	NO	DON'T KNOW
1. Does the treatment process system show any signs of ruptures, leaks, or corrosion? Please explain.		✗	
2. Is there a means to stop the inflow of continuously-fed hazardous wastes?	✗		
3. Is there ignitable or reactive waste fed into the treatment system?	N/A		
If "YES", has it been treated or protected from any material or conditions which may cause it to ignite or react? If so, explain how.	✗		
Are the incompatible wastes placed in the same treatment process? If "YES", explain.		✗	

5. Describe the treatment system at this facility.

PROCEDURE ATTACHED.

ATTACHMENT ____

ATTACHMENT C

Aluminum shapes INC
9000 River Road, P.O. Box 397
Delair, NJ 08110 • (609) 662-5500 • Telex (ALUMSHAPE DLAR) TLX83-1636

July 29, 1982

General Enforcement Branch
United States Environmental Protection Agency
Region 11
26 Federal Plaza
New York, New York 10278

Attention: Katherine Buttolph, Esq.

Re: NJ D002338267

Dear Madam:

On May 12, 1982, we were informed by Mr. Michael Bonchonsky, Acting Director of the Enforcement Division, that Aluminum Shapes, Inc. was in violation of 40 CFR Part 265. He gave us 60 days to reply to your office.

His letter was initiated by:

1. Our original statement to EPA in which we defined ourselves as a Treatment, Storage and Disposal facility as well as a Generator of Hazardous Wastes.

2. An inspection conducted by a representative of EPA in November 1981.

We are now of the opinion that we are no longer, in fact, never were, a TSD facility. We are a Generator of Hazardous Wastes only. Therefore, we are not subject to the regulations of 40 CFR 265.

We originally considered ourselves as a TSD facility for two reasons:

1. We intended to store spent toluene (U220) under the rationality that bulk quantities of that material would have market value, whereas small quantities that would accumulate in 90 days would be a cost to haul away.

C-1

ATTACHMENT

In actual fact we have never accumulated spent toluene. Most of it was contaminated beyond commercial use and could not be separated from our normal paint residue (F 017). The balance is being used in a new paint application which allows us to mix paint residue and spent solvent to formulate a special coating. This product is used on aluminum pool parts that are buried in the ground where consistency of color is no criteria for satisfactory performance.

So we do not store spent toluene.

2. We considered ourselves a Treatment facility because we neutralized the acidous waste water coming from our chemical conversion coating system.

However, a close reading of 265.1 (C-10) states that "The requirements of this part (265.1) do not apply to the owner or operator of an elementary neutralization unit or a waste treatment unit as defined in 260.10 of this chapter." The definition of "elementary neutralization unit" match up to our process.

Therefore, we conclude we are not a Treatment facility as defined by EPA and were in error to have applied as such.

We are notifying Mr. Richard Baker, Chief of EPA Permits Administration Branch, to request Aluminum Shapes removal as a TSD facility and to be considered strictly as a Generator of Hazardous Wastes.

We expect this letter will fill our obligation to your office.

Best wishes,

ALUMINUM SHAPES, INC.

John F. Collins

John F. Collins
Vice President Mfg.

JFC/so

ATTACHMENT 2

ATTACHMENT D

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT
32 E. Hanover St., CN 027, Trenton, N.J. 08625

JACK STANTON
DIRECTOR

LINO F. PEREIRA
DEPUTY DIRECTOR

25 MAY 1983

Mr. John F. Collins
Aluminum Shapes, Inc.
9000 River Road
PO Box 397
Delair, New Jersey 08110

RE: Hazardous Waste TSD Facility Classification and Permitting Requirements for Aluminum Shapes, Inc., EPA ID NO. NJD003338267

Dear Mr. Collins:

The Bureau of Hazardous Waste Engineering (the Bureau) acknowledges receipt of the copy of your letter, addressed to Dr. Richard Baker of the USEPA, dated July 1, 1982 in which you requested reclassification to "generator only" status with both the EPA and the DEP.

The RCRA Part A application on record with the USEPA lists a hazardous waste tank storage activity (S02) of 18,000 gallons and a hazardous waste treatment activity (T01) of 7,000 gallons per day.

The Bureau has reviewed the information provided in your letter, and has granted the requested S02 exclusion because your facility has never accumulated spent toluene in tanks. With regard to the T01 activity, the regulation of tank elementary neutralization is excluded from RCRA, but is not excluded from the NJDEP hazardous waste management regulations, under which it constitutes an Industrial Waste Management Facility subject to permitting under the NJPDES regulations of the Department's Division of Water Resources. Therefore, this Bureau has forwarded your correspondence regarding this tank treatment activity to the Division of Water Resources for their review and response. The Division of Water Resources will respond directly to your company on whether or not this treatment is eligible for delisting from hazardous waste facility status under Departmental regulations.

If you have any further questions on these matters, please contact Mr. Bob Patel of my staff at (609) 292-9880.

Very truly yours,

Frank Coolick

Frank Coolick, Chief
Bureau of Hazardous Waste Engineering

FC:BP:jb

c: Ken Goldstein, NJDEP-DWR
Joel Golumbek, USEPA, Region II

New Jersey Is An Equal Opportunity Employer

D-1

ATTACHMENT E

7-19

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample Number:

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Parts Cleaner Pit

Sampling Site/Facility/Supply/Location: Aluminum Shapes, Inc

Stream: NA

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 7/18/89

Collection Time (Military): 10:30

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☒ Industrial ☒ Raw ☐ Effluent
- ☐ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Field Sample Number: 45885

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency: Department of Environmental Protection, Division of Water Resources, Southern Bureau of Enforcement

Sample Collector: Nick Sodano / Cheryl Babarsik

Street Address: 20 East Clementon Road, 3rd Floor

DEP Agency No.: 224

DEP Project Code: P2J4

City, State, Zip Code: Gibbsboro, New Jersey 08026

Comments: Run TSS first. If results less than 0.5% total solids, then enter metals sample and run it for tox metals. If greater than 0.5% solids, run EP tox sample using EP tox procedure.

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)	~3-4	Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Bact. Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Fecal Streptococci (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Tot. Coli (MF)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☒ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL)
- ☒ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☐ Cr-H (MACRH)
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☐ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Tl (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (V0602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☒ EP tox.
- ☐ see instructions above
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

*Also Analysis

REPORT SUBMITTED

AUG 25 1989

NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

CHEM-44 Distribution. White-Submitting Agency Pink-Bacteriology Lab

P8912

7-19

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Laboratory Sample Number: 45885

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum	405,500		
Antimony	12 S		
Arsenic	31 S		
Barium			
Beryllium	10		
Cadmium	5		
Calcium			
Chromium, Hexavalent			
Chromium, Total	648,000		
Cobalt			
Copper	263		
Iron			
Lead	5 K		
Magnesium			
Manganese			
Mercury	0.2 K		
Nickel	107		
Potassium			
Selenium	3 K J		
Silver	3		
Sodium			
Thallium	3 K J		
Titanium			
Tin			
Zinc	383		

S = Method of STANDARD ADDITIONS

REPORT SUBMITTED

Supervisor (Print)	Signature	Date AUG 25 1989

CHEM-14
MAY 86

DISTRIBUTION: White - Sub Agency; Canary - Cont. File; Pink - Metals Lab

NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY 8221

ATTACHMENT E-2

(F) 8/17/89 4 pp.

7-19

New Jersey State Depar nt of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample Nu.

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Parts Cleaner Pit

Sampling Site/Facility/Supply/Location: Aluminum Shapes, Inc

Stream: NA

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 7/18/89

Collection Time (Military): 10:30

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☒ Industrial ☒ Raw ☐ Effluent
- ☐ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Field Sample Number: 45885

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency: Department of Environmental Protection, Division of Water Resources, Southern Bureau of Enforcement

Sample Collector: Nick Sodano / Cheryl Babarsik

Street Address: 20 East Clementon Road, 3rd Floor

City, State, Zip Code: Gibbsboro, New Jersey 08026

DEP Agency No.: 224

DEP Project Code: P2J4

Comments: Run TSS first. If results less than 0.5% total solids, then filter metals sample and run it for Tox metals. If greater than 0.5% solids, run EP tox sample using EP tox procedure.

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)	~3-4	Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Bact. Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Tot. Coli (MF)
- ☐ Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☒ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL)
- ☒ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☐ Cr-H (MACRH)
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☐ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Tl (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☒ EP Tox.
- ☐ see instructions above
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

REPORT SUBMITTED

AUG 25 1989

NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

*ASO Analysis

CHEM-44

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

ATTACHMENT E-2

P8912

7-19

NE JERSEY STATE DEPARTMENT OF HEAL
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Laboratory Sample Number: 45885

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum	405,500		
Antimony	12 S		
Arsenic	31 S		
Barium			
Beryllium	10		
Cadmium	5		
Calcium			
Chromium, Hexavalent			
Chromium, Total	648,000		
Cobalt			
Copper	263		
Iron			
Lead	5 K		
Magnesium			
Manganese			
Mercury	0.2 K		
Nickel	107		
Potassium			
Selenium	3 K J		
Silver	3		
Sodium			
Thallium	3 K J		
Titanium			
Tin			
Zinc	383		

S = Method of STANDARD ADDITIONS

REPORT SUBMITTED

Supervisor (Print)	Signature	Date AUG 25 1989

CHEM-14
MAY 86

DISTRIBUTION: White - Sub Agency
Canary - Cont. File
Pink - Metals Lab

NJDOH ENVIRONMENTAL
CHEMISTRY LABORATORY 8221

ATTACHMENT E-9

7-19

New Jersey State Department of Health
Public Health and Environmental Laboratories

AQUEOUS GENERAL CHEMISTRY RESULTS

Lab. Sample No. 45885

Analysis (1)	Sample Result	Method Blank	MDL
Nitrite Nitrogen (P00615)			0.003
Nitrite & Nitrate Nitrogen (P00630)			0.05
Ammonia Nitrogen (P00610)			0.05
Total Kjeldahl Nitrogen (P00625)			0.05
Ortho Phosphorus (P70507)			0.01
Total Phosphorus (P00665)			0.02
Non-Filterable Residue (P00530)	42		2
Total Residue (P00500)			2
Filterable Residue (P70300)			2
Non-Filterable Volatile Residue (P00535)			2
Total Volatile Residue (P00505)			2
Filterable Volatile Residue (P00520)			2
Settleable Matter in ml/l/hr (P50086)			0.2
COD - std (P00340)			50
COD - Low (P00335)			5
COD - High Chloride (P00340)			250
TOC (P00680)			0.1

Analysis (1)	Sample Result	Dilutions				MDL
BOD_5 (P00310)		% Conc.				
		+/-				
$CBOD_5$		% Conc.				
		+/-				
BOD_{20}		% Conc.				
		+/-				
CBOD20		% Conc.				
		+/-				

Analysis (1)	Sample Result	Method Blank	MDL
Color in Platinum - Cobalt Units (P00080)			5
Odor			1
Turbidity in NTU (P00067)			0.1
pH in pH Units (P00403)			—
Alkalinity (P00410)			1
Acidity (P00436)			1
Chloride (P00940)			0.5
MBAS (P38260)			0.1
Phenols (SSI) (P32730)			0.05
Phenols (pw) (P32730)			0.005
Hardness (P00900)			2
Sulfate (P00945)			1
Oil & Grease (P00556)			5
Petroleum Hydrocarbons (P45510)			1
Cyanide (P00720)			0.001
Conductance in umhos (P00095)			0.1
Dissolved Oxygen (P00300)			0.2
Fluoride (P00951)			0.1
Fluoride with distillation (P00951)			0.1
Silica (P00955)			2
Sulfide (P00745)			1

NOTE: Sample results, method blank results and MDL's are expressed in parts per million (mg/l) unless otherwise specified.

REPORT SUBMITTED
AUG 25 1989
NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

Name of Supervisor - Print	Signature	Date

CHEM-45

DISTRIBUTION: WHITE - Submitting Agency; CANARY - Chemistry - Central File

ATTACHMENT E-5

*G0431

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample No.

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Arts Cleaning Unit Pit

Sampling Site/Facility/Supply/Location: Aluminum Shapes

Stream: N/A

Municipality: Pennsauken Twp

County: Camden Co

Collection Date (MM/DD/YY): 11/30/89

Collection Time (Military): 09:00

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☒ Industrial ☒ Raw ☐ Effluent
- ☐ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Field Sample Number: 25546

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☒ Yes ☐ No

AGENCY INFORMATION

Submitting Agency: NJDEP; DWR; SBRE

Sample Collector: Nick Sodano

Street Address: Suite 301 S, 20 E. Clementon Rd

DEP Agency No.: 224

DEP Project Code: IQD

City, State, Zip Code: Gibbsboro, NJ 08026

Comments: May Contain Chromic Acid
" " Phosphoric "
" " HydroFluoric "

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)	~2-3	Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Act. Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Fecal Streptococci (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Tot. Coli (MF)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS
- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS
- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES
- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL
- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS
- ☐ Ag (MAAG)
- ☐ Al (MAAL)
- ☐ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☒ Cr-H (MACRH)
- ☐ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☐ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Tl (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS
- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER
- ☐ Cr H
- ☐ PRIORITY TURNAROUND
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐
- ☐

*A280 Analysis

CHEM-44
EB-87

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

ATTACHMENT E-6

P8912

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

1-21
Parts Cleaning Pit

METAL ANALYSIS RESULTS

Laboratory Sample Number: 25546

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum			
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium, Hexavalent PRIORITY TURNAROUND	350,000		
Chromium, Total			
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury			
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Titanium			
Tin			
Zinc			

Supervisor (Print)	Signature	Date

CHEM-14
MAY 86

DISTRIBUTION:
White - Sub Agency
Canary - Cont. File
Pink - Metals Lab

ATTACHMENT E-7

P8221

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample No. 6

☐ Routine (9) ☒ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Please avoid long delay due to waiting for "batch"

Sampling Point/Station Identification Number: Arts Cleaner pit

Sampling Site/Facility/Supply/Location: Aluminum Shapes

Team: N/A

Municipality: Pennsauken Twp

County: Camden

Collection Date (MM/DD/YY): 11/30/89

Collection Time (Military): 09:00

Field Sample Number: 25547

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☒ Industrial ☒ Raw ☐ Effluent
- ☐ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☒ Yes ☐ No

AGENCY INFORMATION

Submitting Agency: NJDEP, So. B. Region Enforce.

Sample Collector: Nick Sodano

Street Address: Suite 301S, 20 Clementon Rd

DEP Agency No.: 224

DEP Project Code: 1QD

City, State, Zip Code: Gibbsboro NJ 08026

Comments: May be very high Cr, Al
May have Chromic Acid
" " Phosphoric Acid ★

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)	~2-3	Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Fecal Streptococci (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Tot. Coli (MF)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ ~~Fluoride~~ (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL) PRIORITY TURN
- ☐ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☐ Cr-H (MACRH) PRIORITY TURN
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☒ Hg (MAHG) PRIORITY TURN
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Ti (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☐
- ☐ Do Hg only if
- ☐ you have enough
- ☐ volume.
- ☐
- ☐
- ☐
- ☐

CA280 Analysis

ATTACHMENT E-8

HEM-44
EB-87

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

ATTACHMENT

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Parts Cleaning Pit

Laboratory Sample Number: 25547

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum	183,300		
Antimony			
Arsenic			
Barium			
Beryllium			
Cadmium			
Calcium			
Chromium, Hexavalent			
Chromium, Total	344,000		
Cobalt			
Copper			
Iron			
Lead			
Magnesium			
Manganese			
Mercury	0.2 K		
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Titanium			
Tin			
Zinc			

PRIORITY TURNAROUND

Supervisor (Print)	Signature	Date

CHEM-14
MAY 86

DISTRIBUTION:
White - Sub Agency
Canary - Cont. File
Pink - Metals Lab

P8221

ATTACHMENT E-9

ATTACHMENT F

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
P.O. BOX CN 029
TRENTON, NEW JERSEY 08625

JOHN W. GASTON JR., P.E.
DIRECTOR

JUN 30 1983

Mr. John F. Collins
Aluminum Shapes, Inc.
9000 River Road
P.O. Box 397
Delair, NJ 08110

Re: RCRA Declassification Request
EPA ID No. NJD002338267

Dear Mr. Collins:

This letter is in response to your request of July 1, 1982 for declassification as a TSD facility under the Resource, Conservation and Recovery Act.

The "wastewater treatment unit", for which your company filed a RCRA Part A application as a treatment facility, has been determined to be under the scope of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1.1 et seq., since the effluent produced from the unit is not hazardous waste and is discharged directly to the sewer. Therefore, your company is no longer included in the New Jersey Department of Environmental Protection's list of existing hazardous waste treatment facilities, and is hereby declassified as a TSD facility.

The influent to your wastewater treatment unit, however, is still considered a hazardous waste. Thus your company is still subject to the Industrial Waste Management Facility (IWMF) requirements of Subchapter 4 of the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1.1 et seq. You will be notified in approximately 120 days of your obligations as an IWMF under the Subchapter.

The declassification as a treatment facility does not relieve Aluminum Shapes, Inc. of the responsibility for complying with the hazardous waste generation and accumulation requirements of the New Jersey Hazardous Waste Regulations, N.J.A.C. 7:26-1 et seq. Hazardous waste sludges generated from the unit may accumulate on-site for 90 days or less provided that:

(1) All such waste is, within 90 days or less, shipped off-site to an authorized facility;

ATTACHMENT F-1

(2) The waste is placed in containers which meet the standards of N.J.A.C. 7:26-7.2 and are managed in accordance with N.J.A.C. 7:26-9.4(d);

(3) The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;

(4) The facility complies with the requirements for owners and operators of N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, emergency procedures, and personnel training as per N.J.A.C. 7:26-9.4(g).

(5) For bulk accumulation of dry hazardous waste materials, the waste pile is managed according to the following:

(i) the waste pile is no larger than 200 cubic yards; and

(ii) the pile shall be placed on an impermeable base that is compatible with the waste; and

(iii) run-on shall be diverted away from the pile; and

(iv) any leachate and run-off form the pile must be collected and managed as a hazardous waste.

Any accumulation of such sludges for any period longer than 90 days would constitute a hazardous waste TSD storage facility, and would be subject to regulation under N.J.A.C. 7:26-1 et seq.

Finally, the declassification does not relieve the company of the responsibility for compliance with N.J.A.C. 7:26-7.6(f)2 annual reporting. Annual reports shall continue to be submitted to the Bureau of Hazardous Waste Engineering prior to March 1 of the year following the reporting year.

If there are any questions concerning this letter, please contact me at (609) 292-4860.

Very truly yours,

Kenneth Goldstein

Kenneth Goldstein, P.E., Chief
Industrial Pretreatment Section
Water Quality Management

WQM8-B/PTS1:fmm

cc: Frank Coolick - DWM
Dr. David Leu - DWM
Joel Golumbek - EPA

ATTACHMENT F-2

ATTACHMENT G

State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
ENFORCEMENT ELEMENT
TWIN RIVERS OFFICE PLAZA
State Highway 33
Hightstown, New Jersey 08520

JOHN W. GASTON JR., P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

TELEGRAM ORDER

FEB 26 1986

Aluminum Shapes

9000 River Road

Delair, New Jersey 08110

ATTENTION: John Collins, Vice President of Production

Telephone# (609) 662-5500

RE: Aluminum Shapes

Pennsauken Township/Camden County

Gentlemen:

You are hereby Ordered to immediately cease the discharge of contaminated storm water from the hydraulic fluid tank dike owned and operated by Aluminum Shapes located on River Road in Pennsauken Township. The discharge of contaminants onto the ground or into surface waters of the state except in conformity with a New Jersey Pollutant Discharge Elimination System permit is unlawful and in violation of the New Jersey Water Pollution Control Act, N.J.A.C. 58:10A-6.

All soil contaminated by the above illegal discharge noted by Department representatives on February 24, 1986 and the contaminated soil in the vicinity of the former transformer storage area shall immediately be collected and held in a covered containment vessel. This material shall be separately sampled and analyzed by a New Jersey certified laboratory for the following parameters:

EP toxicity for heavy metals

Reactivity

PCB's

Total Petroleum Hydrocarbons

The analyses shall be submitted within ten (10) days of receipt of this Order to this office and to the Bureau of Hazardous Waste Classification, Division of Waste Management for classification. This classification will be utilized to determine the ultimate disposal site.

You are further Ordered to notify Ms. Carol Osborn at (609) 426-0791 during working hours, or the Department's Action Line at (609) 292-7172 daily of the progress being made to remove all contaminants from the ground and to a location which will not allow them to spill or wash into ground or surface waters of the state.

ATTACHMENT G-2

Failure to fully comply with this Order may result in prosecution under N.J.S.A. 58:10A-10, under which statutes you could be held liable for civil penalties of up to $10,000 per day or a criminal penalty of up to $25,000 per day and/or one year in prison.

Inspections will be made to determine compliance.

Very truly yours,

James K. Hamilton, Chief
Southern Bureau of
Regional Enforcement

cc: Bureau of Waste Classification
Steve Urbanik, Bureau of Ground Water Permits
Linda Welkom, Geologist, NJGS
Camden County Health Department
Pennsauken Township

bcc: Pete Patterson
Marianne Montgomery
Region File/Tomasello
Carol Osborn
Division File
James K. Hamilton
Steve Madonna, Criminal Justice
Susan Savoca, ORS

ATTACHMENT G-3

ATTACHMENT H

LEASE AGREEMENT

THIS AGREEMENT made as of the day of , 1986, by and between ALUMINUM SHAPES, INC., a corporation having offices at 9000 River Road, Pennsauken, New Jersey (hereinafter referred to as "Aluminum Shapes") and the PENNSAUKEN SOLID WASTE MANAGEMENT AUTHORITY, a corporate body politic, having offices at 9600 River Road, Pennsauken, New Jersey 08110 (hereinafter referred to as "PSWMA");

WITNESSETH AS FOLLOWS:

WHEREAS, Aluminum Shapes is the owner of certain lands and premises lying and being in the Township of Pennsauken, County of Camden and State of New Jersey, and shown on the tax maps of said Township as Block S-250, Lots 1, 1A, 1AA, 1B and 2 (hereinafter the "Aluminum Shapes Property"); and

WHEREAS, PSWMA is the lessee of certain lands and premises, owned by the Township of Pennsauken, lying and situate in the Township of Pennsauken, County of Camden and State of New Jersey, (commonly known as and hereinafter referred to as the "Landfill"); and

WHEREAS, the Landfill abuts and is contiguous with the Aluminum Shapes Property; and

WHEREAS, over the years the ground elevation of the Landfill Property has increased in height in the areas of the Landfill adjacent to the Aluminum Shapes Property, as well as in other areas, causing changes in the velocity and amount of

H-1

ATTACHMENT

run-off of surface waters from the Landfill Property onto the Aluminum Shapes Property; and

WHEREAS, the parties hereto have indicated a willingness and desire to provide for an orderly arrangement relating to the question of surface water run-off from the Landfill to the Aluminum Shapes Property, and wish to set forth their complete agreement and understanding concerning the same;

NOW, THEREFORE, in consideration of the foregoing premises, and of the mutual and several covenants and agreements set forth below, the parties hereto, intending to be legally bound hereby, do covenant and agree as follows:

1. Aluminum Shapes hereby grants and lets unto PSWMA a non-exclusive leasing of that portion of Block S-250, Lot 2 of the Aluminum Shapes Property which lies generally northeasterly of a certain fence lying to the northeast of the existing buildings on the Aluminum Shapes Property, said fence being essentially perpendicular to River Road and extending in a generally southeasterly direction from River Road to the Landfill Property as shown in approximation on Schedule A annexed hereto and made a part hereof. For the purposes of this Agreement, the afore-described area shall be known as the "Demised Premises".

2. PSWMA shall take and use the Demised Premises for the purpose of permitting surface water run-offs from the Landfill Property onto the Demised Premises, and for no other purpose, except as expressly set forth herein. Notwithstanding the foregoing, the letting of the Demised Premises to PSWMA is deemed non-exclusive, in the sense that Aluminum Shapes shall be per-

ATTACHMENT 4-2

permitted to continue to allow surface waters to run and drain from the Aluminum Shapes Property onto and into the Demised Premises, and for other uses of the Demised Premises which will not interfere with the use thereof by PSWMA, and to enter the Demised Premises for such other uses.

3. The annual rental fee to be paid by PSWMA to Aluminum Shapes shall be $1.00, payable upon the execution of this Agreement and thereafter, annually on the anniversary date of the execution of this Agreement.

4. The initial term of this Agreement shall be for one (1) year, and such term shall automatically renew thereafter for a succession of additional one (1) year terms on the anniversary date hereof, unless either party has given six (6) months written notice to the other party of its intention to terminate this Agreement, in which case this Agreement shall be terminated at the expiration of the term during which the said six (6) months written notice of termination has been given.

5. As a condition precedent to the continued effectiveness of this Agreement, PSWMA shall, at PSWMA's expense alone, diligently, promptly, and with requisite care and skill, proceed to perform the following work and improvements on the Demised Premises:

A. To enlarge the two existing natural drainage basins or ponds in the Demised Premises (shown as areas 1 and 2 on Exhibit A annexed hereto);

B. To connect the existing natural drainage basins by means of an underground pipe (shown as number 3 on Exhibit A);

ATTACHMENT 4-3

C. To "build up" the grade elevation of the area of the Demised Premises adjacent to River Road (shown as area 4 on Exhibit A); and

D. To generally "clean up" and improve the aesthetics of the Demised Premises.

In accomplishing the aforesaid work and improvements, PSWMA shall determine the specifications, sizes, dimensions, materials, designs, and methods of construction to be used, provided, however, that due care shall be taken to avoid any design or construction that would cause run-off from the Demised Premises onto the remaining areas of the Aluminum Shapes Property, onto River Road, or onto any other properties.

6. Recognizing that the drainage areas on the Demised Premises will be enlarged, it shall be the responsibility of PSWMA to provide whatever fencing or other security measures are necessary to prevent access by third parties or persons to the Demised Premises.

7. All work and improvements performed by PSWMA on the Demised Premises shall be done in accordance with all ordinances, resolutions, statutes, rules, regulations and directives that may be applicable to the lands and the activities described herein. It shall be the responsibility of PSWMA alone to obtain any such approvals, licenses, permits, consents, certificates or the like, if any, that may be required for the work, improvements, use and maintenance of the Demised Premises.

ATTACHMENT H-4

8. During the continued term of this Agreement, it shall be the responsibility of PSWMA alone to maintain the Demised Premises, (including the surface, subsurface and improvements that may be installed), in accordance with all ordinances, resolutions, statutes, rules, regulations and directives applicable to the same. Subsequent to the termination hereof, PSWMA shall remain responsible for any matter, substances and materials that may have been deposited on or in the Demised Premises during the time that PSWMA shall have suffered, caused, permitted or allowed waters to flow from the Landfill to the Demised Premises, and shall remain subject to all applicable laws.

9. PSWMA alone shall be responsible for any questions of water quality with respect to materials or substances which have been deposited on the Demised Premises from the waters draining from the Landfill Property onto the Demised Premises.

10. PSWMA shall indemnify and save harmless Aluminum Shapes with respect to any claims, actions, suits, damages, awards, penalties, fines, fees or the like which arise directly or indirectly from any act or omission of PSWMA in improving, maintaining or using the Demised Premises, past or future. Without limiting the generality of the foregoing, PSWMA shall defend any such actions, suits or proceedings that may be brought against Aluminum Shapes arising, directly or indirectly, from the acts or

ATTACHMENT H-5

omissions of PSWMA with respect to the improvement, use and maintenance of the Demised Premises, including, but not limited to attorneys' fees, witness fees, discovery costs, expert witnesses, judgments, awards, fines, penalties, interest, appeal bonds, and any other costs associated with such actions, suits or proceedings. The aforesaid indemnification shall not apply to those portions or parts of any claims which arise from any act, omission or negligence of Aluminum Shapes. Aluminum Shapes agrees that it shall promptly give written notice to PSWMA of any claim, action, suit or proceeding initiated by any person, firm or entity, relating to the Demised Premises and for which Aluminum Shapes will seek indemnification pursuant to this Paragraph.

Aluminum Shapes shall indemnify and save harmless PSWMA with respect to any claims, actions, suits, damages, awards, penalties, fines or the like which arise directly or indirectly from any act or omission of Aluminum Shapes with respect to the Demised Premises, past or future. Without limiting the generality of the foregoing, Aluminum Shapes shall defend any such actions, suits or proceedings that may be brought against PSWMA arising, directly or indirectly, from the acts or omission of Aluminum Shapes with respect to the Demised Premises, including, but not limited to, attorneys' fees, witness fees, discovery costs, expert witnesses, judgments, awards, fines, penalties, interest, appeal bonds, and any other costs associated with such actions, suits or proceedings. The aforesaid indemnification shall not apply to those portions or part of any claims which

ATTACHMENT H-6

arise from any act, omission or negligence of PSWMA. PSWMA agrees that it shall promptly give written notice to Aluminum Shapes of any claim, action, suit or proceeding initiated by any person, firm or entity, relating to the Demised Premises and for which PSWMA will seek indemnification pursuant to this Paragraph.

The indemnifications provided for in this Agreement are contractual obligations, and are in addition to any common law and statutory rights, remedies and defenses that either party may have.

11. Aluminum Shapes and PSWMA agree that they will cooperate with one another in carrying out the purposes of this Agreement.

12. Aluminum Shapes acknowledges that the $1.00 per year rental is insubstantial, but that the mutual benefits to be enjoyed by Aluminum Shapes and PSWMA from their common usage of the Demised Premises for the drainage of surface waters, together with the additional undertakings of PSWMA as more fully set forth hereinabove, constitute good, valid and adequate consideration for the entering of this Agreement.

13. In entering this Agreement, Aluminum Shapes represents that this Agreement has been duly authorized by its Board of Directors and PSWMA represents that this Agreement has been duly authorized by the Commissioners of PSWMA.

14. This Agreement represents the complete agreement and understanding of the parties hereto with respect to the Demised Premises. No prior, contemporaneous or subsequent oral state-

ATTACHMENT 4-7

ment nor any prior or contemporaneous writing shall be admissible to explain, interpret, alter, modify or amend this Agreement. This Agreement may only be amended by a subsequent writing signed by the parties hereto.

15. This Agreement shall be interpreted pursuant to and governed by the laws of the State of New Jersey.

16. This Agreement shall be executed in multiple photocopy counterparts, each of which said counterpart shall be deemed an original for all purposes.

IN WITNESS WHEREOF, the parties hereto have caused these presents to be executed by their authorized officers as of the date first above written, at Pennsauken, New Jersey.

ALUMINUM SHAPES, INC.

BY: _____
STEPHEN KENDALL, President

(SEAL) ATTEST:

_____
Secretary

PENNSAUKEN SOLID WASTE MANAGEMENT AUTHORITY

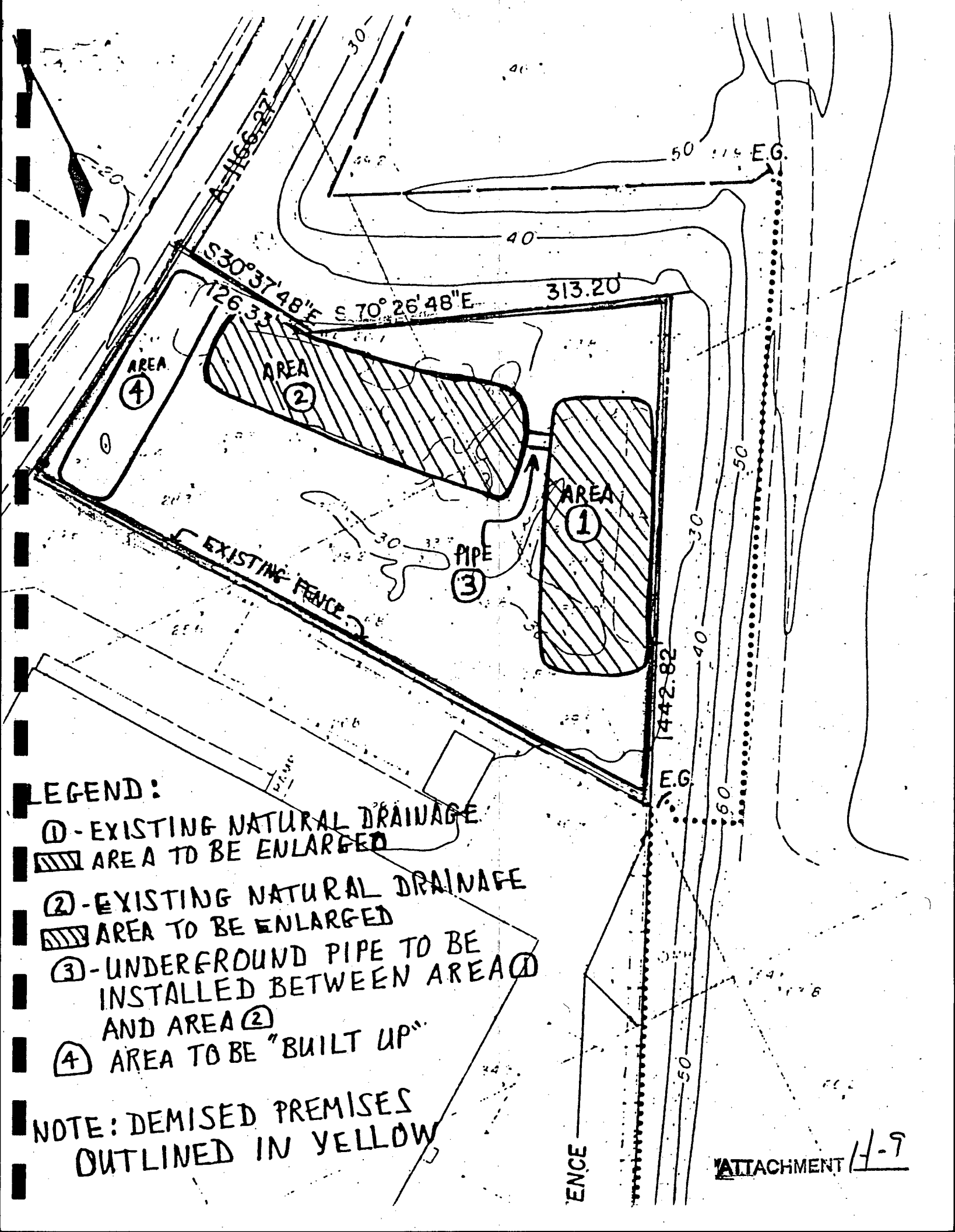
BY: _____
Chairman

(SEAL) ATTEST:

_____
Executive Dir.

215/092085A

ATTACHMENT 4-8


S30°37'48"E
126.33'
S 70°26'48"E
313.20'
AREA 4
AREA 2
AREA 1
PIPE 3
EXISTING FENCE
E.G.
442.82
LEGEND:
1 - EXISTING NATURAL DRAINAGE
AREA TO BE ENLARGED
2 - EXISTING NATURAL DRAINAGE
AREA TO BE ENLARGED
3 - UNDERGROUND PIPE TO BE INSTALLED BETWEEN AREA 1 AND AREA 2
4 AREA TO BE "BUILT UP"
NOTE: DEMISED PREMISES OUTLINED IN YELLOW
ATTACHMENT 1-9

ATTACHMENT I

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

December 1986

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4
Benzene	9.0	25.0	42.0	ND
Trans-1,2-Dichloroethylene	24.0	ND	ND	52.0
Ethlybenzene	ND	50.0	140.0	ND
Vinyl Chloride	8.0	ND	ND	ND
Chlorobenzene	ND	14.0	68.0	ND
Toluene	ND	5.0	5.0	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND
Methylene Chloride *	ND	ND	ND	ND
1,2-Dichloropropene	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	ND
1,1-Dichloroethane *	ND	ND	ND	ND
Chloroethane *	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

I-1

ATTACHMENT

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

March 1987

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4
Benzene	38.0	72.0	55.0	ND
Trans-1,2-Dichloroethylene	76.0	8.2	7.0	115.0
Ethlybenzene	ND	8.1	18.0	ND
Vinyl Chloride	25.0	ND	ND	ND
Chlorobenzene	6.0	48.0	29.0	ND
Toluene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	6.7
Tetrachloroethylene	ND	ND	ND	ND
Methylene Chloride *	ND	ND	ND	ND
1,2-Dichloropropene	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	ND
1,1-Dichloroethane *	ND	ND	ND	ND
Chloroethane *	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-d

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

June 1987

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4
Benzene	25.0	43.0	28.0	ND
Trans-1,2-Dichloroethylene	32.0	11.0	ND	36.0
Ethlybenzene	ND	ND	ND	ND
Vinyl Chloride	12.0	ND	ND	ND
Chlorobenzene	ND	20.0	22.0	ND
Toluene	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	8.0
Tetrachloroethylene	ND	ND	ND	ND
Methylene Chloride *	ND	ND	ND	ND
1,2-Dichloropropene	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	ND
1,1-Dichloroethane *	ND	ND	ND	ND
Chloroethane *	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-3

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

October 1987

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Benzene	29.0	ND	5.0	ND	ND	ND
Trans-1,2-Dichloroethylene	16.0	ND	ND	7.0	ND	ND
Ethlybenzene	ND	ND	ND	ND	ND	2700.0
Vinyl Chloride	9.0	ND	ND	ND	ND	ND
Chlorobenzene	4.0	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	1500.0
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	2.0	ND	ND	6.0	ND	ND
Methylene Chloride *	1.0	ND	ND	ND	6.0	ND
1,2-Dichloropropene	2.0	ND	ND	ND	ND	ND
Trichloroethylene	1.0	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane *	1.0	ND	ND	ND	ND	ND
Chloroethane *	ND	ND	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-4

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

December 1987

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Benzene	26.0	3.0	20.0	ND	13.0	ND
Trans-1,2-Dichloroethylene	16.0	2.0	3.0	3.0	3.0	6.0
Ethlybenzene	ND	1.0	170.0	ND	ND	ND
Vinyl Chloride	10.0	2.0	4.0	ND	ND	ND
Chlorobenzene	4.0	ND	7.0	ND	8.0	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	2.0	2.0	5.0	4.0	3.0	ND
Methylene Chloride *	1.0	ND	ND	ND	ND	ND
1,2-Dichloropropene	2.0	ND	1.0	1.0	ND	ND
Trichloroethylene	1.0	ND	1.0	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	1.0	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	1.0	ND	ND
1,1-Dichloroethane *	1.0	ND	ND	ND	ND	4.0
Chloroethane *	ND	ND	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-5

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

March 1988

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Benzene	28.0	ND	6.0	ND	19.0	ND
Trans-1,2-Dichloroethylene	11.0	ND	ND	ND	ND	ND
Ethlybenzene	ND	ND	14.0	ND	ND	18.0
Vinyl Chloride	8.0	ND	ND	ND	5.0	ND
Chlorobenzene	ND	ND	ND	ND	14.0	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	6.0	ND	ND	ND
Methylene Chloride *	ND	ND	ND	ND	159.0	15.0
1,2-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane *	ND	ND	ND	ND	ND	ND
Chloroethane *	ND	191.0	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-6

Table 1

Base Neutral Compounds Detected in the Sump System
Aluminum Shapes Inc., Delair, New Jersey

Base Neutral Compound (ug/l)	Date 12/86	3/87	6/87	10/87	12/87	3/88	6/88	9/88
Bis(2-Ethylhexyl)Phthalate *	ND	13.0	ND	25.0	ND	9.6	ND	ND
1-4,Dichlorobenzene *	ND	ND	ND	ND	ND	ND	ND	ND
Napthalene *	ND	ND	ND	ND	ND	ND	ND	ND
Chrysene	6.0	ND	ND	ND	ND	ND	ND	ND
Hexachloroethane	ND	ND	ND	ND	ND	ND	ND	ND
N-Nitroso Di-N-PropylAmine	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	ND	ND	ND	ND	ND	9.6	ND	ND
1,2-Diphenyl Hydrazine	ND	ND	ND	ND	5.0	ND	ND	ND
Di-n-butylphthalate	ND	ND	ND	ND	ND	13.0	ND	ND
N-Nitrosodiphenylamine	ND	ND	ND	ND	5.0	ND	ND	ND
Di-n-Octyl Phthalate	ND	ND	ND	ND	38.0	ND	ND	ND
Hexachlorobenzene	ND	ND	ND	ND	25.0	ND	ND	ND
2,4-Dinitrotoluene	ND	ND	ND	ND	12.0	ND	ND	ND
3,3-Dichlorobenzidine	ND	ND	ND	ND	12.0	ND	ND	ND
ButylBenzylPhthalate	ND	ND	ND	20.0	ND	ND	ND	ND
4-Chlorophenyl Phenyl Ether	ND	ND	ND	ND	12.0	ND	ND	ND
Benzidine	ND	ND	ND	ND	38.0	ND	ND	ND
Benzo(k)Fluoranthene	ND	ND	ND	ND	38.0	ND	ND	ND

* - Indicates compound was detected in one or more of the monitoring wells
ND - Not Detected : Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-7

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

June 1988 page 7

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Benzene	ND	ND	ND	ND	37.7	ND
Trans-1,2-Dichloroethylene	ND	ND	ND	ND	ND	ND
Ethlybenzene	ND	ND	ND	ND	ND	ND
Vinyl Chloride	5.7	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	5.5
Methylene Chloride *	ND	ND	ND	ND	ND	ND
1,2-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	ND	ND	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane *	ND	8.7	ND	ND	ND	ND
1,1-Dichloroethane *	ND	12.5	ND	ND	ND	ND
Chloroethane *	ND	ND	ND	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-8

Table 5

Select Inorganic Parameters Detected in
the Sump System and Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

June 1988

Parameter (mg/l)	Sump	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Manganese	0.035	0.058	0.738	2.03	0.321	1.23	0.849
Total Chromium	ND	ND	ND	ND	0.184	ND	ND
Hex Chromium	ND	ND	ND	ND	0.13	0.04	0.04
Aluminum	2.76	0.19	ND	0.18	0.17	0.45	0.14
TDS	272.0	196.0	98.0	190.0	452.0	214.0	148.0
Oil and Grease	16.0	1.0	2.0	2.0	2.0	2.0	1.0

MW-1 is background
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-9

Table 4

Volatile Organic Compounds Detected
in the Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

September 1988 page 8

Volatile Organic Compound (ug/l)	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Benzene	21.0	ND	ND	ND	13.2	ND
Trans-1,2-Dichloroethylene	18.4	ND	ND	ND	ND	ND
Ethlybenzene	ND	ND	ND	ND	ND	8.3
Vinyl Chloride	6.8	ND	ND	ND	ND	ND
Chlorobenzene	ND	ND	ND	ND	ND	ND
Toluene	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethene	ND	ND	ND	ND	ND	ND
Tetrachloroethylene	ND	ND	ND	ND	ND	ND
Methylene Chloride *	ND	ND	ND	ND	ND	ND
1,2-Dichloropropene	ND	ND	ND	ND	ND	ND
Trichloroethylene	ND	5.9	6.5	ND	ND	ND
1,1-Dichloroethylene	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane *	13.1	15.4	10.6	6.9	6.3	ND
1,1-Dichloroethane *	ND	13.8	5.1	ND	5.5	ND
Chloroethane *	ND	5.9	6.5	ND	ND	ND

MW-1 and MW-6 are background wells
MW-1, MW-3, MW-4 and MW-5 are downgradient from the sump.
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-10

Table 2

Base Neutral Compounds Detected in the Monitoring Wells
Aluminum Shapes Inc., Delair, New Jersey

Well ID	Base Neutral Compound (ug/l)	Date 12/86	3/87	6/87	10/87	12/87	3/88	6/88	9/88
MW-1	Bis(2-Ethylhexyl)Phthalate	ND	ND	ND	ND	ND	ND	ND	51.8
	1-4,Dichlorobenzene *	ND	ND	ND	ND	ND	ND	ND	ND
	Napthalene *	ND	ND	ND	ND	ND	ND	ND	ND
MW-2	Bis(2-Ethylhexyl)Phthalate	10.0	ND	ND	ND	ND	ND	ND	39.8
	1-4,Dichlorobenzene *	11.0	17.0	ND	ND	ND	ND	ND	ND
	Napthalene *	ND	ND	ND	ND	ND	ND	ND	ND
MW-3	Bis(2-Ethylhexyl)Phthalate	ND	ND	ND	ND	ND	ND	ND	37.4
	1-4,Dichlorobenzene *	39.0	ND	ND	14.0	14.0	ND	ND	ND
	Napthalene *	6.0	ND	ND	ND	ND	ND	ND	ND
MW-4	Bis(2-Ethylhexyl)Phthalate	7.0	ND	ND	ND	ND	ND	ND	48.3
	1-4,Dichlorobenzene *	ND	ND	ND	ND	ND	ND	ND	ND
	Napthalene *	ND	ND	ND	ND	ND	ND	ND	ND
MW-5	Bis(2-Ethylhexyl)Phthalate				ND	ND	ND	ND	37.9
	1-4,Dichlorobenzene *				6.0	10.0	ND	ND	ND
	Napthalene *				ND	ND	ND	ND	ND
MW-6	Bis(2-Ethylhexyl)Phthalate				ND	ND	ND	ND	48.3
	1-4,Dichlorobenzene *				ND	ND	ND	ND	ND
	Napthalene *				29.0	ND	ND	ND	ND

* - Indicates compound was detected in one or more of the monitoring wells
ND - Not Detected : Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-H

Table 3

Volatile Organic Compounds Detected in the Sump System
Aluminum Shapes Inc., Delair, New Jersey

Volatile Organic Compound (ug/l)	Date							
	12/86	3/87	6/87	10/87	12/87	3/88	6/88	9/88
1,1,1-Trichloroethane	17.0	ND	ND	8.8	7.0	ND	ND	ND
Chloroethane	ND	ND	ND	ND	2.0	ND	ND	ND
Methylene Chloride	ND	ND	ND	ND	2.0	59.0	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	2.0	ND	ND	ND

ND - Not Detected : Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-12

Table 5

Select Inorganic Parameters Detected in
the Sump System and Monitoring Wells

Aluminum Shapes Inc., Delair, New Jersey

September 1988

Parameter (mg/l)	Sump	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6
Manganese	0.064	0.147	0.623	3.34	0.190	0.984	0.977
Total Chromium	ND	ND	ND	ND	0.161	ND	ND
Hex Chromium	ND	ND	ND	ND	ND	ND	ND
Aluminum	7.97	0.216	ND	ND	ND	ND	ND
TDS	76.0	17.0	84.0	17.0	84.0	113.0	36.0
Oil and Grease	93.0	2.0	3.0	3.0	4.0	10.0	1.0

MW-1 is background
ND - Not Detected; Detection Limits are provided in the NJDEPS Quarterly Monitoring Report

Source: BCM Engineers Inc., Project No. 00-5007-05

ATTACHMENT I-13

New Jersey State Dep[illegible]ent of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample N[illegible]T

[X] Routine (9) [ ] Priority (2) [ ] Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Aluminum Shapes

Sampling Site/Facility/Supply/Location: MW # 3

[illegible]am

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 11/7/88

Collection Time (Military): 1430

Field Sample Number: 46365

Sample Type
- [ ] Stream/Surface
- [ ] Sewage [ ] Raw [ ] Effluent
- [ ] Industrial [ ] Raw [ ] Effluent
- [X] Ground Water
- [ ] Potable-Raw
- [ ] Potable-Finished
- [ ] Private Well
- [ ] Ocean/Saline
- [ ] Other

Chain of Custody [X] Yes [ ] No

Data Package [ ] Tier II [X] Tier I

Retain Sample [ ] Yes [X] No

AGENCY INFORMATION

Submitting Agency: DWR/Sa Enf

Sample Collector: Nick SodANO

[illegible]eet Address: 301 S 20 E Clementon Rd

DEP Agency No.: 224

DEP Project Code: 1QD

City, State, Zip Code: Gibbsboro NJ 08026

TB#44382

Comments: Identify All peaks as per DOH/DEP agreement Sect. 5

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

[illegible]ct. Lab. Sample No. _____

[illegible]ate Received _____

- [ ] Fecal Coli (MPN)
- [ ] Tot. Coli (MPN)
- [ ] Fecal Coli (MF)
- [ ] Tot. Coli (MF)
- [ ] Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- [ ] N02-N (NAN02N)
- [ ] N02 + N03-N (NAN03N)
- [ ] NH3-N (NANH3N)
- [ ] TKN (NATKN)
- [ ] ORTHO-P (NAOP)
- [ ] TOTAL-P (NATP)

DEMANDS

- [ ] COD (COD)
- [ ] TOC (DATOC)
- [ ] BOD5 (BOD5)
- [ ] CBOD5 (CBOD5)
- [ ] BOD20 (BOD2)
- [ ] CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- [ ] Non-Filterable Residue (RASS)
- [ ] Total Residue (RATS)
- [ ] Filterable Residue (RATDS)
- [ ] Non-Filterable Volatile Residue (RAVSS)
- [ ] Total Volatile Residue (RAVTS)
- [ ] Filterable Volatile Residue (RAVDS)
- [ ] Settable Matter (RASM)

GENERAL

- [ ] Color (GAC)
- [ ] Odor (GAO)
- [ ] Turbidity (GAT)
- [ ] PH (GAPH)
- [ ] Alkalinity (GAALK)
- [ ] Acidity (GAACID)
- [ ] Chloride (GACL)
- [ ] MBAS (GAMBAS)
- [ ] Phenols (SSI) (GAPHE)
- [ ] Phenols (PW) (GAPHEX)
- [ ] Hardness (GARHARD)
- [ ] Sulfate (GASO4)
- [ ] Oil & Grease (GAOG)
- [ ] Petroleum Hydrocarbons (GAPHC)
- [ ] Cyanide (GACN)
- [ ] Conductance (GACOND)
- [ ] Dissolved Oxy. (GADO)
- [ ] Fluoride (GAF)
- [ ] Fluoride w/Dist. (GAFD)
- [ ] Silica (GASI)
- [ ] Sulfide (GAS)

METALS

- [ ] Ag (MAAG)
- [ ] Al (MAAL)
- [ ] As (MBAS)
- [ ] Ba (MABA)
- [ ] Be (MABE)
- [ ] Ca (MACA)
- [ ] Cd (MACD)
- [ ] Cr-H (MACRH)
- [ ] Cr-T (MACR)
- [ ] Co (MACO)
- [ ] Cu (MACU)
- [ ] Fe (MAFE)
- [ ] Hg (MAHG)
- [ ] K (MAK)
- [ ] Mg (MAMG)
- [ ] Mn (MAMN)
- [ ] Na (MANA)
- [ ] Ni (MANI)
- [ ] Pb (MAPB)
- [ ] Sb (MBSB)
- [ ] Se (MBSE)
- [ ] Sn (MBSN)
- [ ] Tl (MBTI)
- [ ] Tl (MBTL)
- [ ] Zn (MAZN)

ORGANICS

- [ ] EPA 601 (VO601)
- [ ] EPA 602 (V0602)
- [ ] EPA 612 (VO612)*
- [X] EPA 624 (VO624)*
- [ ] EPA 625 (VO625)
- [ ] EPA 625 Base Neut. only (M625B)
- [ ] EPA 625 Acids only (M625A)
- [ ] EPA 503.1 (VO503)*
- [ ] PEST 1 Organochlorines and PCB's*
- [ ] PEST 2 Organophosphates
- [ ] PEST 3 Herbicides
- [ ] PEST 4 Drinking Water
- [ ] PCB's Only

OTHER

- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____
- [ ] _____

*A280 Analysis

CHEM-44
FEB-87

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sa[illegible]

ATTACHMENT I-14

P8912

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

DEP SAMPLE NO.
46365

Lab Name: N.J. DEPARTMENT OF HEALTH
Contract: NA
Matrix: (soil/water) WATER
Lab Sample ID: 46365 MW-3
Level: (low/med) LOW
Lab File ID: >H5961
Column: (packed) 1%SP1000
Date Collected: 11/10/88
Dilution Factor: 1.00000
Date Analyzed: 11/16/88

CAS NO.	COMPOUND	CONCENTRATION ug/L	Q
74-87-3	Chloromethane	3.	U
74-83-9	Bromomethane	2.	U
75-01-4	Vinyl Chloride	3.	U
75-00-3	Chloroethane	2.	U
75-09-2	Methylene Chloride	.01	J
75-69-4	Trichlorofluoromethane	2.	U
75-35-4	1,1-Dichloroethene	2.	U
75-34-3	1,1-Dichloroethane	4.	
156-60-5	(trans) 1,2-Dichloroethene	.4	J
67-66-3	Chloroform	2.	U
107-02-2	1,2-Dichloroethane	2.	U
71-55-6	1,1,1-Trichloroethane	1.	JB
56-23-5	Carbon Tetrachloride	2.	U
75-27-4	Bromodichloromethane	2.	U
78-87-5	1,2-Dichloropropane	2.	U
10061-01-5	(cis) 1,3-Dichloropropene	2.	U
79-01-6	Trichloroethene	2.	U
124-48-1	Dibromochloromethane	2.	U
79-00-5	1,1,2-Trichloroethane	2.	U
71-43-2	Benzene	6.	
10061-02-6	(trans) 1,3-Dichloropropene	2.	U
110-75-5	2-Chloroethylvinyl ether	2.	U
75-25-2	Bromoform	2.	U
127-18-4	Tetrachloroethene	2.	U
79-34-5	1,1,2,2-Tetrachloroethane	2.	U
108-88-3	Toluene	.07	J
108-90-7	Chlorobenzene	4.	
100-41-4	Ethylbenzene	2.	
541-73-1	1,3-Dichlorobenzene	.5	J
95-50-1	1,2-Dichlorobenzene	2.	U
106-46-7	1,4-Dichlorobenzene	10.	

* NON-TARGET compounds detected ... SEE ATTACHED FORMS!

FORM 1 VOA 1/87 Rev.

Analyst Richard L. Whitehill Richard L. Whitehill 11/17/88

REPORT SUBMITTED
ATTACHMENT I-15
DEC 16 1988
NJDOH ENVIRONMENTAL

Supervisor LINDA M. Appel Linda M. Appel 11/23/88

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample No. 3

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Aluminum Shapes

Sampling Site/Facility/Supply/Location: Pennsauken Landfill Well #4

Stream:

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 11/8/88

Collection Time (Military): 0900

Field Sample Number: 46367

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☐ Industrial ☐ Raw ☐ Effluent
- ☒ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency: DWR/SO Enf

Sample Collector: Nick Sodano

Street Address: Suite 301S, 20 Clementon Rd

DEP Agency No.: 224

DEP Project Code: 1QD

City, State, Zip Code: Gibbsboro NJ 08026

TB# 44382

Comments: Identify all peaks as per DOH/DEP agreement Sect 5

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Direct. Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN) ☐ Tot. Coli (MPN)
- ☐ Fecal Coli (MF) ☐ Tot. Coli (MF)
- ☐ Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☐ Al (MAAL)
- ☐ As (MBAS)
- ☐ Ba (MABA)
- ☐ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☐ Cr-H (MACRH)
- ☐ Cr-T (MACR)
- ☐ Co (MACO)
- ☐ Cu (MACU)
- ☐ Fe (MAFE)
- ☐ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☐ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☐ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Tl (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☒ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

*A280 Analysis

ATTACHMENT I-16

CHEM-44
FEB-87

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

DEP SAMPLE NO.
46367

Pennsauken SLF
MW #4

Lab Name: N.J. DEPARTMENT OF HEALTH
Contract: NA

Matrix: (soil/water) WATER
Lab Sample ID: 46367

Level: (low/med) LOW
Lab File ID: >H5962

Column: (packed) 1%SP1000
Date Collected: 11/10/88

Dilution Factor: 1.00000
Date Analyzed: 11/16/88

CAS NO.	COMPOUND	CONCENTRATION ug/L	Q
74-87-3	Chloromethane	3.	IU
74-83-9	Bromomethane	2.	IU
75-01-4	Vinyl Chloride	3.	IU
75-00-3	Chloroethane	2.	IU
75-09-2	Methylene Chloride	2.	IU
75-69-4	Trichlorofluoromethane	2.	IU
75-35-4	1,1-Dichloroethene	.03	IJ
75-34-3	1,1-Dichloroethane	2.	IU
156-60-5	(trans) 1,2-Dichloroethene	2.	IU
67-66-3	Chloroform	2.	IU
107-02-2	1,2-Dichloroethane	2.	IU
71-55-6	1,1,1-Trichloroethane	.8	IJB
56-23-5	Carbon Tetrachloride	2.	IU
75-27-4	Bromodichloromethane	2.	IU
78-87-5	1,2-Dichloropropane	2.	IU
10061-01-5	(cis) 1,3-Dichloropropene	2.	IU
79-01-6	Trichloroethene	2.	IU
124-48-1	Dibromochloromethane	2.	IU
79-00-5	1,1,2-Trichloroethane	2.	IU
71-43-2	Benzene	2.	IU
10061-02-6	(trans) 1,3-Dichloropropene	2.	IU
110-75-5	2-Chloroethylvinyl ether	2.	IU
75-25-2	Bromoform	2.	IU
127-18-4	Tetrachloroethene	.2	IJ
79-34-5	1,1,2,2-Tetrachloroethane	2.	IU
108-88-3	Toluene	2.	IU
108-90-7	Chlorobenzene	2.	IU
100-41-4	Ethylbenzene	2.	IU
541-73-1	1,3-Dichlorobenzene	2.	IU
95-50-1	1,2-Dichlorobenzene	2.	IU
106-46-7	1,4-Dichlorobenzene	3.	IU

*ONE NON TARGET PEAK -- SEE ATTACHED FORM

FORM I VOA 1/87 Rev.

Analyst Richard C. Whitehill Richard C. Whitehill 11/17/88

REPORT SUBMITTED
ATTACHMENT I-17
DEC 16 1988
NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

Supervisor LINDA M. Appel Linda M. Appel 11/23/88

New Jersey State Dep[illegible]ent of Health
Public Health and Environ[illegible]ntal Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample N[illegible]

[X] Routine (9) [ ] Priority (2) [ ] Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Aluminum Shapes

Sampling Site/Facility/Supply/Location: Well #6

Stream:

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 1/7/88

Collection Time (Military): 1330

Sample Type
- [ ] Stream/Surface
- [ ] Sewage [ ] Raw [ ] Effluent
- [ ] Industrial [ ] Raw [ ] Effluent
- [X] Ground Water
- [ ] Potable-Raw
- [ ] Potable-Finished
- [ ] Private Well
- [ ] Ocean/Saline
- [ ] Other

Field Sample Number: 46363

Chain of Custody [X] Yes [ ] No

Data Package [ ] Tier II [X] Tier I

Retain Sample [ ] Yes [X] No

AGENCY INFORMATION

Submitting Agency: DWR/So. Enf.

Sample Collector: Nick Sodano

Street Address: Suite 3015, 20 E Clementon St.

DEP Agency No.: 224

DEP Project Code: 1QD

City, State, Zip Code: Gibbsboro NJ 08026

TB# 44382

Comments: Identify all peaks as per DOH/DEP agreement sect 5

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Prot. Lab. Sample No.

Date Received

- [ ] Fecal Coli (MPN)
- [ ] Fecal Coli (MF)
- [ ] Fecal Streptococci (MPN)
- [ ] Tot. Coli (MPN)
- [ ] Tot. Coli (MF)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Total / Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- [ ] NO2-N (NAN02N)
- [ ] NO2 + NO3-N (NAN03N)
- [ ] NH3-N (NANH3N)
- [ ] TKN (NATKN)
- [ ] ORTHO-P (NAOP)
- [ ] TOTAL-P (NATP)

DEMANDS

- [ ] COD (COD)
- [ ] TOC (DATOC)
- [ ] BOD5 (BOD5)
- [ ] CBOD5 (CBOD5)
- [ ] BOD20 (BOD2)
- [ ] CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- [ ] Non-Filterable Residue (RASS)
- [ ] Total Residue (RATS)
- [ ] Filterable Residue (RATDS)
- [ ] Non-Filterable Volatile Residue (RAVSS)
- [ ] Total Volatile Residue (RAVTS)
- [ ] Filterable Volatile Residue (RAVDS)
- [ ] Settable Matter (RASM)

GENERAL

- [ ] Color (GAC)
- [ ] Odor (GAO)
- [ ] Turbidity (GAT)
- [ ] PH (GAPH)
- [ ] Alkalinity (GAALK)
- [ ] Acidity (GAACID)
- [ ] Chloride (GACL)
- [ ] MBAS (GAMBAS)
- [ ] Phenols (SSI) (GAPHE)
- [ ] Phenols (PW) (GAPHEX)
- [ ] Hardness (GARHARD)
- [ ] Sulfate (GASO4)
- [ ] Oil & Grease (GAOG)
- [ ] Petroleum Hydrocarbons (GAPHC)
- [ ] Cyanide (GACN)
- [ ] Conductance (GACOND)
- [ ] Dissolved Oxy. (GADO)
- [ ] Fluoride (GAF)
- [ ] Fluoride w/Dist. (GAFD)
- [ ] Silica (GASI)
- [ ] Sulfide (GAS)

METALS

- [ ] Ag (MAAG)
- [ ] Al (MAAL)
- [ ] As (MBAS)
- [ ] Ba (MABA)
- [ ] Be (MABE)
- [ ] Ca (MACA)
- [ ] Cd (MACD)
- [ ] Cr-H (MACRH)
- [ ] Cr-T (MACR)
- [ ] Co (MACO)
- [ ] Cu (MACU)
- [ ] Fe (MAFE)
- [ ] Hg (MAHG)
- [ ] K (MAK)
- [ ] Mg (MAMG)
- [ ] Mn (MAMN)
- [ ] Na (MANA)
- [ ] Ni (MANI)
- [ ] Pb (MAPB)
- [ ] Sb (MBSB)
- [ ] Se (MBSE)
- [ ] Sn (MBSN)
- [ ] Ti (MBTI)
- [ ] Tl (MBTL)
- [ ] Zn (MAZN)

ORGANICS

- [ ] EPA 601 (VO601)
- [ ] EPA 602 (VO602)
- [ ] EPA 612 (VO612)*
- [X] EPA 624 (VO624)*
- [ ] EPA 625 (VO625)
- [ ] EPA 625 Base Neut. only (M625B)
- [ ] EPA 625 Acids only (M625A)
- [ ] EPA 503.1 (VO503)*
- [ ] PEST 1 Organochlorines and PCB's*
- [ ] PEST 2 Organophosphates
- [ ] PEST 3 Herbicides
- [ ] PEST 4 Drinking Water
- [ ] PCB's Only

OTHER

- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]
- [ ]

*A280 Analysis

ATTACHMENT I-18

1A

VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

DEP SAMPLE NO.

46363

Lab Name: N.J. DEPARTMENT OF HEALTH — Contract: NA — MW #6

Matrix: (soil/water) WATER — Lab Sample ID: 46363

Level: (low/med) LOW — Lab File ID: >H5960

Column: (packed) 1%SP1000 — Date Collected: 11/10/88

Dilution Factor: 1.00000 — Date Analyzed: 11/16/88

CAS NO.	COMPOUND	CONCENTRATION ug/L	Q
74-87-3	Chloromethane	3.	IU
74-83-9	Bromomethane	2.	IU
75-01-4	Vinyl Chloride	3.	IU
75-00-3	Chloroethane	2.	IU
75-09-2	Methylene Chloride	2.	IU
75-69-4	Trichlorofluoromethane	.4	IJ
75-35-4	1,1-Dichloroethene	2.	IU
75-34-3	1,1-Dichloroethane	.7	IJ
156-60-5	(trans) 1,2-Dichloroethene	.2	IJ
67-66-3	Chloroform	2.	IU
107-02-2	1,2-Dichloroethane	2.	IU
71-55-6	1,1,1-Trichloroethane	.5	IJB
56-23-5	Carbon Tetrachloride	2.	IU
75-27-4	Bromodichloromethane	2.	IU
78-87-5	1,2-Dichloropropane	2.	IU
10061-01-5	(cis) 1,3-Dichloropropene	2.	IU
79-01-6	Trichloroethene	2.	IU
124-48-1	Dibromochloromethane	2.	IU
79-00-5	1,1,2-Trichloroethane	2.	IU
71-43-2	Benzene	.3	IJ
10061-02-6	(trans) 1,3-Dichloropropene	2.	IU
110-75-5	2-Chloroethylvinyl ether	2.	IU
75-25-2	Bromoform	2.	IU
127-18-4	Tetrachloroethene	1.	IJ
79-34-5	1,1,2,2-Tetrachloroethane	2.	IU
108-88-3	Toluene	2.	IU
108-90-7	Chlorobenzene	2.	IU
100-41-4	Ethylbenzene	2.	IJ
541-73-1	1,3-Dichlorobenzene	2.	IU
95-50-1	1,2-Dichlorobenzene	2.	IU
106-46-7	1,4-Dichlorobenzene	3.	IU

FORM I VOA

Analyst Richard L. Whitehill — Richard L. Whitehill — 11/17/88

Supervisor LINDA M Appel — Linda M. Appel — 11/23/88

REPORT SUBMITTED
ATTACHMENT I-17
DEC 6 1988
NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

New Jersey State Dep[redacted]ent of Health
Public Health and Environ[redacted]ntal Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample N[redacted]r

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

[redacted]ampling Point/Station Identification Number: [redacted]11 Shapes

[redacted]ampling Site/Facility/Supply/Location: MW #3

[redacted]tre[redacted]

[redacted]unicipality: [redacted]Delan Twp

[redacted]ounty: [redacted]Hunterdon

Collection Date (MM/DD/YY): 11-07-88

Collection Time (Military): 1430

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☐ Industrial ☐ Raw ☐ Effluent
- ☒ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Field Sample Number: 4636

Chain of Custody: ☒ Yes ☐ No

Data Package: ☐ Tier II ☒ Tier I

Retain Sample: ☐ Yes ☒ No

AGENCY INFORMATION

[redacted]ubmitting Agency: NJ Dep-Dwr-SBRE

Sample Collector: Nick Sodano C. Belosik

[redacted]tre[redacted] Address: [redacted]2 Chambers St Suite 301S

DEP Agency No.: 224

DEP Project Code: 1WD

[redacted]ity, State, Zip Code: [redacted]Lebanon NJ 08826

[redacted]omments

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

[redacted]ac[redacted]ab. Sample No.

[redacted]at[redacted]eceived

- [redacted]Fecal Coli (MPN)
- [redacted]Fecal Coli (MF)
- [redacted]al Streptococci (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Tot. Coli (MF)

DILUTIONS REQUESTED

[redacted]Fe[redacted] Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
[redacted]To[redacted] Coli								
[redacted]Fecal S[redacted]p.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- [redacted]N02-N (NAN02N)
- [redacted]2 + N03-N (NAN03N)
- [redacted]3-N (NANH3N)
- TKN (NATKN)
- ORTHO-P (NAOP)
- [redacted]TAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

[redacted]BOD$_5$			
CBOD$_5$			
[redacted]BOD$_{20}$			
[redacted]CBOD$_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL)
- ☐ As (MBAS)
- ☒ Ba (MABA)
- ☒ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☒ Cr-H (MACRH)
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☒ Cu (MACU)
- ☒ Fe (MAFE)
- ☒ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☒ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☒ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Ti (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (VO602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)* [illegible]
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☐ Note: Only do
- ☐ Pb if volume
- ☐ allows otherwise
- ☐ delete Pb
- ☐
- ☐
- ☐
- ☐
- ☐

*A280 Analysis

ATTACHMENT I-19

CHEM-44
FE[redacted]

Distribution. White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Laboratory Sample Number: 46366

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum	11,930	[illegible]	
Antimony			
Arsenic			
Barium	317	100 ppb	
Beryllium	5 K	100 limit?	
Cadmium			
Calcium			
Chromium, Hexavalent J EMT	5 K		
Chromium, Total	111	50 ppb	
Cobalt			
Copper	292	1000 ppb	
Iron	46,800	200 ppb	
Lead	16	50 ppb	
Magnesium			
Manganese	2600	50 ppb	
Mercury	0.2 K	50 ppb	
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Titanium			
Tin			
Zinc			

REPORT SUBMITTED
DEC 30 1

Supervisor (Print)	Signature	Date

NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY 8221

CHEM-14
MAY 86

DISTRIBUTION: White - Sub Agency; Canary - Cont. File; Pink - Metals Lab

ATTACHMENT I-2

New Jersey State Departme: Health
Public Health and Environmenta. .aboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample Number

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Aluminum Shapes

Sampling Site/Facility/Supply/Location: Pennsauken Landfill Well #4

Stream:

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 11/8/88

Collection Time (Military): 0900

Field Sample Number: 46368

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☐ Industrial ☐ Raw ☐ Effluent
- ☒ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency: DWR/So Enf

Sample Collector: Nick Sadano

Street Address: Suite 301 S 20 E. Clementon Rd

DEP Agency No.: 224

DEP Project Code: IQD

City, State, Zip Code

REJECTION OVERRIDE REQUESTED
Do not release until written notification is received from C

Comments

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	CRH
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	EH
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Bact. Lab. Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Tot. Coli (MF)
- ☐ Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Fecal Coli / Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep.	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ N02-N (NAN02N)
- ☐ N02 + N03-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL)
- ☐ As (MBAS)
- ☒ Ba (MABA)
- ☒ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☒ Cr-H (MACRH)
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☒ Cu (MACU)
- ☒ Fe (MAFE)
- ☒ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☒ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☒ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Ti (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (V0602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☐ Note: only do
- ☐ Pb if volume
- ☐ allows; other
- ☐ wise delete
- ☐ Pb
- ☐

KA280 Analysis

REPORT SUBMITTED
DEC 30 1
NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

CHEM-44
FEB-87

Distribution. White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

ATTACHMENT I-2

New Jersey State Department of Health
Public Health and Environmental Laboratories
CN 361, Trenton, NJ 08625-0361

AQUEOUS SAMPLE ANALYSIS REQUEST

Lab Sample Number

☒ Routine (9) ☐ Priority (2) ☐ Emergency (1)

SAMPLE INFORMATION

Sampling Point/Station Identification Number: Lumium Slopes

Sampling Site/Facility/Supply/Location: NJ #6 (river rd)

Municipality: Pennsauken

County: Camden

Collection Date (MM/DD/YY): 11 07 88

Collection Time (Military): 1320

Field Sample Number: 46364

Sample Type
- ☐ Stream/Surface
- ☐ Sewage ☐ Raw ☐ Effluent
- ☐ Industrial ☐ Raw ☐ Effluent
- ☒ Ground Water
- ☐ Potable-Raw
- ☐ Potable-Finished
- ☐ Private Well
- ☐ Ocean/Saline
- ☐ Other

Chain of Custody ☒ Yes ☐ No

Data Package ☐ Tier II ☒ Tier I

Retain Sample ☐ Yes ☒ No

AGENCY INFORMATION

Submitting Agency: DWR/SO ENF

Sample Collector: Nick Sodano/Cheryl Bob.

Street Address: Suite 301 S, 20 E Clementon Rd

DEP Agency No.: 224

DEP Project Code: 1QD

State Zip Code: Gibbsboro NJ 08026

Comments

Field Information

Water Temp °C (P00010)		Stream Flow-CFS (P00061)	
Do-Winkler (P00300)		Gage Height-Ft. (P00065)	
Do-Probe (P00299)		Spec. Cond. @ 25°C (P00095)	
pH (Field) (P00400)		Salinity (P00480)	
Sample Depth Ft. (P00003)		Tide Stage (P70211)	

ANALYSIS REQUESTS

BACTERIOLOGY

Lab Sample No.

Date Received

- ☐ Fecal Coli (MPN)
- ☐ Tot. Coli (MPN)
- ☐ Fecal Coli (MF)
- ☐ Tot. Coli (MF)
- ☐ Fecal Streptococci (MPN)

DILUTIONS REQUESTED

Total Coli	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10
Fecal Strep	10	1	-1 10	-2 10	-3 10	-4 10	-5 10	-6 10

NUTRIENTS

- ☐ NO2 (NAN02N)
- ☐ NO3-N (NAN03N)
- ☐ NH3-N (NANH3N)
- ☐ TKN (NATKN)
- ☐ ORTHO-P (NAOP)
- ☐ TOTAL-P (NATP)

DEMANDS

- ☐ COD (COD)
- ☐ TOC (DATOC)
- ☐ BOD5 (BOD5)
- ☐ CBOD5 (CBOD5)
- ☐ BOD20 (BOD2)
- ☐ CBOD20 (CBOD2)

BOD DILUTIONS REQUESTED

BOD_5			
$CBOD_5$			
BOD_{20}			
$CBOD_{20}$			

RESIDUES

- ☐ Non-Filterable Residue (RASS)
- ☐ Total Residue (RATS)
- ☐ Filterable Residue (RATDS)
- ☐ Non-Filterable Volatile Residue (RAVSS)
- ☐ Total Volatile Residue (RAVTS)
- ☐ Filterable Volatile Residue (RAVDS)
- ☐ Settable Matter (RASM)

GENERAL

- ☐ Color (GAC)
- ☐ Odor (GAO)
- ☐ Turbidity (GAT)
- ☐ PH (GAPH)
- ☐ Alkalinity (GAALK)
- ☐ Acidity (GAACID)
- ☐ Chloride (GACL)
- ☐ MBAS (GAMBAS)
- ☐ Phenols (SSI) (GAPHE)
- ☐ Phenols (PW) (GAPHEX)
- ☐ Hardness (GARHARD)
- ☐ Sulfate (GASO4)
- ☐ Oil & Grease (GAOG)
- ☐ Petroleum Hydrocarbons (GAPHC)
- ☐ Cyanide (GACN)
- ☐ Conductance (GACOND)
- ☐ Dissolved Oxy. (GADO)
- ☐ Fluoride (GAF)
- ☐ Fluoride w/Dist. (GAFD)
- ☐ Silica (GASI)
- ☐ Sulfide (GAS)

METALS

- ☐ Ag (MAAG)
- ☒ Al (MAAL)
- ☐ As (MBAS)
- ☒ Ba (MABA)
- ☒ Be (MABE)
- ☐ Ca (MACA)
- ☐ Cd (MACD)
- ☒ Cr-H (MACRH)
- ☒ Cr-T (MACR)
- ☐ Co (MACO)
- ☒ Cu (MACU)
- ☒ Fe (MAFE)
- ☒ Hg (MAHG)
- ☐ K (MAK)
- ☐ Mg (MAMG)
- ☒ Mn (MAMN)
- ☐ Na (MANA)
- ☐ Ni (MANI)
- ☒ Pb (MAPB)
- ☐ Sb (MBSB)
- ☐ Se (MBSE)
- ☐ Sn (MBSN)
- ☐ Ti (MBTI)
- ☐ Tl (MBTL)
- ☐ Zn (MAZN)

ORGANICS

- ☐ EPA 601 (VO601)
- ☐ EPA 602 (V0602)
- ☐ EPA 612 (VO612)*
- ☐ EPA 624 (VO624)*
- ☐ EPA 625 (VO625)
- ☐ EPA 625 Base Neut. only (M625B)
- ☐ EPA 625 Acids only (M625A)
- ☐ EPA 503.1 (VO503)*
- ☐ PEST 1 Organochlorines and PCB's*
- ☐ PEST 2 Organophosphates
- ☐ PEST 3 Herbicides
- ☐ PEST 4 Drinking Water
- ☐ PCB's Only

OTHER

- ☐ NOTE: only do
- ☐ Pb if volume
- ☐ allows; otherwise
- ☐
- ☐ delete Pb
- ☐
- ☐

*A280 Analysis

ATTACHMENT I-22

Distribution: White-Submitting Agency; Canary-Chem. Lab. Central File; Pink-Bacteriology Lab; Gold-Sample Collector

P8912

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Laboratory Sample Number: 46364

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb) SDW MCL	Method Blank Result (ppb)
Aluminum	3440	No Limit ?	
Antimony			
Arsenic			
Barium	86	1000 ppb	
Beryllium	5K	No limit	
Cadmium			
Calcium			
Chromium, Hexavalent J Exceeded Holding time	5K		
Chromium, Total	89	50 ppb	
Cobalt			
Copper	35	1000 ppb	
Iron	8600	300 ppb	
Lead	14	50 ppb	
Magnesium			
Manganese	720	50 ppb	
Mercury	0.5	2.0 ppb	
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Titanium			
Tin			
Zinc			

REPORT SUBMITTED
DEC 26 [illegible]

Supervisor (Print)	Signature	Date

NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

CHEM-14
MAY 86

DISTRIBUTION: White - Sub Agency; Canary - Cont. File; Pink - Metals Lab

P8221

ATTACHMENT I-23

NEW JERSEY STATE DEPARTMENT OF HEALTH
PUBLIC HEALTH AND ENVIRONMENTAL LABORATORIES

METAL ANALYSIS RESULTS

Laboratory Sample Number: 46368

ANALYSIS	Sample Concentration (ppb)	Minimum Detection Level (ppb)	Method Blank Result (ppb)
Aluminum	3060		
Antimony			
Arsenic			
Barium	55		
Beryllium	5 K		
Cadmium			
Calcium			
Chromium, Hexavalent J EHT	1095		
Chromium, Total	1000		
Cobalt			
Copper	28		
Iron	3600		
Lead	16		
Magnesium			
Manganese	600		
Mercury	0.5		
Nickel			
Potassium			
Selenium			
Silver			
Sodium			
Thallium			
Titanium			
Tin			
Zinc			

REPORT SUBMITTE
DEC 30 1

Supervisor (Print)	Signature	Date
		NJDOH ENVIRONMENTAL CHEMISTRY LABORATORY

CHEM-14
MAY 86

DISTRIBUTION: White - Sub Agency; Canary - Cont. File; Pink - Metals Lab

P8221

ATTACHMENT I-24

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

MW-1-55

LEASE TYPE OR PRINT WITH BALLPOINT PEN

CILITY NAME Aluminum Shapes, Inc. | SW ID NO.

B NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 0 - 6	8 9 0 3 3 1	7 7 1 7 5	

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 0 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	20.0	K
	X			X			X			X	Benzene	UG/L	3 4 0 3 0	7.2	
	X			X			X			X	Bromoform	UG/L	3 2 1 0 4	5.0	K
	X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 0 2	5.0	K
	X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
	X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
	X			X			X			X	Chloroform	UG/L	3 2 1 0 6	5.0	K
	X			X			X			X	1,1-Dichloroethane	UG/L	3 4 4 9 6	5.0	K
	X			X			X			X	1,2-Dichloroethane	UG/L	3 4 5 3 1	5.0	K
	X			X			X			X	1,1-Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
	X			X			X			X	1,2-Dichloropropane	UG/L	3 4 5 4 1	5.0	K
	X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
	X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5.0	K
	X			X			X			X	1,1,2,2-Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
	X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
	X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
	X			X			X			X	1,1,1-Trichloroethane	UG/L	3 4 5 0 6	14.0	
	X			X			X			X	1,1,2-Trichloroethane	UG/L	3 4 5 1 1	5.0	K
	X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
	X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
	X			X			X			X	Acrolein	UG/L	3 4 2 1 0	20.0	K
	X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	10.0	K
	X			X			X			X	2-Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
	X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5.0	K
	X			X			X			X	1,3-Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
	X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
	X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
	X			X			X			X	1,2-trans-Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT 2-25

VWX-017 P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

MW-1-55

ASE TYPE OR PRINT WITH BALLPOINT PEN

ILITY NAME Aluminum Shapes, Inc. | SW ID NO.

NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. / MO. / DAY	NJ LAB CERT. NO.	WQM USE
U	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 0 - 6	8 9 0 3 3 1	7 7 1 7 5	

E SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 6.1 8.9 (MO. YR.) TO 1.2 8.9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X	PCB-1242	ug/l	39496	0.5	K
X			X			X			X	PCB-1254	ug/l	39504	0.5	K
X			X			X			X	PCB-1221	ug/l	39488	0.5	K
X			X			X			X	PCB-1232	ug/l	39492	0.5	K
X			X			X			X	PCB-1248	ug/l	39500	0.5	K
X			X			X			X	PCB-1260	ug/l	39508	0.5	K
X			X			X			X	PCB-1016	ug/l	34672	0.5	K
X			X			X			X	Phenanthrene	ug/l	34461	0.0	K
X			X			X			X	Pyrene	ug/l	34469	0.0	K
X			X			X			X	1,2,4-Trichlorobenzene	ug/l	34552	0.0	K
X			X			X			X	Acenaphthene	ug/l	34205	0.0	K
X			X			X			X	Acenaphthylene	ug/l	34200	0.0	K
X			X			X			X	Anthracene	ug/l	34220	0.0	K
X			X			X			X	Benzidine	ug/l	39120	0.0	K
X			X			X			X	Benz(a)anthracene	ug/l	34526	0.0	K
X			X			X			X	Benzo(a)pyrene	ug/l		0.0	K
X			X			X			X	3,4-Benzofluoranthane	ug/l		0.0	K
X			X			X			X	Benzo(ghi)perylene	ug/l	34521	0.0	K
X			X			X			X	Benzo(k)fluoranthene	ug/l	34242	0.0	K
X			X			X			X	Bis(2-chloroethoxy)methane	ug/l	34278	0.0	K
X			X			X			X	Bis(2-chloroethyl) Ether	ug/l	34273	0.0	K
X			X			X			X	Bis(2-Chloroisopropyl) Ether	ug/l	34283	0.0	K
X			X			X			X	Bis(2-ethylhexyl) Phthalate	ug/l	39100	269.0	
X			X			X			X	4-Bromophenyl Phenyl Ether	ug/l	34636	0.0	K
X			X			X			X	Butylbenzyl Phthalate	ug/l		0.0	K
X			X			X			X	2-Chloronaphthalene	ug/l	34581	0.0	K

ALUE CODING RULES AND
EMARK CODES ON REVERSE

ATTACHMENT I-26

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

EASE TYPE OR PRINT WITH BALLPOINT PEN

MW-2-55

LITY NAME: Aluminum Shapes, Inc.

ISW ID NO.:

AB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 9 - 9	8 9 0 3 3 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	20.0	K
	X			X			X			X	Benzene	UG/L	3 4 0 3 0	5.0	K
	X			X			X			X	Bromoform	UG/L	3 2 1 0 4	5.0	K
	X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 0 2	5.0	K
	X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
	X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
	X			X			X			X	Chloroform	UG/L	3 2 1 0 6	5.0	K
	X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.0	K
	X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.0	K
	X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
	X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
	X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
	X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	240.0	
	X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
	X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
	X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
	X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	7.8	
	X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
	X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
	X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
	X			X			X			X	Acrolein	UG/L	3 4 2 1 0	20.0	K
	X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	10.0	K
	X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
	X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5.0	K
	X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
	X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
	X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
	X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT I-27

n VWX-017 P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

ASE TYPE OR PRINT WITH BALLPOINT PEN MW-2-55

CILITY NAME Aluminum Shapes, Inc. SW ID NO.

B NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. / MO. / DAY	NJ LAB CERT. NO.	WQM USE
U	NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 9 - 9	8 9 0 3 3 1	7 7 1 7 5	

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	PCB-1242	ug/l	39496	0.5	K
	X			X			X			X	PCB-1254	ug/l	39504	0.5	K
	X			X			X			X	PCB-1221	ug/l	39488	0.5	K
	X			X			X			X	PCB-1232	ug/l	39492	0.5	K
	X			X			X			X	PCB-1248	ug/l	39500	0.5	K
	X			X			X			X	PCB-1260	ug/l	39508	0.5	K
	X			X			X			X	PCB-1016	ug/l	34671	0.5	K
	X			X			X			X	Phenanthrene	ug/l	34461	0.0	K
	X			X			X			X	Pyrene	ug/l	34469	0.0	K
	X			X			X			X	1,2,4-Trichlorobenzene	ug/l	34551	0.0	K
	X			X			X			X	Acenaphthene	ug/l	34205	0.0	K
	X			X			X			X	Acenaphthylene	ug/l	34200	0.0	K
	X			X			X			X	Anthracene	ug/l	34220	0.0	K
	X			X			X			X	Benzidine	ug/l	39120	0.0	K
	X			X			X			X	Benz(a)anthracene	ug/l	34526	0.0	K
	X			X			X			X	Benzo(a)pyrene	ug/l		0.0	K
	X			X			X			X	3,4-Benzofluoranthane	ug/l		0.0	K
	X			X			X			X	Benzo(ghi)perylene	ug/l	34521	0.0	K
	X			X			X			X	Benzo(k)fluoranthene	ug/l	34242	0.0	K
	X			X			X			X	Bis(2-chloroethoxy)methane	ug/l	34278	0.0	K
	X			X			X			X	Bis(2-chloroethyl) Ether	ug/l	34273	0.0	K
	X			X			X			X	Bis(2-Chloroisopropyl) Ether	ug/l	34283	0.0	K
	X			X			X			X	Bis(2-ethylhexyl) Phthalate	ug/l	39100	257.0	
	X			X			X			X	4-Bromophenyl Phenyl Ether	ug/l	34636	0.0	K
	X			X			X			X	Butylbenzyl Phthalate	ug/l		0.0	K
	X			X			X			X	2-Chloronaphthalene	ug/l	34561	0.0	K

VALUE CODING RULES AND
R MARK CODES ON REVERSE

ATTACHMENT I-28

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-3-65

FACILITY NAME Aluminum Shapes, Inc.

ISW ID NO.

LAB NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
7	NJ0031516	31-28181-1	890331	77115	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 10/89 (MO. YR.) TO 11/89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X		X		X		X			Acrylonitrile	UG/L	34211	200.0	K
	X		X		X		X		X			Benzene	UG/L	34030	5.0	K
	X		X		X		X		X			Bromoform	UG/L	32104	5.0	K
	X		X		X		X		X			Carbon Tetrachloride	UG/L	32102	5.0	K
	X		X		X		X		X			Chlorobenzene	UG/L	34301	5.0	K
	X		X		X		X		X			Chlorodibromomethane	UG/L	34306	5.0	K
	X		X		X		X		X			Chloroform	UG/L	32106	5.0	K
	X		X		X		X		X			1,1-Dichloroethane	UG/L	34496	5.0	K
	X		X		X		X		X			1,2-Dichloroethane	UG/L	34531	5.0	K
	X		X		X		X		X			1,1-Dichloroethylene	UG/L	34510	5.0	K
	X		X		X		X		X			1,2-Dichloropropane	UG/L	34541	5.0	K
	X		X		X		X		X			Ethylbenzene	UG/L	34371	5.0	K
	X		X		X		X		X			Methylene Chloride	UG/L	34423	16.0	
	X		X		X		X		X			1,1,2,2-Tetrachloroethane	UG/L	34516	5.0	K
	X		X		X		X		X			Tetrachloroethylene	UG/L	34475	5.0	K
	X		X		X		X		X			Toluene	UG/L	34011	5.0	K
	X		X		X		X		X			1,1,1-Trichloroethane	UG/L	34506	5.0	K
	X		X		X		X		X			1,1,2-Trichloroethane	UG/L	34511	5.0	K
	X		X		X		X		X			Trichloroethylene	UG/L	39118	5.0	K
	X		X		X		X		X			Vinyl Chloride	UG/L	39117	10.0	K
	X		X		X		X		X			Acrolein	UG/L	34210	200.0	K
	X		X		X		X		X			Chloroethane	UG/L	34311	10.0	K
	X		X		X		X		X			2-Chloroethylvinyl Ether	UG/L	34576	5.0	K
	X		X		X		X		X			Dichlorobromomethane	UG/L	32105	5.0	K
	X		X		X		X		X			1,3-Dichloropropylene	UG/L	34699	5.0	K
	X		X		X		X		X			Methyl Bromide	UG/L	34413	10.0	K
	X		X		X		X		X			Methyl Chloride	UG/L	34418	10.0	K
	X		X		X		X		X			1,2-trans-Dichloroethylene	UG/L	34546	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

ATTACHMENT I-29

VWX-017 P2

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — MONITORING WELL REPORT

ASE TYPE OR PRINT WITH BALLPOINT PEN

MW-3-65

LITY NAME: Aluminum Shapes, Inc.

SW ID NO.

NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. / MO. / DAY	NJ LAB CERT. NO.	WQM USE
U	NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 8 - 1	8 9 0 3 3 1	7 7 1 7 5	

HE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X		X				X			X	PCB-1242	ug/l	39495	0.5	K
X		X				X			X	PCB-1254	ug/l	39504	0.5	K
X		X				X			X	PCB-1221	ug/l	39488	0.5	K
X		X				X			X	PCB-1232	ug/l	39492	0.5	K
X		X				X			X	PCB-1248	ug/l	39500	0.5	K
X		X				X			X	PCB-1260	ug/l	39508	0.5	K
X		X				X			X	PCB-1016	ug/l	34671	0.5	K
X		X				X			X	Phenanthrene	ug/l	34461	10.0	K
X		X				X			X	Pyrene	ug/l	34469	10.0	K
X		X				X			X	1,2,4-Trichlorobenzene	ug/l	34551	10.0	K
X		X				X			X	Acenaphthene	ug/l	34205	10.0	K
X		X				X			X	Acenaphthylene	ug/l	34200	10.0	K
X		X				X			X	Anthracene	ug/l	34220	10.0	K
X		X				X			X	Benzidine	ug/l	39120	10.0	K
X		X				X			X	Benz(a)anthracene	ug/l	34526	10.0	K
X		X				X			X	Benzo(a)pyrene	ug/l		10.0	K
X		X				X			X	3,4-Benzofluoranthane	ug/l		10.0	K
X		X				X			X	Benzo(ghi)perylene	ug/l	34521	10.0	K
X		X				X			X	Benzo(k)fluoranthene	ug/l	34242	10.0	K
X		X				X			X	Bis(2-chloroethoxy)methane	ug/l	34278	10.0	K
X		X				X			X	Bis(2-chloroethyl) Ether	ug/l	34273	10.0	K
X		X				X			X	Bis(2-Chloroisopropyl) Ether	ug/l	34283	10.0	K
X		X				X			X	Bis(2-ethylhexyl) Phthalate	ug/l	39100	50.0	
X		X				X			X	4-Bromophenyl Phenyl Ether	ug/l	34636	10.0	K
X		X				X			X	Butylbenzyl Phthalate	ug/l		10.0	K
X		X				X			X	2-Chloronaphthalene	ug/l	34581	10.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT I-39

WX-015 A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — MONITORING WELL REPORT

ASE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

ITY NAME Aluminum Shapes, Inc. | SW ID NO.

NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
R	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 1 - 4	8 9 0 3 3 1	7 7 1 7 5	
1	2 — 8	9 — 16	17 — 22	23 — 27	28

E SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 1 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		36.33	
	X			X			X			X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		34.23	
	X			X			X			X	Depth to water table from top of casing prior to sampling with cap off	feet to nearest .01	82546	53.13	
	X			X			X			X	Depth to water table from original ground level prior to sampling	feet to nearest .01	72019		
	X			X			X			X	Arsenic, Dissolved	UG/L as As	01010	.50	K
	X			X			X			X	Barium, Dissolved	UG/L as Ba	01005	152.0	
											Biochemical Oxygen Demand - 5 Day	MG/L	01031	1.	
	X			X			X			X	Cadmium, Dissolved	UG/L as Cd	01025	3.6	
											Chloride, Dissolved	UG/L as Cl	82295		
	X			X			X			X	Chromium, Dissolved	UG/L as Cr	01030	11.0	
	X			X			X			X	Chromium, Dissolved, Hexavalent	UG/L as Cr	01220	82.0	
	X			X			X			X	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341	63.0	
											Coliform Group	N/100 ML	74056		
											Color	Pt - Co	00080		
	X			X			X			X	Copper, Dissolved	UG/L as Cu	01040	40.0	K
	X			X			X			X	Cyanide, Total	MG/L as CN	00720	0.005	K
											Endrin, Total	UG/L	39320		
											Fluoride, Dissolved	MG/L as F	00950		
											Gross Alpha, Dissolved	Pc/L	01530		
											Gross Beta, Dissolved	Pc/L	03530		
											Hardness, Total as $CaCO_3$	MG/L	00900		
											Iron, Dissolved	UG/L as Fe	01046		
	X			X			X			X	Lead, Dissolved	UG/L as Pb	01049	2.0	K
											Lindane, Total	UG/L	39782		
	X			X			X			X	Manganese, Dissolved	UG/L	01056	290.0	
	X			X			X			X	Mercury, Dissolved	UG/L	71890	.02	K

VALUE CODING RULES AND
EMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-31

WX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

SE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

TY NAME: Aluminum Shapes, Inc.

SW ID NO.:

AME: BCM Laboratory Division

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	8 9 0 3 3 1	7 7 1 7 5	

CHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X		Acrylonitrile	UG/L	3 4 2 1 1 5	20.0	K
X			X			X			X		Benzene	UG/L	3 4 0 3 0	5.0	K
X			X			X			X		Bromoform	UG/L	3 2 1 1 0 4	5.0	K
X			X			X			X		Carbon Tetrachloride	UG/L	3 2 1 1 0 2	5.0	K
X			X			X			X		Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
X			X			X			X		Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
X			X			X			X		Chloroform	UG/L	3 2 1 1 0 6	5.0	K
X			X			X			X		1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.0	K
X			X			X			X		1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.0	K
X			X			X			X		1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
X			X			X			X		1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
X			X			X			X		Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
X			X			X			X		Methylene Chloride	UG/L	3 4 4 2 3	194.0	
X			X			X			X		1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
X			X			X			X		Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
X			X			X			X		Toluene	UG/L	3 4 0 1 2	5.0	K
X			X			X			X		1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	9.7	
X			X			X			X		1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
X			X			X			X		Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
X			X			X			X		Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
X			X			X			X		Acrolein	UG/L	3 4 2 1 0	20.0	K
X			X			X			X		Chloroethane	UG/L	3 4 3 1 1	10.0	K
X			X			X			X		2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
X			X			X			X		Dichlorobromomethane	UG/L	3 2 1 1 0 5	5.0	K
X			X			X			X		1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
X			X			X			X		Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
X			X			X			X		Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
X			X			X			X		1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

ATTACHMENT I-31

Form VWX-016
1/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-1-55

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Aluminum Shapes, Inc.
SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 0 - 6	8 9 0 6 2 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	2 0 . 0	K
		X			X			X			X	Benzene	UG/L	3 4 0 3 0	5 . 4	
		X			X			X			X	Bromoform	UG/L	3 2 1 0 4	5 . 0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 0 2	5 . 0	K
		X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5 . 0	K
		X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5 . 0	K
		X			X			X			X	Chloroform	UG/L	3 2 1 0 6	5 . 0	K
		X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5 . 0	K
		X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5 . 0	K
		X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5 . 0	K
		X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5 . 0	K
		X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5 . 0	K
		X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5 . 0	K
		X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5 . 0	K
		X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5 . 0	K
		X			X			X			X	Toluene	UG/L	3 4 0 1 2	5 . 0	K
		X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	5 . 0	K
		X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5 . 0	K
		X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5 . 0	K
		X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	1 0 . 0	K
		X			X			X			X	Acrolein	UG/L	3 4 2 1 0	2 0 . 0	K
		X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	1 0 . 0	K
		X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5 . 0	K
		X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5 . 0	K
		X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5 . 0	K
		X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	1 0 . 0	K
		X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	1 0 . 0	K
		X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5 . 0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-33

Form VWX-015 A
(6/83)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-6-60

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

IR	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	8 9 0 6 2 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL: to nearest .01		36.33	
	X			X			X			X	Elevation of original ground level (as specified in well completion report)	feet MSL: to nearest .01		34.23	
	X			X			X			X	Depth to water table from top of casing prior to sampling with cap off	feet: to nearest .01	52456	52.05	
	X			X			X			X	Depth to water table from original ground level prior to sampling	feet: to nearest .01	72019	49.95	
	X			X			X			X	Arsenic, Dissolved	UG/L as As	01010	5.0	K
	X			X			X			X	Barium, Dissolved	UG/L as Ba	01010	36.0	
											Biochemical Oxygen Demand - 5 Day	MG/L	00311		
	X			X			X			X	Cadmium, Dissolved	UG/L as Cd	01015	0.5	
											Chloride, Dissolved	UG/L as Cl	82295		
	X			X			X			X	Chromium, Dissolved	UG/L as Cr	01030	69.0	
	X			X			X			X	Chromium, Dissolved, Hexavalent	UG/L as Cr	01220	50.0	
	X			X			X			X	Chemical Oxygen Demand (COD), Dissolved	MG/L	00341	61.0	
											Coliform Group	N/100 ML	74056		
											Color	Pt - Co	00080		
	X			X			X			X	Copper, Dissolved	UG/L as Cu	01040	20.0	K
	X			X			X			X	Cyanide, Total	MG/L as CN	00720	0.005	K
											Endrin, Total	UG/L	39290		
											Fluoride, Dissolved	MG/L as F	00950		
											Gross Alpha, Dissolved	Pc/L	01503		
											Gross Beta, Dissolved	Pc/L	03505		
											Hardness, Total as $CaCO_3$	MG/L	00900		
											Iron, Dissolved	UG/L as Fe	01046		
	X			X			X			X	Lead, Dissolved	UG/L as Pb	01049	2.0	K
											Lindane, Total	UG/L	39278		
	X			X			X			X	Manganese, Dissolved	UG/L	01056	76.0	
	X			X			X			X	Mercury, Dissolved	UG/L	71890	0.2	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

ATTACHMENT I-34

Form VWX-016
3/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-5-60

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Aluminum Shapes, Inc. — SW ID NO.

LAB NAME: BCM Laboratory Division

T (1)	NJPDES NO. (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. MO. DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)
	NJ 0013456	31-2751-4	890621	77175	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 89 (MO. YR.) TO 12 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X		X		X		X			Acrylonitrile	UG/L	34211 5	20.0	K
	X		X		X		X		X			Benzene	UG/L	34030	20.0	
	X		X		X		X		X			Bromoform	UG/L	32110 4	5.0	K
	X		X		X		X		X			Carbon Tetrachloride	UG/L	32110 2	5.0	K
	X		X		X		X		X			Chlorobenzene	UG/L	34310 1	5.0	K
	X		X		X		X		X			Chlorodibromomethane	UG/L	34310 6	5.0	K
	X		X		X		X		X			Chloroform	UG/L	32110 6	5.0	K
	X		X		X		X		X			1, 1 - Dichloroethane	UG/L	34419 6	5.0	K
	X		X		X		X		X			1, 2 - Dichloroethane	UG/L	34513 1	5.0	K
	X		X		X		X		X			1, 1 - Dichloroethylene	UG/L	34510 1	5.0	K
	X		X		X		X		X			1, 2 - Dichloropropane	UG/L	34541 1	5.0	K
	X		X		X		X		X			Ethylbenzene	UG/L	34371 1	5.0	K
	X		X		X		X		X			Methylene Chloride	UG/L	34421 3	5.0	K
	X		X		X		X		X			1, 1, 2, 2 - Tetrachloroethane	UG/L	34511 6	5.0	K
	X		X		X		X		X			Tetrachloroethylene	UG/L	34417 5	5.0	K
	X		X		X		X		X			Toluene	UG/L	34011 2	5.0	K
	X		X		X		X		X			1, 1, 1 - Trichloroethane	UG/L	34510 6	5.0	K
	X		X		X		X		X			1, 1, 2 - Trichloroethane	UG/L	34511 1	5.0	K
	X		X		X		X		X			Trichloroethylene	UG/L	39118 0	5.0	K
	X		X		X		X		X			Vinyl Chloride	UG/L	39117 5	10.0	K
	X		X		X		X		X			Acrolein	UG/L	34211 0	20.0	K
	X		X		X		X		X			Chloroethane	UG/L	34311 1	10.0	K
	X		X		X		X		X			2 - Chloroethylvinyl Ether	UG/L	34517 6	5.0	K
	X		X		X		X		X			Dichlorobromomethane	UG/L	32110 5	5.0	K
	X		X		X		X		X			1, 3 - Dichloropropylene	UG/L	34619 9	5.0	K
	X		X		X		X		X			Methyl Bromide	UG/L	34411 3	10.0	K
	X		X		X		X		X			Methyl Chloride	UG/L	34411 8	10.0	K
	X		X		X		X		X			1, 2 - trans - Dichloroethylene	UG/L	34516	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-35

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-2-55

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 9 - 9	8 9 0 9 2 2	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 07 89 (MO. YR.) TO 09 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X			X			X		Acrylonitrile	UG/L	34215	20.0	K
	X		X			X			X		Benzene	UG/L	34030	5.0	K
	X		X			X			X		Bromoform	UG/L	32104	5.0	K
	X		X			X			X		Carbon Tetrachloride	UG/L	32102	5.0	K
	X		X			X			X		Chlorobenzene	UG/L	34301	5.0	K
	X		X			X			X		Chlorodibromoethane	UG/L	34306	5.0	K
	X		X			X			X		Chloroform	UG/L	32106	5.0	K
	X		X			X			X		1,1-Dichloroethane	UG/L	34496	5.0	K
	X		X			X			X		1,2-Dichloroethane	UG/L	34531	5.0	K
	X		X			X			X		1,1-Dichloroethylene	UG/L	34501	5.0	K
	X		X			X			X		1,2-Dichloropropane	UG/L	34541	5.0	K
	X		X			X			X		Ethylbenzene	UG/L	34371	5.0	K
	X		X			X			X		Methylene Chloride	UG/L	34423	5.0	K
	X		X			X			X		1,1,2,2-Tetrachloroethane	UG/L	34516	5.0	K
	X		X			X			X		Tetrachloroethylene	UG/L	34475	5.0	K
	X		X			X			X		Toluene	UG/L	34012	5.0	K
	X		X			X			X		1,1,1-Trichloroethane	UG/L	34506	5.1	
	X		X			X			X		1,1,2-Trichloroethane	UG/L	34511	5.0	K
	X		X			X			X		Trichloroethylene	UG/L	39180	5.0	K
	X		X			X			X		Vinyl Chloride	UG/L	39175	10.0	K
	X		X			X			X		Acrolein	UG/L	34210	20.0	K
	X		X			X			X		Chloroethane	UG/L	34311	10.0	K
	X		X			X			X		2-Chloroethylvinyl Ether	UG/L	34576	5.0	K
	X		X			X			X		Dichloropromomethane	UG/L	32105	5.0	K
	X		X			X			X		1,3-Dichloropropylene	UG/L	34699	5.0	K
	X		X			X			X		Methyl Bromide	UG/L	34413	10.0	K
	X		X			X			X		Methyl Chloride	UG/L	34418	10.0	K
	X		X			X			X		1,2-trans-Dichloroethylene	UG/L	34546	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT I-36

VWX-015 A
4/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. / MO. / DAY	NJ LAB CERT. NO.	WQM USE
R	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	8 9 0 9 2 2	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 7 8 9 (MO. YR.) TO 0 9 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL to nearest .01		36.33	
		X			X			X			X	Elevation of original ground level (as specified in well completion report)	feet MSL to nearest .01		34.23	
		X			X			X			X	Depth to water table from top of casing prior to sampling with cap off	feet to nearest .01	8 2 5 4 6	50.01	
		X			X			X			X	Depth to water table from original ground level prior to sampling	feet to nearest .01	7 2 0 1 9		
		X			X			X			X	Arsenic, Dissolved	UG/L as As	0 1 0 0 0	5.0	K
		X			X			X			X	Barium, Dissolved	UG/L as Ba	0 1 0 0 5	127.0	
												Biochemical Oxygen Demand - 5 Day	MG/L	0 0 3 1 0		
		X			X			X			X	Cadmium, Dissolved	UG/L as Cd	0 1 0 2 5	0.5	
												Chloride, Dissolved	UG/L as Cl	8 2 2 9 5		
		X			X			X			X	Chromium, Dissolved	UG/L as Cr	0 1 0 3 0	359.0	
		X			X			X			X	Chromium, Dissolved, Hexavalent	UG/L as Cr	0 1 2 2 0	350.0	
		X			X			X			X	Chemical Oxygen Demand (COD), Dissolved	MG/L	0 0 3 4 1	232.0	
												Coliform Group	N/100 ML	7 4 0 5 6		
												Color	Pt - Co	0 0 0 8 0		
		X			X			X			X	Copper, Dissolved	UG/L as Cu	0 1 0 4 0	20.0	
		X			X			X			X	Cyanide, Total	MG/L as CN	0 0 7 2 0	0.005	K
												Endrin, Total	UG/L	3 9 3 9 0		
												Fluoride, Dissolved	MG/L as F	0 0 9 5 0		
												Gross Alpha, Dissolved	Pc/L	0 1 5 0 3		
												Gross Beta, Dissolved	Pc/L	0 3 5 0 3		
												Hardness, Total as $CaCO_3$	MG/L	0 0 9 0 0		
												Iron, Dissolved	UG/L as Fe	0 1 0 4 6		
		X			X			X			X	Lead, Dissolved	UG/L as Pb	0 1 0 4 9	2.0	K
												Lindane, Total	UG/L	3 9 7 8 2		
		X			X			X			X	Manganese, Dissolved	UG/L	0 1 0 5 6	384.0	
		X			X			X			X	Mercury, Dissolved	UG/L	7 1 8 9 0	0.2	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-37

Form VWX-016
(8/83)

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-2-60

FACILITY NAME: Aluminum Shapes, Inc.

SWID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ0034576	31-25901-4	890909212	77175	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 07 89 (MO. YR.) TO 09 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X		X		X			X		Acrylonitrile	UG/L	34211 5	210.0	K
	X		X		X		X			X		Benzene	UG/L	34410 3 0	210.0	
	X		X		X		X			X		Bromoform	UG/L	32110 4	5.0	K
	X		X		X		X			X		Carbon Tetrachloride	UG/L	32110 2	5.0	K
	X		X		X		X			X		Chlorobenzene	UG/L	34310 1 1	5.0	K
	X		X		X		X			X		Chlorodibromomethane	UG/L	34310 6	5.0	K
	X		X		X		X			X		Chloroform	UG/L	32110 6	5.0	K
	X		X		X		X			X		1,1-Dichloroethane	UG/L	34146 5 6	5.0	K
	X		X		X		X			X		1,2-Dichloroethane	UG/L	34155 3 1 1	5.0	K
	X		X		X		X			X		1,1-Dichloroethylene	UG/L	34510 1 1	5.0	K
	X		X		X		X			X		1,2-Dichloropropane	UG/L	34154 1 1	5.0	K
	X		X		X		X			X		Ethylbenzene	UG/L	34317 1 1	5.0	K
	X		X		X		X			X		Methylene Chloride	UG/L	34142 3	5.0	K
	X		X		X		X			X		1,1,2,2-Tetrachloroethane	UG/L	34511 6	5.0	K
	X		X		X		X			X		Tetrachloroethylene	UG/L	34417 5	5.0	K
	X		X		X		X			X		Toluene	UG/L	34011 2	5.0	K
	X		X		X		X			X		1,1,1-Trichloroethane	UG/L	34510 6	5.4	
	X		X		X		X			X		1,1,2-Trichloroethane	UG/L	34511 1 1	5.0	K
	X		X		X		X			X		Trichloroethylene	UG/L	39118 0	5.0	K
	X		X		X		X			X		Vinyl Chloride	UG/L	39117 5	10.0	K
	X		X		X		X			X		Acrolein	UG/L	34211 0	210.0	K
	X		X		X		X			X		Chloroethane	UG/L	34311 1	10.0	K
	X		X		X		X			X		2-Chloroethylvinyl Ether	UG/L	34517 6	5.0	K
	X		X		X		X			X		Dichlorobromomethane	UG/L	32110 5	5.0	K
	X		X		X		X			X		1,3-Dichloropropylene	UG/L	34169 9	5.0	K
	X		X		X		X			X		Methyl Bromide	UG/L	34141 3	10.0	K
	X		X		X		X			X		Methyl Chloride	UG/L	34141 8	10.0	K
	X		X		X		X			X		1,2-trans-Dichloroethylene	UG/L	34154 6	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

ATTACHMENT I-38

Form VWX-016
4/93

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-5-60

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

T	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
	NJ 0 0 3 4 5 7 6	3 1 - 2 7 5 1 - 4	8 9 0 9 2 2	7 7 1 7 5	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 7 8 9 (MO. YR.) TO 0 9 8 9 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X		X		X		X			Acrylonitrile	UG/L	3 4 2 1 1 5	2 0 . 0	K
	X		X		X		X		X			Benzene	UG/L	3 4 0 3 0	2 0 . 0	
	X		X		X		X		X			Bromoform	UG/L	3 2 1 0 4	5 . 0	K
	X		X		X		X		X			Carbon Tetrachloride	UG/L	3 2 1 0 2	5 . 0	K
	X		X		X		X		X			Chlorobenzene	UG/L	3 4 3 0 1	6 . 9	
	X		X		X		X		X			Chlorodibromomethane	UG/L	3 4 3 0 6	5 . 0	K
	X		X		X		X		X			Chloroform	UG/L	3 2 1 0 6	5 . 0	K
	X		X		X		X		X			1,1-Dichloroethane	UG/L	3 4 4 9 6	5 . 0	K
	X		X		X		X		X			1,2-Dichloroethane	UG/L	3 4 5 3 1	5 . 0	K
	X		X		X		X		X			1,1-Dichloroethylene	UG/L	3 4 5 0 1	5 . 0	K
	X		X		X		X		X			1,2-Dichloropropane	UG/L	3 4 5 4 1	5 . 0	K
	X		X		X		X		X			Ethylbenzene	UG/L	3 4 3 7 1	8 . 5	
	X		X		X		X		X			Methylene Chloride	UG/L	3 4 4 2 3	5 . 0	K
	X		X		X		X		X			1,1,2,2-Tetrachloroethane	UG/L	3 4 5 1 6	5 . 0	K
	X		X		X		X		X			Tetrachloroethylene	UG/L	3 4 4 7 5	5 . 0	K
	X		X		X		X		X			Toluene	UG/L	3 4 0 1 2	5 . 0	K
	X		X		X		X		X			1,1,1-Trichloroethane	UG/L	3 4 5 0 6	5 . 0	K
	X		X		X		X		X			1,1,2-Trichloroethane	UG/L	3 4 5 1 1	5 . 0	K
	X		X		X		X		X			Trichloroethylene	UG/L	3 9 1 8 0	5 . 0	K
	X		X		X		X		X			Vinyl Chloride	UG/L	3 9 1 7 5	1 0 . 0	K
	X		X		X		X		X			Acrolein	UG/L	3 4 2 1 0	2 0 . 0	K
	X		X		X		X		X			Chloroethane	UG/L	3 4 3 1 1	1 0 . 0	K
	X		X		X		X		X			2-Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5 . 0	K
	X		X		X		X		X			Dichlorobromomethane	UG/L	3 2 1 0 5	5 . 0	K
	X		X		X		X		X			1,3-Dichloropropylene	UG/L	3 4 6 9 9	5 . 0	K
	X		X		X		X		X			Methyl Bromide	UG/L	3 4 4 1 3	1 0 . 0	K
	X		X		X		X		X			Methyl Chloride	UG/L	3 4 4 1 8	1 0 . 0	K
	X		X		X		X		X			1,2-trans-Dichloroethylene	UG/L	3 4 5 4 6		

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

VALUE CODING RULES AND REMARK CODES ON REVERSE

ATTACHMENT I-39

Form VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

MW-6-55

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 7 5 1 - 5	8 9 0 9 2 2	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 07 89 (MO. YR.) TO 09 89 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 1 5	20.0	K
		X			X			X			X	Benzene	UG/L	3 4 0 3 0	6.7	
		X			X			X			X	Bromoform	UG/L	3 2 1 1 0 4	5.0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 1 0 2	5.0	K
		X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
		X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
		X			X			X			X	Chloroform	UG/L	3 2 1 1 0 6	5.0	K
		X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	11.0	
		X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.0	K
		X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
		X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
		X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	360.0	
		X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5.0	K
		X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
		X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
		X			X			X			X	Toluene	UG/L	3 4 0 1 2	260.0	
		X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	5.0	K
		X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
		X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
		X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
		X			X			X			X	Acrolein	UG/L	3 4 2 1 0	20.0	K
		X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	10.0	K
		X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
		X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5.0	K
		X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
		X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
		X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
		X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT I-40

TABLE 3

GROUNDWATER SAMPLING RESULTS
MONITORING WELLS MW-7 AND MW-8
FORMER UNDERGROUND STORAGE TANKS

ALUMINUM SHAPES, INC.

Parameter	September 1, 1989			November 3-4, 1989			Field Blank			Trip Blank	
	MW-7	MW-8	MW-8A(1) (duplicate)	MW-7(2)	MW-7(3) (duplicate)	MW-8	9/1/89	11/3/89	11/4/89	9/1/89	11/4/89
Volatile Organic Compounds (ug/l)											
Methylene Chloride	5.3 B	9.7 B	4.8 BJ	10	13	15	ND	2.9 J	1.8 J	5 B	2.1 J
Toluene	ND	1.0 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-trichloroethane	ND	2.1 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tentatively Identified Compounds											
Total Unknowns	ND	ND	ND	7	ND	ND	ND	7	ND	ND	ND
Acetone	ND	ND	ND	ND	ND	ND	ND	5	ND	ND	3.6
Base Neutral Compounds (ug/l)											
Bis(2-ethylhexyl)phthalate	9 BJ	64 B	58 B	374	5 J	60	21	6.6 J	4.0 J	6 J	2.9 J
N-nitrosodi- phenylamine	ND	8.9 J	ND	ND	ND	ND	ND	ND	ND	ND	ND
Tentatively Identified Compounds											
Total Unknowns	ND	ND	ND	13	ND	30	ND	ND	ND	ND	ND
Prometon	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND
Atrazine	ND	ND	ND	ND	6	ND	ND	ND	ND	ND	ND

Notes:
B Analyte found in blank as well as sample. It indicates possible/probable blank concentrations.
J Indicates an estimated value. Indicates the presence of compound that meets identification criteria but the result is less than the specified detection limit but greater than zero.
(1) This sample is designated MW-8A in accompanying laboratory QA/QC package.
(2) This sample is designated MW-7A in accompanying laboratory QA/QC package.
(3) This sample is designated MW-7B in accompanying laboratory QA/QC package.
ND Not detected

Source: BCM Engineers, Inc. (Project No. 00-5007-10)

0408r

ATTACHMENT 1-41

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-6-55

PRINT WITH BALLPOINT PEN

SW ID NO.

Aluminum Shapes. Inc.

BCM Laboratory Division

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
NJ 0 0 1 3 1 4 1 5 1 7 1 6 (2–8)	3 1 – 2 7 5 1 1 – 5 (9–16)	8 9 1 2 1 8 (17–22)	7 7 1 7 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 1 0 8 9 (MO. YR.) TO 1 2 8 9 (MO. YR.)

Detection Limits off !!

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X		X				X	Acrylonitrile	UG/L	3 1 4 1 2 1 1 1 5	2 0 0 0 . 0 0	K
	X			X		X				X	Benzene	UG/L	3 1 4 1 0 1 3 1 0	5 0 0 . 0	K
	X			X		X				X	Bromoform	UG/L	3 1 2 1 1 1 0 1 4	5 0 0 . 0 0	K
	X			X		X				X	Carbon Tetrachloride	UG/L	3 1 2 1 1 1 0 1 2	5 0 0 . 0 0	K
	X			X		X				X	Chlorobenzene	UG/L	3 1 4 1 3 1 0 1 1	5 0 0 . 0 0	K
	X			X		X				X	Chlorodibromomethane	UG/L	3 1 4 1 3 1 0 1 6	5 0 0 . 0 0	K
	X			X		X				X	Chloroform	UG/L	3 1 2 1 1 1 0 1 6	5 0 0 . 0 0	K
	X			X		X				X	1, 1 - Dichloroethane	UG/L	3 1 4 1 4 1 9 1 6	5 0 0 . 0 0	K
	X			X		X				X	1, 2 - Dichloroethane	UG/L	3 1 4 1 5 1 3 1 1	5 0 0 . 0	K
	X			X		X				X	1, 1 - Dichloroethylene	UG/L	3 1 4 1 5 1 0 1 1	5 0 0 . 0	K
	X			X		X				X	1, 2 - Dichloropropane	UG/L	3 1 4 1 5 1 4 1 1	5 0 0 . 0 0	K
	X			X		X				X	Ethylbenzene	UG/L	3 1 4 1 3 1 7 1 1	1 1 7 0 0 . 0 0	
	X			X		X				X	Methylene Chloride	UG/L	3 1 4 1 4 1 2 1 3	1 7 9 0 . 0 0	
	X			X		X				X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 1 4 1 5 1 1 1 6	5 0 0 . 0 0	K
	X			X		X				X	Tetrachloroethylene	UG/L	3 1 4 1 4 1 7 1 5	5 0 0 . 0 0	K
	X			X		X				X	Toluene	UG/L	3 1 4 1 0 1 1 1 2	5 0 0 . 0 0	
	X			X		X				X	1, 1, 1 - Trichloroethane	UG/L	3 1 4 1 5 1 0 1 6	5 0 0 . 0 0	K
	X			X		X				X	1, 1, 2 - Trichloroethane	UG/L	3 1 4 1 5 1 1 1 1	5 0 0 . 0 0	K
	X			X		X				X	Trichloroethylene	UG/L	3 1 9 1 1 1 8 1 0	5 0 0 . 0 0	K
	X			X		X				X	Vinyl Chloride	UG/L	3 1 9 1 1 1 7 1 5	1 0 0 0 . 0 0	K
	X			X		X				X	Acrolein	UG/L	3 1 4 1 2 1 1 1 0	2 0 0 0 . 0 0	K
	X			X		X				X	Chloroethane	UG/L	3 1 4 1 3 1 1 1 1	1 0 0 0 . 0 0	K
	X			X		X				X	2 - Chloroethylvinyl Ether	UG/L	3 1 4 1 5 1 7 1 6	5 0 0 . 0	K
	X			X		X				X	Dichlorobromomethane	UG/L	3 1 2 1 1 1 0 1 5	5 0 0 . 0 0	K
	X			X		X				X	1, 3 - Dichloropropylene	UG/L	3 1 4 1 6 1 9 1 9	5 0 0 . 0 0	K
	X			X		X				X	Methyl Bromide	UG/L	3 1 4 1 4 1 1 1 3	1 0 0 0 . 0 0	K
	X			X		X				X	Methyl Chloride	UG/L	3 1 4 1 4 1 1 1 8	1 0 0 0 . 0 0	K
	X			X		X				X	1, 2 - trans - Dichloroethylene	UG/L	3 1 4 1 5 1 4 1 6	5 0 0 . 0 0	K

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

VALUE CODING RULES AND REMARK CODES ON REVERSE

TVO - 1749.0 ATTACHMENT I-42

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

TYPE OR PRINT WITH BALLPOINT PEN

MW-3-55

CITY NAME Aluminum Shapes, Inc.

SW ID NO.

NAME BCM Laboratory Division

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 8 - 1	9 0 0 3 2 0	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 90 (MO. YR.) TO 03 90 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	20.0	K
	X			X			X			X	Benzene	UG/L	3 4 0 3 0	5.0	K
	X			X			X			X	Bromoform	UG/L	3 2 1 0 4	5.0	K
	X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 0 2	5.0	K
	X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
	X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
	X			X			X			X	Chloroform	UG/L	3 2 1 0 6	5.0	K
	X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.0	K
	X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.0	K
	X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
	X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
	X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
	X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	6.8	
	X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 5	5.0	K
	X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
	X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
	X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	5.0	K
	X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
	X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
	X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
	X			X			X			X	Acrolein	UG/L	3 4 2 1 0	20.0	K
	X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	10.0	K
	X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
	X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5.0	K
	X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
	X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
	X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
	X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT F-47

K-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

FACILITY NAME Aluminum Shapes, Inc.

SW ID NO.

LAB NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	9 0 0 3 2 0	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 0 3 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	20.0	K
		X			X			X			X	Benzene	UG/L	3 4 0 3 0	5.0	K
		X			X			X			X	Bromoform	UG/L	3 2 1 0 4	5.0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 0 2	5.0	K
		X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
		X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
		X			X			X			X	Chloroform	UG/L	3 2 1 0 6	5.0	K
		X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.0	K
		X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	5.0	K
		X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
		X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
		X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
		X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5.0	K
		X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
		X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
		X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
		X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	11.0	
		X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
		X			X			X			X	Trichloroethylene	UG/L	3 9 1 8 0	5.0	K
		X			X			X			X	Vinyl Chloride	UG/L	3 9 1 7 5	10.0	K
		X			X			X			X	Acrolein	UG/L	3 4 2 1 0	20.0	K
		X			X			X			X	Chloroethane	UG/L	3 4 3 1 1	10.0	K
		X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
		X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 0 5	5.0	K
		X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
		X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
		X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
		X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

ATTACHMENT I-44

(Ti)
NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

USE TYPE OR PRINT WITH BALLPOINT PEN

MW-5-60

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

T	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
1	NJ 0 0 3 4 5 7 6 (2–8)	3 1 – 2 7 5 1 – 4 (9–16)	9 0 0 3 2 0 (17–22)	7 7 1 7 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 1 9 0 (MO. YR.) TO 0 3 1 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X			X				X	Acrylonitrile	UG/L	3 4 2 1 1 5	2 0 . 0	K
	X		X			X				X	Benzene	UG/L	3 4 0 3 1 0	7 . 7	
	X		X			X				X	Bromoform	UG/L	3 2 1 1 0 4	5 . 0	K
	X		X			X				X	Carbon Tetrachloride	UG/L	3 2 1 1 0 2	5 . 0	K
	X		X			X				X	Chlorobenzene	UG/L	3 4 3 1 0 1	5 . 0	K
	X		X			X				X	Chlorodibromomethane	UG/L	3 4 3 1 0 6	5 . 0	K
	X		X			X				X	Chloroform	UG/L	3 2 1 1 0 6	5 . 0	K
	X		X			X				X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5 . 0	K
	X		X			X				X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1 1	5 . 0	K
	X		X			X				X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1 1	5 . 0	K
	X		X			X				X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1 1	5 . 0	K
	X		X			X				X	Ethylbenzene	UG/L	3 4 3 7 1 1	5 . 0	K
	X		X			X				X	Methylene Chloride	UG/L	3 4 4 2 1 3	5 . 0	K
	X		X			X				X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 1 6	5 . 0	K
	X		X			X				X	Tetrachloroethylene	UG/L	3 4 4 7 1 5	5 . 0	K
	X		X			X				X	Toluene	UG/L	3 4 0 1 1 2	5 . 0	K
	X		X			X				X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 1 6	5 . 0	K
	X		X			X				X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1 1	5 . 0	K
	X		X			X				X	Trichloroethylene	UG/L	3 9 1 1 8 0	5 . 0	K
	X		X			X				X	Vinyl Chloride	UG/L	3 9 1 1 7 5	1 0 . 0	K
	X		X			X				X	Acrolein	UG/L	3 4 2 1 1 0	2 0 . 0	K
	X		X			X				X	Chloroethane	UG/L	3 4 3 1 1 1	1 0 . 0	K
	X		X			X				X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5 . 0	K
	X		X			X				X	Dichlorobromomethane	UG/L	3 2 1 1 0 5	5 . 0	K
	X		X			X				X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5 . 0	K
	X		X			X				X	Methyl Bromide	UG/L	3 4 4 1 1 3	1 0 . 0	K
	X		X			X				X	Methyl Chloride	UG/L	3 4 4 1 1 8	1 0 . 0	K
	X		X			X				X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 1 6	5 . 0	K

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

VALUE CODING RULES AND REMARK CODES ON REVERSE

ATTACHMENT I-45

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

WITH BALLPOINT PEN

MW-6-55

ISW ID NO.

Aluminum Shapes, Inc.

Laboratory Division

NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
NJ 0 0 3 4 5 7 6 (2–8)	3 1 – 2 7 5 1 1 – 5 (9–16)	9 0 0 3 2 0 (17–22)	7 7 1 7 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01/90 (MO. YR.) TO 03/90 (MO. YR.)

Detection Limits too high!!

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X		X			X				X	Acrylonitrile	UG/L	3 1 4 2 1 1 5	100.10	K
		X		X			X				X	Benzene	UG/L	3 1 4 0 1 3 0	25.0	K
		X		X			X				X	Bromoform	UG/L	3 2 1 1 0 1 4	25.0	K
		X		X			X				X	Carbon Tetrachloride	UG/L	3 2 1 1 0 1 2	25.0	K
		X		X			X				X	Chlorobenzene	UG/L	3 1 4 3 0 1 1	25.0	K
		X		X			X				X	Chlorodibromoethane	UG/L	3 1 4 3 0 1 6	25.0	K
		X		X			X				X	Chloroform	UG/L	3 2 1 1 0 1 6	25.0	K
		X		X			X				X	1,1-Dichloroethane	UG/L	3 1 4 4 9 1 6	25.0	K
		X		X			X				X	1,2-Dichloroethane	UG/L	3 1 4 5 3 1 1	25.0	K
		X		X			X				X	1,1-Dichloroethylene	UG/L	3 1 4 5 0 1 1	25.0	K
		X		X			X				X	1,2-Dichloropropane	UG/L	3 1 4 5 4 1 1	25.0	K
		X		X			X				X	Ethylbenzene	UG/L	3 1 4 3 7 1 1	2870.0	
		X		X			X				X	Methylene Chloride	UG/L	3 1 4 4 2 1 3	25.0	K
		X		X			X				X	1,1,2,2-Tetrachloroethane	UG/L	3 1 4 5 1 1 6	25.0	K
		X		X			X				X	Tetrachloroethylene	UG/L	3 1 4 4 7 1 5	25.0	K
		X		X			X				X	Toluene	UG/L	3 1 4 0 1 1 2	130.0	
		X		X			X				X	1,1,1-Trichloroethane	UG/L	3 1 4 5 0 1 6	25.0	K
		X		X			X				X	1,1,2-Trichloroethane	UG/L	3 1 4 5 1 1 1	25.0	K
		X		X			X				X	Trichloroethylene	UG/L	3 1 9 1 1 8 1 0	25.0	K
		X		X			X				X	Vinyl Chloride	UG/L	3 1 9 1 1 7 1 5	50.0	K
		X		X			X				X	Acrolein	UG/L	3 1 4 2 1 1 0	100.0	K
		X		X			X				X	Chloroethane	UG/L	3 1 4 3 1 1 1	50.0	K
		X		X			X				X	2-Chloroethylvinyl Ether	UG/L	3 1 4 5 1 7 6	25.0	K
		X		X			X				X	Dichlorobromomethane	UG/L	3 1 2 1 1 0 1 5	25.0	K
		X		X			X				X	1,3-Dichloropropylene	UG/L	3 1 4 6 9 1 9	25.0	K
		X		X			X				X	Methyl Bromide	UG/L	3 1 4 4 1 1 3	50.0	K
		X		X			X				X	Methyl Chloride	UG/L	3 1 4 4 1 1 8	50.0	K
		X		X			X				X	1,2-trans-Dichloroethylene	UG/L	3 1 4 5 4 1 6	25.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-46

Form VWX-016
B3

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

FACILITY NAME: Aluminum Shapes, Inc.

ISW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	9 0 0 6 1 3	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0490 (MO. YR.) TO 0790 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	34215	20.0	K
		X			X			X			X	Benzene	UG/L	34030	5.0	K
		X			X			X			X	Bromoform	UG/L	32104	5.0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	32102	5.0	K
		X			X			X			X	Chlorobenzene	UG/L	34301	5.0	K
		X			X			X			X	Chlorodibromoethane	UG/L	34306	5.0	K
		X			X			X			X	Chloroform	UG/L	32106	5.0	K
		X			X			X			X	1,1-Dichloroethane	UG/L	34496	5.9	
		X			X			X			X	1,2-Dichloroethane	UG/L	34531	5.0	K
		X			X			X			X	1,1-Dichloroethylene	UG/L	34501	5.0	K
		X			X			X			X	1,2-Dichloropropane	UG/L	34541	5.0	K
		X			X			X			X	Ethylbenzene	UG/L	34371	5.0	K
		X			X			X			X	Methylene Chloride	UG/L	34423	5.0	K
		X			X			X			X	1,1,2,2-Tetrachloroethane	UG/L	34516	5.0	K
		X			X			X			X	Tetrachloroethylene	UG/L	34475	5.0	K
		X			X			X			X	Toluene	UG/L	34012	5.0	K
		X			X			X			X	1,1,1-Trichloroethane	UG/L	34506	22.0	
		X			X			X			X	1,1,2-Trichloroethane	UG/L	34511	5.0	K
		X			X			X			X	Trichloroethylene	UG/L	39180	5.0	K
		X			X			X			X	Vinyl Chloride	UG/L	39175	10.0	K
		X			X			X			X	Acrolein	UG/L	34210	20.0	K
		X			X			X			X	Chloroethane	UG/L	34311	10.0	K
		X			X			X			X	2-Chloroethylvinyl Ether	UG/L	34576	5.0	K
		X			X			X			X	Dichloropromomethane	UG/L	32105	5.0	K
		X			X			X			X	1,3-Dichloropropylene	UG/L	34699	5.0	K
		X			X			X			X	Methyl Bromide	UG/L	34413	10.0	K
		X			X			X			X	Methyl Chloride	UG/L	34418	10.0	K
		X			X			X			X	1,2-trans-Dichloroethylene	UG/L	34546	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

ATTACHMENT I-41

orm VWX-016
/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

LEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-5-60

FACILITY NAME Aluminum Shapes, Inc.

SW ID NO.

LAB NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T (1)	NJ 0 0 3 4 5 7 6 (2–8)	3 1 – 2 7 5 1 – 4 (9–16)	9 0 0 6 1 3 (17–22)	7 7 1 7 5 (23–27)	(28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 4 1 9 0 (MO. YR.) TO 0 7 1 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X		X			X			X		Acrylonitrile	UG/L	34211 5	20.10	K
		X		X			X			X		Benzene	UG/L	34030	7.11	
		X		X			X			X		Bromoform	UG/L	32104	5.10	K
		X		X			X			X		Carbon Tetrachloride	UG/L	32102	5.10	K
		X		X			X			X		Chlorobenzene	UG/L	34301	5.10	K
		X		X			X			X		Chlorodibromomethane	UG/L	34306	5.10	K
		X		X			X			X		Chloroform	UG/L	32106	5.10	K
		X		X			X			X		1,1-Dichloroethane	UG/L	34496	5.10	K
		X		X			X			X		1,2-Dichloroethane	UG/L	34531	5.10	K
		X		X			X			X		1,1-Dichloroethylene	UG/L	34501	5.10	K
		X		X			X			X		1,2-Dichloropropane	UG/L	34541	5.10	K
		X		X			X			X		Ethylbenzene	UG/L	34371	5.10	K
		X		X			X			X		Methylene Chloride	UG/L	34423	5.10	K
		X		X			X			X		1,1,2,2-Tetrachloroethane	UG/L	34516	5.10	K
		X		X			X			X		Tetrachloroethylene	UG/L	34475	5.10	K
		X		X			X			X		Toluene	UG/L	34012	5.10	K
		X		X			X			X		1,1,1-Trichloroethane	UG/L	34506	5.10	K
		X		X			X			X		1,1,2-Trichloroethane	UG/L	34511	5.10	K
		X		X			X			X		Trichloroethylene	UG/L	39110	5.10	K
		X		X			X			X		Vinyl Chloride	UG/L	39175	10.10	K
		X		X			X			X		Acrolein	UG/L	34210	20.10	K
		X		X			X			X		Chloroethane	UG/L	34311	10.10	K
		X		X			X			X		2-Chloroethylvinyl Ether	UG/L	34576	5.10	K
		X		X			X			X		Dichlorobromomethane	UG/L	32105	5.10	K
		X		X			X			X		1,3-Dichloropropylene	UG/L	34699	5.10	K
		X		X			X			X		Methyl Bromide	UG/L	34413	10.10	K
		X		X			X			X		Methyl Chloride	UG/L	34418	10.10	K
		X		X			X			X		1,2-trans-Dichloroethylene	UG/L	34546	5.10	K

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

VALUE CODING RULES AND
REMARK CODES ON REVERSE

ATTACHMENT I-48

Form VWX-016
2/83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-6-55

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Aluminum Shapes, Inc.
SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0034576	31-2751-5	900613	77175	
1	2 8	9 16	17 22	23 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0490 (MO. YR.) TO 0790 (MO. YR.)

Detection Limits off !!

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	34215	100.0	K
		X			X			X			X	Benzene	UG/L	34030	25.0	K
		X			X			X			X	Bromoform	UG/L	32104	25.0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	32102	25.0	K
		X			X			X			X	Chlorobenzene	UG/L	34301	25.0	K
		X			X			X			X	Chlorodibromoethane	UG/L	34306	25.0	K
		X			X			X			X	Chloroform	UG/L	32106	25.0	K
		X			X			X			X	1,1-Dichloroethane	UG/L	34496	25.0	K
		X			X			X			X	1,2-Dichloroethane	UG/L	34531	25.0	K
		X			X			X			X	1,1-Dichloroethylene	UG/L	34501	25.0	K
		X			X			X			X	1,2-Dichloropropane	UG/L	34541	25.0	K
		X			X			X			X	Ethylbenzene	UG/L	34371	1310.0	
		X			X			X			X	Methylene Chloride	UG/L	34423	25.0	K
		X			X			X			X	1,1,2,2-Tetrachloroethane	UG/L	34516	25.0	K
		X			X			X			X	Tetrachloroethylene	UG/L	34475	25.0	K
		X			X			X			X	Toluene	UG/L	34012	432.0	
		X			X			X			X	1,1,1-Trichloroethane	UG/L	34506	25.0	K
		X			X			X			X	1,1,2-Trichloroethane	UG/L	34511	25.0	K
		X			X			X			X	Trichloroethylene	UG/L	39180	25.0	K
		X			X			X			X	Vinyl Chloride	UG/L	39175	50.0	K
		X			X			X			X	Acrolein	UG/L	34210	100.0	K
		X			X			X			X	Chloroethane	UG/L	34311	50.0	K
		X			X			X			X	2-Chloroethylvinyl Ether	UG/L	34576	25.0	K
		X			X			X			X	Dichlorobromomethane	UG/L	32105	25.0	K
		X			X			X			X	1,3-Dichloropropylene	UG/L	34699	25.0	K
		X			X			X			X	Methyl Bromide	UG/L	34413	50.0	K
		X			X			X			X	Methyl Chloride	UG/L	34418	50.0	K
		X			X			X			X	1,2-trans-Dichloroethylene	UG/L	34546	49.0	

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

ATTACHMENT I-49

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-1-55

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 0 - 6	9 0 0 9 1 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 5	10.0	K
		X			X			X			X	Benzene	UG/L	3 4 0 3 0	5.0	K
		X			X			X			X	Bromoform	UG/L	3 2 1 1 0 4	5.0	K
		X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 1 0 2	5.0	K
		X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
		X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
		X			X			X			X	Chloroform	UG/L	3 2 1 1 0 6	5.0	K
		X			X			X			X	1,1-Dichloroethane	UG/L	3 4 4 9 6	5.0	K
		X			X			X			X	1,2-Dichloroethane	UG/L	3 4 5 3 1	5.0	K
		X			X			X			X	1,1-Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
		X			X			X			X	1,2-Dichloropropane	UG/L	3 4 5 4 1	5.0	K
		X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
		X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5.0	K
		X			X			X			X	1,1,2,2-Tetrachloroethane	UG/L	3 4 5 1 6	5.0	K
		X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
		X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
		X			X			X			X	1,1,1-Trichloroethane	UG/L	3 4 5 0 6	5.0	K
		X			X			X			X	1,1,2-Trichloroethane	UG/L	3 4 5 1 1	5.0	K
		X			X			X			X	Trichloroethylene	UG/L	3 9 1 1 8 0	5.0	K
		X			X			X			X	Vinyl Chloride	UG/L	3 9 1 1 7 5	10.0	K
		X			X			X			X	Acrolein	UG/L	3 4 2 1 1 0	10.0	K
		X			X			X			X	Chloroethane	UG/L	3 4 3 1 1 1	10.0	K
		X			X			X			X	2-Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
		X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 1 0 5	5.0	K
		X			X			X			X	1,3-Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
		X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
		X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
		X			X			X			X	1,2-trans-Dichloroethylene	UG/L	3 4 5 4 6	5.8	*

VALUE CODING RULES AND REMARK CODES ON REVERSE

*TRANS-1,2-DICHLOROETHENE INCLUDES CIS-1,2-DICHLOROETHENE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-50

VWX-016

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-3-65

FACILITY NAME Aluminum Shapes, Inc.

ISW ID NO.

NAME BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 - 2 5 8 9 8 - 1	9 0 0 9 1 1	7 7 1 7 5	

SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01/90 (MO. YR.) TO 12/90 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
X			X			X			X	Acrylonitrile	UG/L	3 4 2 1 1 5	10.0	K
X			X			X			X	Benzene	UG/L	3 4 0 3 0	5.0	K
X			X			X			X	Bromoform	UG/L	3 2 1 1 0 4	5.0	K
X			X			X			X	Carbon Tetrachloride	UG/L	3 2 1 1 0 2	5.0	K
X			X			X			X	Chlorobenzene	UG/L	3 4 3 0 1	5.0	K
X			X			X			X	Chlorodibromoethane	UG/L	3 4 3 0 6	5.0	K
X			X			X			X	Chloroform	UG/L	3 2 1 1 0 6	5.0	K
X			X			X			X	1, 1 - Dichloroethane	UG/L	3 4 4 9 6	5.0	K
X			X			X			X	1, 2 - Dichloroethane	UG/L	3 4 5 3 1	6.0	K
X			X			X			X	1, 1 - Dichloroethylene	UG/L	3 4 5 0 1	5.0	K
X			X			X			X	1, 2 - Dichloropropane	UG/L	3 4 5 4 1	5.0	K
X			X			X			X	Ethylbenzene	UG/L	3 4 3 7 1	5.0	K
X			X			X			X	Methylene Chloride	UG/L	3 4 4 2 3	5.0	K
X			X			X			X	1, 1, 2, 2 - Tetrachloroethane	UG/L	3 4 5 1 5	5.0	K
X			X			X			X	Tetrachloroethylene	UG/L	3 4 4 7 5	5.0	K
X			X			X			X	Toluene	UG/L	3 4 0 1 2	5.0	K
X			X			X			X	1, 1, 1 - Trichloroethane	UG/L	3 4 5 0 6	5.0	K
X			X			X			X	1, 1, 2 - Trichloroethane	UG/L	3 4 5 1 1	5.0	K
X			X			X			X	Trichloroethylene	UG/L	3 9 1 1 8 0	5.8	
X			X			X			X	Vinyl Chloride	UG/L	3 9 1 1 7 5	10.0	K
X			X			X			X	Acrolein	UG/L	3 4 2 1 1 0	10.0	K
X			X			X			X	Chloroethane	UG/L	3 4 3 1 1 1	10.0	K
X			X			X			X	2 - Chloroethylvinyl Ether	UG/L	3 4 5 7 6	5.0	K
X			X			X			X	Dichlorobromomethane	UG/L	3 2 1 1 0 5	5.0	K
X			X			X			X	1, 3 - Dichloropropylene	UG/L	3 4 6 9 9	5.0	K
X			X			X			X	Methyl Bromide	UG/L	3 4 4 1 3	10.0	K
X			X			X			X	Methyl Chloride	UG/L	3 4 4 1 8	10.0	K
X			X			X			X	1, 2 - trans - Dichloroethylene	UG/L	3 4 5 4 6	5.0	K

VALUE CODING RULES AND
REMARK CODES ON REVERSE

29 42 55 68 — 33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

ATTACHMENT I-5

VWX-015 A

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS — MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-4-60

FACILITY NAME: Aluminum Shapes, Inc.

SWID NO.:

LAB NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
IR	NJ 0 0 3 4 5 7 6	3 1 - 2 5 9 0 1 - 4	9 0 0 9 1 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 1990 (MO. YR.) TO 12 1990 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
		X			X			X			X	Elevation of top of well casing with cap off (as specified in well completion report)	feet MSL to nearest .01		36.33	
		X			X			X			X	Elevation of original ground level (as specified in well completion report)	feet MSL to nearest .01		34.23	
		X			X			X			X	Depth to water table from top of casing prior to sampling with cap off	feet to nearest .01	62546		
		X			X			X			X	Depth to water table from original ground level prior to sampling	feet to nearest .01	72019		
		X			X			X			X	Arsenic, Dissolved	UG/L as As	01010	5.01	K
		X			X			X			X	Barium, Dissolved	UG/L as Ba	01015	66.01	
												Biochemical Oxygen Demand - 5 Day	MG/L	01013		
		X			X			X			X	Cadmium, Dissolved	UG/L as Cd	01012	5.01	K
												Chloride, Dissolved	UG/L as Cl	82215		
		X			X			X			X	Chromium, Dissolved	UG/L as Cr	01013	146.01	
		X			X			X			X	Chromium, Dissolved, Hexavalent	UG/L as Cr	01212	60.01	
		X			X			X			X	Chemical Oxygen Demand (COD), Dissolved	MG/L	01014	27.01	
												Coliform Group	N/100 ML	74015		
												Color	Pt - Co	01018		
		X			X			X			X	Copper, Dissolved	UG/L as Cu	01014	20.01	K
		X			X			X			X	Cyanide, Total	MG/L as CN	01072	0.05	K
												Endrin, Total	UG/L	39190		
												Fluoride, Dissolved	MG/L as F	01095		
												Gross Alpha, Dissolved	Pc/L	01510		
												Gross Beta, Dissolved	Pc/L	01510		
												Hardness, Total as $CaCO_3$	MG/L	01910		
												Iron, Dissolved	UG/L as Fe	01014		
		X			X			X			X	Lead, Dissolved	UG/L as Pb	01014	2.01	K
												Lindane, Total	UG/L	39782		
		X			X			X			X	Manganese, Dissolved	UG/L	01056	57.01	
		X			X			X			X	Mercury, Dissolved	UG/L	71180	0.12	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-52

VWX-015

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-5-60

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

NAME: BCM Laboratory Division

	NJPDES NO.	WELL PERMIT NO.	SAMPLE DATE YR. MO. DAY	NJ LAB CERT. NO.	WQM USE
T	NJ 0 0 3 4 5 7 6	3 1 – 2 7 5 1 – 4	9 0 0 9 1 1	7 7 1 7 5	
1	2 – 8	9 – 16	17 – 22	23 – 27	28

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 1990 (MO. YR.) TO 12 1990 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS: Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X			X			X		Acrylonitrile	UG/L	34211 5	10.0	K
	X		X			X			X		Benzene	UG/L	34030	5.0	K
	X		X			X			X		Bromoform	UG/L	32110 4	5.0	K
	X		X			X			X		Carbon Tetrachloride	UG/L	32110 2	5.0	K
	X		X			X			X		Chlorobenzene	UG/L	34310 1	5.0	K
	X		X			X			X		Chlorodibromomethane	UG/L	34310 6	5.0	K
	X		X			X			X		Chloroform	UG/L	32110 6	5.0	K
	X		X			X			X		1,1-Dichloroethane	UG/L	34419 6	5.0	K
	X		X			X			X		1,2-Dichloroethane	UG/L	34513 1	5.0	K
	X		X			X			X		1,1-Dichloroethylene	UG/L	34510 1	5.0	K
	X		X			X			X		1,2-Dichloropropane	UG/L	34514 1	5.0	K
	X		X			X			X		Ethylbenzene	UG/L	34317 1	5.0	K
	X		X			X			X		Methylene Chloride	UG/L	34412 3	6.4	B *
	X		X			X			X		1,1,2,2-Tetrachloroethane	UG/L	34511 6	5.0	K
	X		X			X			X		Tetrachloroethylene	UG/L	34417 5	5.0	K
	X		X			X			X		Toluene	UG/L	34011 2	5.0	K
	X		X			X			X		1,1,1-Trichloroethane	UG/L	34510 6	5.0	K
	X		X			X			X		1,1,2-Trichloroethane	UG/L	34511 1	5.0	K
	X		X			X			X		Trichloroethylene	UG/L	39118 0	5.0	K
	X		X			X			X		Vinyl Chloride	UG/L	39117 5	10.0	K
	X		X			X			X		Acrolein	UG/L	34211 0	10.0	K
	X		X			X			X		Chloroethane	UG/L	34311 1	10.0	K
	X		X			X			X		2-Chloroethylvinyl Ether	UG/L	34517 6	5.0	K
	X		X			X			X		Dichlorobromomethane	UG/L	32110 5	5.0	K
	X		X			X			X		1,3-Dichloropropylene	UG/L	34619 9	5.0	K
	X		X			X			X		Methyl Bromide	UG/L	34411 3	10.0	K
	X		X			X			X		Methyl Chloride	UG/L	34411 8	10.0	K
	X		X			X			X		1,2-trans-Dichloroethylene	UG/L	34514 6	5.0	K

VALUE CODING RULES AND REMARK CODES ON REVERSE

* B-THIS FLAG IS USED WHEN THE ANALYTE IS FOUND IN THE BLANK AS WELL AS A SAMPLE.

33 34 46 47 59 60 72 73 — 40 41 53 54 66 67 79 80

ATTACHMENT I-53

VWK-015 B

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – MONITORING WELL REPORT

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

MW-6-55

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.

LAB NAME: BCM Laboatory Division

S (1)	NJPDES NO. (2–8)	WELL PERMIT NO. (9–16)	SAMPLE DATE YR. MO. DAY (17–22)	NJ LAB CERT. NO. (23–27)	WQM USE (28)
S	NJ 0 0 3 4 5 7 6	3 1 - 2 7 5 1 - 5	9 0 0 9 1 1	7 7 1 7 5	

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 01 1990 (MO. YR.) TO 12 1990 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
											Methoxychlor, Total	UG/L	39480		
											Methylene Blue Active Substances	MG/L	38260		
											Nitrogen, Ammonia, Dissolved $NH_3 + NH_4$ as N	MG/L as N	00608		
											Nitrogen, Nitrate Dissolved	MG/L as N	00618		
											Odor	T.O.N.	00085		
	X		X			X			X		pH	Standard Units	00400	6.11	
	X		X			X			X		Phenols, Total Recoverable	UG/L	32730	53.0	
											Radium 226, Dissolved	Pc/L	09503		
											Radium 228, Dissolved	Pc/L	81366		
											Selenium, Dissolved	UG/L	01145		
											Silver, Dissolved	UG/L	01075		
											Sodium, Dissolved	MG/L	00930		
	X		X			X			X		Sulfate, Dissolved (as SO_4)	MG/L	00946	2.00	
	X		X			X			X		Total Dissolved Solids (TDS)	PPM	70300	239.0	
											Total Organic Carbon (TOC)	PPM	00680		
											Total Organic Halogen (TOX)	UG/L	70353		
											Toxaphene	UG/L	39400		
											Turbidity	NTU	00076		
	X		X			X			X		Zinc, Dissolved	UG/L	01090	45.0	
											2,4-D, Total	UG/L	39370		
											2,4,5-TP, Total	UG/L	39045		
	X		X			X			X		Aluminum, Dissolved	MG/L		0.110	K
	X		X			X			X		Magnesium, Dissolved	MG/L	00925	8.08	
	X		X			X			X		Nickel, Dissolved	MG/L	01065	0.04	K
	X		X			X			X		Oil & Grease	MG/L	00556	5.0	K
	X		X			X			X		Petroleum Hydrocarbons	MG/L	82100	2.08	

VALUE CODING RULES AND REMARK CODES ON REVERSE

29 42 55 68 | 33 34 46 47 59 60 72 73 | 40 41 53 54 66 67 79 80

ATTACHMENT I-54

Form VWX-016
83

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
WATER QUALITY MANAGEMENT ELEMENT

GROUND WATER ANALYSIS – VOLATILE ORGANICS REPORT

MW-6-55

PLEASE TYPE OR PRINT WITH BALLPOINT PEN

FACILITY NAME: Aluminum Shapes, Inc.

SW ID NO.:

LAB NAME: BCM Laboratory Division

T (1) NJPDES NO.: NJ 0 0 3 4 5 7 6 (2–8)

WELL PERMIT NO.: 3 1 – 2 7 5 1 – 5 (9–16)

SAMPLE DATE YR. MO. DAY: 9 0 0 9 1 1 (17–22)

NJ LAB CERT. NO.: 7 7 1 7 5 (23–27)

WQM USE (28)

THE SCHEDULE INDICATED BELOW IS TO BE OBSERVED FROM 0 1 9 0 (MO. YR.) TO 1 2 9 0 (MO. YR.)

SUBMIT WITH SIGNED T-VWX-014

SAMPLING MONTHS

Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	ANALYSIS	UNITS	PARAMETER	VALUE	REMARKS
	X		X		X		X		X			Acrylonitrile	UG/L	34215	10.0	K
	X		X		X		X		X			Benzene	UG/L	34030	5.0	K
	X		X		X		X		X			Bromoform	UG/L	32104	5.0	K
	X		X		X		X		X			Carbon Tetrachloride	UG/L	32102	5.0	K
	X		X		X		X		X			Chlorobenzene	UG/L	34301	5.0	K
	X		X		X		X		X			Chlorodibromoethane	UG/L	34306	5.0	K
	X		X		X		X		X			Chloroform	UG/L	32106	5.0	K
	X		X		X		X		X			1,1-Dichloroethane	UG/L	34496	5.0	K
	X		X		X		X		X			1,2-Dichloroethane	UG/L	34531	5.0	K
	X		X		X		X		X			1,1-Dichloroethylene	UG/L	34501	7.8	
	X		X		X		X		X			1,2-Dichloropropane	UG/L	34541	5.0	K
	X		X		X		X		X			Ethylbenzene	UG/L	34371	140.0	
	X		X		X		X		X			Methylene Chloride	UG/L	34423	5.0	K
	X		X		X		X		X			1,1,2,2-Tetrachloroethane	UG/L	34516	5.0	K
	X		X		X		X		X			Tetrachloroethylene	UG/L	34475	5.0	K
	X		X		X		X		X			Toluene	UG/L	34012	10.0	
	X		X		X		X		X			1,1,1-Trichloroethane	UG/L	34506	5.0	K
	X		X		X		X		X			1,1,2-Trichloroethane	UG/L	34511	5.0	K
	X		X		X		X		X			Trichloroethylene	UG/L	39110	5.0	K
	X		X		X		X		X			Vinyl Chloride	UG/L	39175	10.0	K
	X		X		X		X		X			Acrolein	UG/L	34210	10.0	K
	X		X		X		X		X			Chloroethane	UG/L	34311	10.0	K
	X		X		X		X		X			2-Chloroethylvinyl Ether	UG/L	34576	5.0	K
	X		X		X		X		X			Dichlorobromomethane	UG/L	32105	5.0	K
	X		X		X		X		X			1,3-Dichloropropylene	UG/L	34699	5.0	K
	X		X		X		X		X			Methyl Bromide	UG/L	34413	10.0	K
	X		X		X		X		X			Methyl Chloride	UG/L	34418	10.0	K
	X		X		X		X		X			1,2-trans-Dichloroethylene	UG/L	34546	108.0	*

VALUE CODING RULES AND REMARK CODES ON REVERSE

* TRANS-1,2 DICHLOROTHENE INCLUDES CIS-1,2 DICHLOROTHENE

29 33 34 40 41
42 46 47 53 54
55 59 60 66 67
68 72 73 79 80

ATTACHMENT I-55

ATTACHMENT J

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
Trenton, N.J. 08625-0029

Eric J. Evenson
Acting Director

(609) 292-1637
Fax # (609) 984-7938

IN THE MATTER OF	:	ADMINISTRATIVE ORDER AND NOTICE OF CIVIL ADMINISTRATIVE PENALTY ASSESSMENT
ALUMINUM SHAPES	:	
INCORPORATED	:	

This Administrative Order and Notice of Civil Administrative Penalty Assessment is issued pursuant to the authority vested in the Commissioner of the New Jersey Department of Environmental Protection (hereinafter "NJDEP") by N.J.S.A. 13:1D-1 et seq. and the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., and duly delegated to the Assistant Director of the Division of Water Resources, Enforcement Element pursuant to N.J.S.A. 13:1B-4.

FINDINGS

1. Aluminum Shapes Incorporated ("ASI"), a New Jersey corporation, owns and operates a facility located at Block 251, Lot 38 and Block 248Z, Lot 5, River Road, Pennsauken Township, Camden County, New Jersey.

2. NJDEP issued a New Jersey Pollutant Discharge Elimination System ("NJPDES") Permit No. NJ0034576 ("the Permit") to ASI on September 24, 1986. The effective date of the Permit was November 1, 1986 and the expiration date is October 31, 1991.

3. Pursuant to the Permit, ASI discharges industrial process wastewater and stormwater runoff via discharge DSN001 to the Pennsauken Sewerage Authority and contact cooling water via DSN S01 to a concrete block storage sump and the ground waters of this State. Both discharges contain pollutants as defined by N.J.A.C. 7:14A-1.9.

4. Part III, Table I and Part III-DGW-J,W, Table I, of the Permit set forth specific parameters to be reported on Discharge Monitoring Reports ("DMRs") and identifies discharge limitations for each parameter for each permitted outfall.

5. ASI has submitted DMRs to NJDEP as required by Part I, page 7, section 10-I, of the Permit for the period of December 1, 1986 through December 31, 1989. The DMRs demonstrate that ASI has violated the discharge limits of the Permit. Listed below are the dates and parameters which were violated.

DISCHARGE 001

Monitoring Period	Outfall DSN	Discharge Parameter	Permit Limits	Reported Results
12/86-2/87	001	Chromium, Total (mx)	.448 mg/L(mx)	.740 mg/L
12/86-2/87	001	Flow	.300 MGD	.404 MGD
3/87-5/87	001	Aluminum	10 mg/L	34.7 mg/L
3/87-5/87	001	Flow	.300 MGD	.433 MGD
3/87-5/87	001	pH	7 - 9.5 su	6.6 su
5/87-7/87	001	Chromium, Total (mx)	.448 mg/L	1.73 mg/L
5/87-7/87	001	Chromium, Total (av)	.184 mg/L	.255 mg/L
5/87-7/87	001	Flow	.300 MGD	.418 MGD
5/87-7/87	001	pH	7 - 9.5 su	5.7 su
8/87-10/87	001	Chromium, Total (mx)	.543 mg/L	2.12 mg/L
8/87-10/87	001	Chromium Total (av)	.223 mg/L	.616 mg/L
8/87-10/87	001	Aluminum	10 mg/L	520 mg/L
8/87-10/87	001	COD	400 mg/L	489 mg/L
8/87-10/87	001	TSS	300 mg/L	440 mg/L
8/87-10/87	001	Flow	.300 MGD	.322 MGD
11/87-1/88	001	Chromium, Total (mx)	.543 mg/L	1.13 mg/L
11/87-1/88	001	Chromium, Total (av)	.223 mg/L	.394 mg/L
11/87-1/88	001	Aluminum	10 mg/L	1,610 mg/L
11/87-1/88	001	COD	400 mg/L	458 mg/L
12/87-2/88	001	pH	7 - 9.5 su	10.1 su
12/87-2/88	001	O&G	100 mg/L	203.3 mg/L
12/87-2/88	001	Aluminum	10 mg/L	92.5 mg/L
12/87-2/88	001	TTO	.848 mg/L	1.148 mg/L
3/88-5/88	001	Flow	.300 MGD	.377 MGD
3/88-5/88	001	Aluminum	10 mg/L	285 mg/L
3/88-5/88	001	Chromium, Total (mx)	.543 mg/L	.617 mg/L
3/88-5/88	001	Chromium, Total (av)	.223 mg/L	.228 mg/L
3/88-5/88	001	TTO	.848 mg/L	1.323 mg/L
7/88-9/88	001	Flow	.300 MGD	.338 MGD
7/88-9/88	001	Aluminum	10 mg/L	310 mg/L
7/88-9/88	001	Chromium, Total (mx)	.543 mg/L	.895 mg/L
7/88-9/88	001	Zinc (mx)	1.81 mg/L	3.69 mg/L
10/88-12/88	001	Flow	.300 MGD	.349 MGD
10/88-12/88	001	Aluminum	10 mg/L	.346 mg/L

ATTACHMENT J-2

10/88-12/88	001	Chromium, Total (mx)	.543 mg/L	1.91 mg/L
10/88-12/88	001	Chromium, Total (av)	.223 mg/L	.307 mg/L
1/89-3/89	001	Aluminum	10 mg/L	406 mg/L
1/89-3/89	001	Chromium, Total (mx)	.543 mg/L	.839 mg/L
4/89-6/89	001	Flow	.300 MGD	.305 MGD
4/89-6/89	001	pH	7 - 9.5 su	13.3 su
4/89-6/89	001	COD	400 mg/L	1,120 mg/L
4/89-6/89	001	TSS	3000 mg/L	400 mg/L
4/89-6/89	001	Aluminum	10 mg/L	516 mg/L
4/89-6/89	001	Chromium, Total (mx)	.543 mg/L	2.37 mg/L
4/89-6/89	001	Chromium, Total (av)	.223 mg/L	.433 mg/L
7/89-9/89	001	Flow	.300 MGD	.325 MGD
7/89-9/89	001	pH	7 - 9.5 su	5.5 su
7/89-9/89	001	Aluminum	10 mg/L	362 mg/L
10/89-12/89	001	O&G	100 mg/L	152 mg/L
10/89-12/89	001	Aluminum	10 mg/L	243 mg/L
10/89-12/89	001	Flow	.300 MGD	.432 MGD

DISCHARGE DSN S01

Monitoring Period	Outfall DSN	Discharge Parameter	Permit Limits	Reported Results
1/87-3/87	S01	O&G	20 mg/L	46 mg/L
1/87-3/87	S01	Pet. Hydro.	20 mg/L	29 mg/L
7/87-10/87	S01	O&G	20 mg/L	37.9 mg/L
7/87-10/87	S01	Chromium, Total	0.1 mg/L	2.12 mg/L
10/87-12/87	S01	O&G	20 mg/L	33 mg/L
10/87-12/87	S01	Base Neutral	20 ug/L	175 ug/L
1/88-3/88	S01	O&G	20 mg/L	203.3 mg/L
1/88-3/88	S01	Pet. Hydro.	20 mg/L	35.9 mg/L
1/88-3/88	S01	VO Scan	20 ug/L	59 ug/L
1/88-3/88	S01	Base Neutral	20 ug/L	1070 ug/L
4/88-6/88	S01	O&G	20 mg/L	24 mg/L
4/88-6/88	S01	Base Neutral	20 ug/L	33 ug/L
7/88-9/88	S01	O&G	20 mg/L	93 mg/L
9/88-12/88	S01	Pet. Hydro.	20 mg/L	78.3 mg/L
9/88-12/88	S01	Chromium Total	0.1 mg/L	0.15 mg/L
9/88-12/88	S01	Base Neutral	20 ug/L	22 ug/L
10/88-12/88	S01	O&G	20 mg/L	32.3 mg/L
10/88-12/88	S01	Phenols	7.0 mg/L	460 mg/L
1/89-3/89	S01	O&G	20 mg/L	58.0 mg/L
1/89-3/89	S01	Pet. Hydro.	20 mg/L	75.0 mg/L
1/89-3/89	S01	Base Neutral	20 ug/L	43 ug/L
4/89-6/89	S01	pH	6 - 9 su	13.3 su
4/89-6/89	S01	O&G	20 mg/L	40 mg/L
4/89-6/89	S01	Base Neutral	20 ug/L	44 ug/L

ATTACHMENT J-3

Monitoring Period	Outfall DSN	Discharge Parameter	Permit Limits	Reported Results
7/89-9/89	S01	Pet. Hydro.	20 mg/L	38.4 mg/L
7/89-9/89	S01	Base Neutral	20 ug/L	33 ug/L
7/89-9/89	S01	pH	6 - 9 su	5.5 su
11/89-12/89	S01	pH	6 - 9 su	5.01 su
11/89-12/89	S01	O&G	20 mg/L	152 mg/L
11/89-12/89	S01	Base Neutral	20 ug/L	38.7 ug/L

The following abbreviations were used in the table above:

MGD - Million Gallons per Day
Pet. Hydro. - Petroleum Hydrocarbons
TTO - Total Toxic Organics
O&G - Oil and Grease
TSS - Total Suspended Solids
COD - Chemical Oxygen Demand
mg/L - milligrams per liter
av - monthly average
mx - daily maximum
su - standard units
VO Scan - Volatile Organic Scan
ug/L - micrograms per liter
Base Neutral - Base Neutral/Acid Extractables

6. No person shall discharge any pollutant except in conformity with a valid NJPDES Permit issued pursuant to the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq.

7. Based on the facts set forth in these FINDINGS, NJDEP has determined that ASI has violated the Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., specifically N.J.S.A. 58:10A-6, and the regulations promulgated pursuant thereto, N.J.A.C. 7:14A-1 et seq., specifically N.J.A.C. 7:14A-1.2.

ORDER

NOW, THEREFORE, IT IS HEREBY ORDERED THAT:

8. ASI shall discharge pollutants only in conformity with the Permit, the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1 et seq., and the regulations promulgated pursuant thereto, N.J.A.C. 7:14A-1.1 et seq.

9. Obligations and penalties of this Administrative Order are imposed pursuant to the police powers of the State of New Jersey for the enforcement of law and the protection of the public health, safety and welfare and are not intended to constitute debt or debts which may be limited or discharged in a bankruptcy proceeding.

10. This Administrative Order shall be effective upon receipt.

ATTACHMENT J-4

ATTACHMENT K

Let's protect our earth

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES
CN 029
TRENTON, NEW JERSEY 08625

GEORGE G. McCANN, P.E.
DIRECTOR

DIRK C. HOFMAN, P.E.
DEPUTY DIRECTOR

Water Quality Management

CERTIFIED MAIL
RETURNED RECEIPT REQUESTED

Aluminum Shapes, Inc.
9000 River Road
Delair, NJ 08110

OCT 07 1986

Dear Sirs:

RE: NJPDES Permit No. NJ0034576
Effective Date: NOV 01 1986

Enclosed is the final NJPDES/SIU-DGW Permit to discharge pollutants to the Pennsauken Sewerage Authority, to operate a stormwater collection system and to operate a contact cooling water recycling system, issued in accordance with the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. Violation of any condition of this permit may subject you to significant penalties.

Within 30 calendar days following your receipt of this permit, under N.J.A.C. 7:14A-8.6 you may submit a request to the Administrator for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may be found in N.J.A.C. 7:14A-8.9 through 8.13. The request should be made to:

Administrator
Water Quality Management Element
Division of Water Resources
CN-029
Trenton, New Jersey 08625

Application for renewal of this permit must be submitted at least 180 days prior to expiration of this permit pursuant to N.J.A.C. 7:14A-2.1(f)5.

A set of self monitoring report forms are attached for your use. Please make copies according to your need.

ATTACHMENT F-1

In a separate action, the "wastewater treatment unit", for which your company filed a RCRA Part A application as a treatment facility, has been determined to be under the scope of the New Jersey Water Pollution Control Act, N.J.S.A. 58:10A-1.1 et seq. The company is subject to the Industrial Waste Management Facility (IWMF) requirements of Subchapter 4 of the New Jersey Pollutant Discharge Elimination System (NJPDES) Regulations, N.J.A.C. 7:14A-1.1 et seq. Enclosed is an IWMF worksheet which shows the basis of our determination. The IWMF provisions are incorporated in the final NJPDES permit.

This action does not relieve Aluminum Shapes, Inc. of the responsibility for complying with the hazardous waste generation and accumulation requirements of the New Jersey Hazardous Waste Regulations, N.J.A.C. 7:26-1 et seq. Hazardous waste sludges generated from the unit may accumulate on-site for 90 days or less provided that:

(1) All such waste is, within 90 days or less, shipped off-site to an authorized facility;

(2) The waste is placed in containers which meet the standards of N.J.A.C. 7:26-7.2 and are managed in accordance with N.J.A.C. 7:26-9.4(d);

(3) The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;

(4) The facility complies with the requirements for owners and operators of N.J.A.C. 7:26-9.6 and 9.7 concerning preparedness and prevention, contingency plans, emergency procedures, and personnel training as per N.J.A.C. 7:26-9.4(g).

Any accumulation of such sludges for any period longer than 90 days would constitute a hazardous waste TSD storage facility, and would be subject to regulation under N.J.A.C. 7:26-1 et seq.

If you have any questions on this action, please contact Gary Torres or Valentin Kouame at (609) 292-4860.

Sincerely,

Paul C. Kurisko

Paul C. Kurisko, P.E., Chief
Bureau of Industrial Waste Management
Water Quality Management

WQM181:gjt

ATTACHMENT K-2

Let's protect our earth

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
CN 402
Trenton, N.J. 08625

PERMIT

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to the further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit.

Permit No.	Issuance Date	Effective Date	Expiration Date
NJ0034576	September 24, 1986	November 1, 1986	October 31, 1991

Name and Address of Applicant	Location of Activity/Facility	Name and Address of Owner
Aluminum Shapes, Inc. 9000 River Road Delair, NJ 08110	9000 River Road Delair, Pennsauken Township Camden County, NJ	SAME AS APPLICANT

Issuing Division	Type of Permit	Statute(s)	Application No.
WATER RESOURCES	NJPDES/SIU and DGW and IWMF	N.J.S.A. 58:10A-1 et seq.	NJ0034576

This permit grants permission to:

Discharge industrial wastewater into the Pennsauken Sewerage Authority, to operate a stormwater collection system and to operate a contact cooling water recycling system, in accordance with the effluent limitations, monitoring requirements, and other conditions set forth in Parts I, II, III and IV hereof.

Approved by the Department of Environmental Protection
By the Authority of:
George G. McCann, P.E.
Acting Director
~~Division of Water Resources~~

ARNOLD SCHIFFMAN, ADMINISTRATOR
WATER QUALITY MANAGEMENT

SEP 24 1986
DATE

The word permit means "approval, certification, registration, etc."

(GENERAL CONDITIONS ARE ON THE REVERSE SIDE.)

ATTACHMENT E-3

Special Conditions For Aluminum Shapes, Inc.

1.a. To determine the extent of any contamination resulting from past waste management activities, Aluminum Shapes shall take two soil samples and one background soil sample from the former leach field at the eastern corner of the facility (see monitor well location map). These samples shall consist of continuous split spoon (no composites) six inch samples taken at one foot intervals to four feet below the leach field disposal system. Samples shall be analyzed utilizing methods referenced in EPA document SW846 for the following parameters:

Total Volatile Organics, Petroleum Hydrocarbons, Cyanide, Lead
Aluminum, Cadmium, Chromium (Total), Copper, Nickel, Lead, Zinc

The samples shall be taken within 60 days from the effective date of the permit. The permittee shall provide the Land Application Section of the Bureau of Ground Water Quality Management a minimum of two weeks notification prior to the drilling of these soil borings.

Any soil boring must be drilled and sealed by a New Jersey well driller who is licensed to drill and seal soil borings. Appropriate permits shall be obtained from the Water Allocation Office of the Division of Water Resources at (609) 984-6831. The results of all analyses performed shall be submitted to the Bureau of Ground Water Quality Management immediately upon availability.

b. If soil contamination is indicated in 1.a. above, the permittee shall submit a proposal for further sampling to delineate the extent of the contamination. This proposal shall be submitted to the Department within 30 days of receipt of Department notification of any contamination.

c. Within 30 days of written Department approval of the soil sampling proposal required in 1.b. the permittee shall begin the approved study.

d. The approved soil contamination study shall be completed within 180 days of the Department's written approval of the program.

e. Within 60 days of the completion of the soil contamination study identified in 1.b. the results of the study and recommendations concerning a corrective action program shall be submitted to the Department in writing.

2.a. If ground water quality limits are exceeded in any monitoring well, the permittee shall submit a compliance monitoring program within 30 days of the date of Department notification. The plan shall be in accordance with N.J.A.C. 7:14A-6.15 (j) and shall include an implementation schedule for further study to define the source of contamination, the specific constituents of concern, and the vertical and horizontal extent of the plume.

b. Within 30 days of written Departmental approval of the ground water compliance monitoring program required in 2.a. the permittee shall begin the approved study.

c. The approved ground water study shall be completed within 180 days of the Department's written approval of the program.

d. Within 60 days of the completion of the ground water study identified in 2.b. the results of the study and recommendations concerning a corrective action program shall be submitted to the Department in writing.

3. The permittee shall provide the Department with the names and appropriate licensing information of haulers and ultimate disposal sites of any residual sludges from the concrete block sumps and catch basins, any waste oil and/or grits from plant machinery, and any wastes from the facility foundry. All residuals sludges must be classified by the Bureau of Hazardous Waste Planning and Classification ((609) 292-8341) and a disposal site will be approved upon classification.

ATTACHMENT L

COMPANY NAME ALUMINUM SHAPES, INC. PLANT I.D.# 50071

LEGAL ACTION LOG

Date	Subchapter Section Paragraph	Log No.	Action Taken	Penalty
1[illegible]13/70	5.1 et seq		ORDER (old #50011)	None
1[illegible]8/73	6.2(d)	8039	ORDER	None
2/21/73	6.2(d)	8248	N.O.P.	$200
5/26/77	5.1 et seq		(old #50011) CONSENT JUDGEMENT	None
12/8/80	8.3(a)	17594	ORDER	None
4/22/81	16.6(f)1	18059	ORDER - Paper work RE VOC	None
1[illegible]/16/86	8.3(a)&(b)	A861278 SRA	A.O. & C.A.P.	$400

ATTACHMENT 1-6

YEAR	DATE	COMPLAINANT & ADDRESS	TYPE OF COMPLAINT	VERIFICATIO
9[redacted]8	6-16	Mary T. Vick 2118 Penn St., Pennsauken	Odor	No
978	9-5	Mary T. Vick 2118 Penn St., Pennsauken	Odor	No
9[redacted]8	9-25	Mary T. Vick 2118 Penn St., Pennsauken	Odor	No
978	10-26	Mary T. Vick 2118 Penn St., Pennsauken	Odor	No.
[redacted]9	8-20	James Bosch 8476 Eden Lane, Delair	Odor	No
9[redacted]9	8-21	James Bosch 8476 Eden Lane, Delair	Odor	No
980	1-17	Mr. Wolfinger 8455 Balfour Rd., Delair	Particules	Company took care of this complain to the com-plainant's satisfaction
981	11/13 10:17AM	James Bosch 8476 EDEN LN. DELAIR	odor	No
9[redacted]5	9/26 4:10 PM	ANTHONY VELLUCCI 8467 EDEN LN. DELAIR	odor	No
1985	9/26 8:55AM	Mr. VELLUCCI 8467 EDEN LN. DELAIR	odor	REF. TO CAM. CO. HEALTH.

ATTACHMENT 6

YEAR	DATE	COMPLAINANT & ADDRESS	TYPE OF COMPLAINT	VERIFICATION
1985	9/26 8:45 Am	JAMES BOSCH 8476 EDEN LN. DELAIR	odor	REFERRED TO CAM. CO. HEALTH.
1986	5/8 2:11 PM	MR. VELLUCCI 8467 EDEN LN. DELAIR	odor/ noise	No.
1986	5/9 12:20 PM	Mrs. TANNAHILL 8464 EDEN LN. DELAIR	odors/ noise	REFERRED TO CAM. CO. HEALTH.
1986	5/28 2112 T.D.	SANDRA ROBINSON 8460 EDEN LN. DELAIR	odor	REFERRED TO CAM. CO. HEALTH.
1986	5/28 2114 T.D.	J. BOSCH 8476 EDEN LN. DELAIR	odors	REFERRED TO CAM. CO. HEALTH
1986	5/28 2148 T.D.	THERESA MECHLER 8216 SHEPPARD RD. DELAIR	odors	REFERRED TO CAM. CO. HEALTH.
1986	5/29 1635 TD	SANDRA ROBINSON 8460 EDEN LN. DELAIR	odors	
1986	5/29 1706 T.D.	MR. VELLUCCI ~~8400 INDIAN LANE~~ PENNSAUKEN	odors	REFERRED TO CAM. CO. HEALTH
1986	8/12 9:25 AM	Mr. VELLUCCI 8467 EDEN LANE PENNSAUKEN	odors + noise	REFERRED TO CAM. CO. HEALTH.
1986	8/13 1008 AM	Mr. VELLUCCI 8467 EDEN LN. DELAIR	odor	No

ATTACHMENT (-)

YEAR	DATE	COMPLAINANT & ADDRESS	TYPE OF COMPLAINT	VERIFICATION
88	6/17 1750	SANDRA ROBINSON 8460 EDEN LN. PENNSAUKEN	odors	No

ATTACHMENT L-4

DEQ-247

ALUMINUM SHAPES

9000 RIVER RD., PENNSAUKEN

APC STACK LOG

PLANT I.D. 50071

STACK NO.	CERTIFICATE NO.	DESCRIPTION OF EQUIPMENT	DATE LOGGED
1			
2			
3			
4			
5			
6		PAINT ENCLOSURE + MIX ROOM.	
7			
8		DRAVEL BOILER #1, BLDG. 2	
9			
10		DRAVEL BOILER #3 BLDG 3	
~~11~~	~~18662~~	~~FUEL OIL STORAGE TANK.~~ deleted	
12			
~~13~~	~~48773~~	~~Toluene STORAGE TANK #1~~ deleted 4/1/96	
14	49295	BLDG. 9 TORIT DUST COLLECTOR M/N 19F B55	4/8/96
15	49296	BLDG. 9 BELCO BILLET FURNACE	4/8/96
16	49297	BLDG. 9 DRAVO #601 MAKE UP AIR HEATER	4/8/96

APEDS USE ONLY

ATTACHMENT L-5

DEQ-047

ALUMINUM SHAPES,

9000 RIVER RD., PENNSAUKEN

APC STACK LOG

PLANT I.D. 50071

STACK NO.	CERTIFICATE NO.	DESCRIPTION OF EQUIPMENT	R+P DATE ~~DATE LOGGED~~
17	49298	BLDG. 9 DRAVO MAKE UP AIR HEATER #566	4/8/96
18			
19			
20	64651	STAGE #1 WASH WATER HEATER.	5/23/93
21	65084	WASHER VESTIBULE EXHAUST	10/28/92 REINSTATED
22	65085	WASHER STAGE #1 EXHAUST	10/28/92 "
23	65086	CONVERSION COAT HEATER.	10/28/92 "
24	65087	WASHER STAGE #3 EXHAUST	10/28/92 "
25	65088	MOISTURE DRYING OVEN.	10/28/92 "
26	65639	MAKE UP AIR HEATER.	12/3/92 "
~~27~~	~~68211~~	~~RANSBURG SHROUD EXHAUST~~ Deleted	"
~~28~~	~~68212~~	~~COOLING FLASH OFF EXHAUST~~ "	"
~~29~~	~~68213~~	~~BAKE OVEN EXHAUST.~~ "	"
~~30~~		"	
31	86-4641 ~~77051~~	~~REG. GASOLINE~~ 8,000 gallon STOR. TK. "	
32	86-4642 ~~77346~~	deleted	

APEDS USE ONLY

ATTACHMENT L-6

DEQ-047

APC STACK LOG

ALUMINUM SHAPES, INC.

9000 River Road, Pennsauken

PLANT I.D. 50071

STACK NO.	CERTIFICATE NO.	DESCRIPTION OF EQUIPMENT	Cap. Date ~~DATE LOGGED~~
~~33~~	~~77052~~	~~Unleaded Gas Stor. Trucks / Gas. Vent~~ Deleted	
34	82318	Paint Spray Booth #1 EXHAUST	3/9/94
35	82319	Paint Spray Booth #2 EXHAUST	
36	82320	Flash-off Station	
37	82321	Paint Bake Oven.	3/9/94
38		#1 Boiler CB L 31378	
39		#2 Boiler CB L 31379	
40		#3 Boiler CB L #8754	
41	76440	Underground Stor. Tank Fuel oil 25,000 GAL	12/30/91
42	77165	Air Duct Glueing Booth	4/21/93
43	78555	Staining Booth	3/24/93
44	78797	Foam Application Spray Booth	2/24/93
45	78798	Urethane Application Booth	5/20/93
46	78799	Barrier Coat Application	2/23/93
47	89746	1302	3/28/94
48	89747	1315	3/28/94

APEDS USE ONLY

ATTACHMENT L-7

DEQ-047

Aluminum Shapes, Inc.

APC STACK LOG

PLANT I.D. 50071

STACK NO.	CERTIFICATE NO.	DESCRIPTION OF EQUIPMENT	exp. date ~~DATE LOGGED~~
49	89748	1502	3/28/94
50	89749	1515	3/28/94
51	90629	1314	1/21/95
52	90-5098 98428	1349	5/14/91
53	99328	1558	12/18/95

APEDS USE ONLY

ATTACHMENT 6-8

ATTACHMENT M

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

FORMER PERCOLATION FIELD SOIL SAMPLING RESULTS

March 1987

Bureau of Groundwater Quality Management
Division of Water Resources
N.J. Department of Environmental Protection

BCM
Engineers, Planners and Scientists

REPORT

ATTACHMENT M-1

FORMER PERCOLATION FIELD
SOIL SAMPLING RESULTS

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

NJPDES Permit No. NJ0034576
BCM Project No. 00-5007-04

MARCH 1987

PREPARED BY

Robert S. Sheneman

ROBERT S. SHENEMAN
GEOLOGIST

REVIEWED BY

Donald J Varner

DONALD J. VARNER
SENIOR GEOLOGIST

APPROVED BY

John W Fowler for:

ALAN M. ROBINSON
VICE PRESIDENT

BCM

BCM Eastern Inc.
Engineers, Planners and Scientists

The Birches, Suite 4 • 2275 Whitehorse-Mercerville Road • Trenton, NJ 08619 • (609) 587-9777

ATTACHMENT M-2

BCM

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3.0 SOIL SAMPLING PROCEDURE	4
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5.0 ANALYTICAL RESULTS	8
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TABLE 2 -	Summary of Compounds Detected in Soil Samples	7

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APPENDIX 1	Soil Boring Logs
APPENDIX 2	Analytical Laboratory Reports

ATTACHMENT M-3

BCM

1.0 INTRODUCTION

BCM Eastern Inc. (BCM) conducted a soil sampling program at the Aluminum Shapes, Inc. (Aluminum Shapes) facility in Delair, New Jersey, as part of that facility's New Jersey Pollutant Discharge Elimination System (NJPDES) permit requirements. The program was designed to detect possible contamination at the location of a former septic percolation field at the facility. Soil borings were drilled on December 11 and 12, 1986, by a New Jersey-licensed well driller (Engineering Drilling Company, Robbinsville, New Jersey) under the direction of a BCM geologist.

After determining the subsurface lithologic conditions, the locations and sampling intervals were chosen in the field in consultation with Mr. Steven Urbanik, the New Jersey Department of Environmental Protection (NJDEP) geologist assigned to the case.

ATTACHMENT M-4

BCM

2.0 SOIL BORINGS

Four soil borings were drilled at the locations shown on Figure 1. Boring B-1 is located near monitoring well MW-1-55 and serves as an indicator of background soil conditions at the site. Three 6-inch samples were collected from boring B-1 at depths of 6, 10, and 14 feet. Borings B-2 and B-3 are located in the area of the former percolation field. Five 6-inch samples were collected at depths of 6, 8, 10, 12, and 14 feet in these borings. Boring B-4 is also located in the area of the former percolation field. This boring was used to determine lithologic conditions in the area. No analytical samples were collected from boring B-4.

ATTACHMENT M-5

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY
NJPDES Permit No. NJ0034576

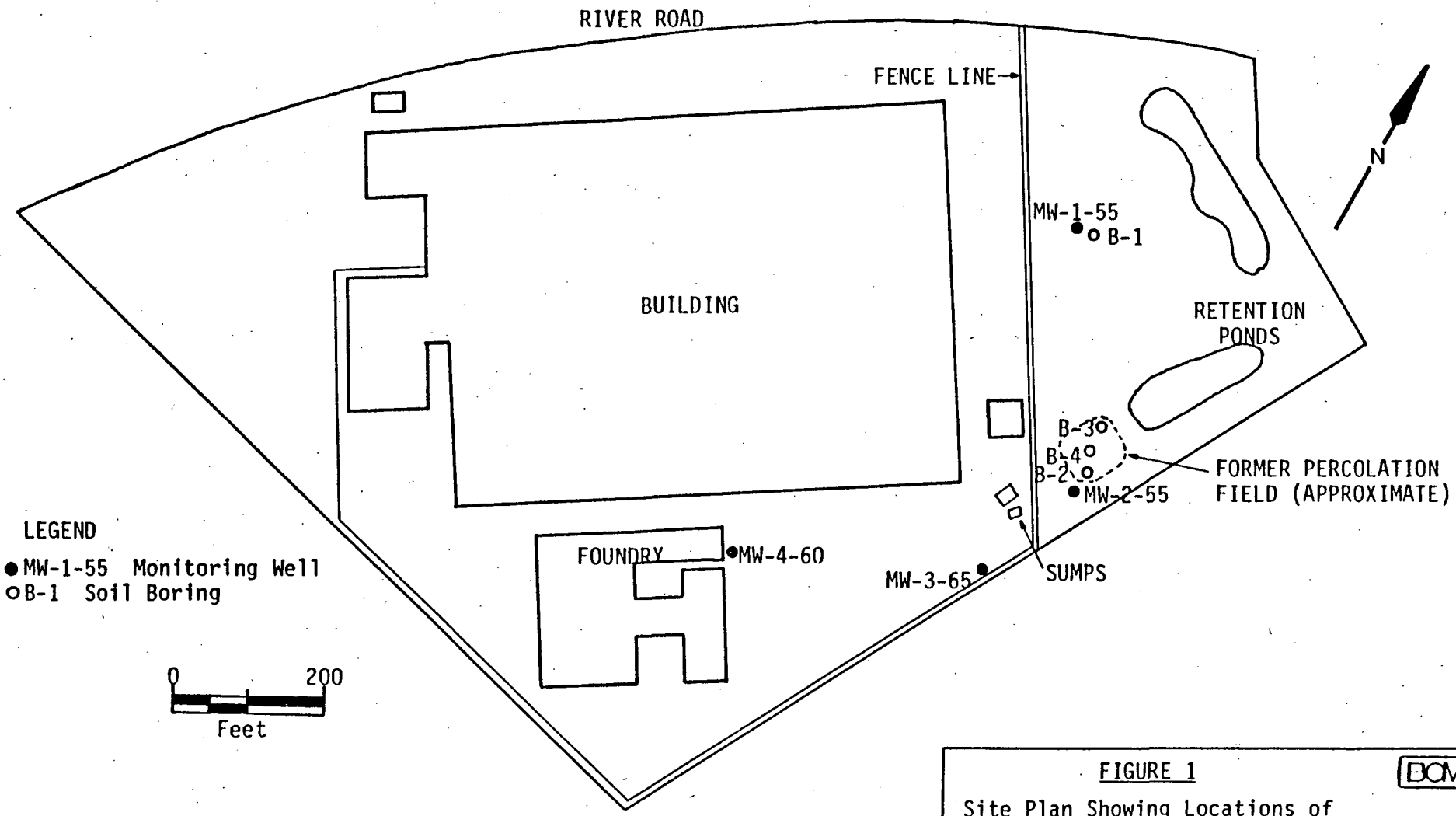

FIGURE 1

Site Plan Showing Locations of Monitoring Wells and Soil Borings

BCM

ATTACHMENT 1-6

BCM

3.0 SOIL SAMPLING PROCEDURE

Stainless steel split-spoons were used to obtain the subsurface material from the borings. The BCM geologist then transfered 6-inch samples from the split-spoons to the sample containers. Before collection of each sample the equipment was cleaned using the following protocol.

1. Wash with soap and tap water
2. Deionized water rinse
3. Methanol rinse
4. Distilled water rinse
5. 10 percent nitric acid rinse
6. Distilled water rinse

At the time of collection, the geologist classified the material and noted any signs of contamination (odor, staining, etc.). BCM kept logs of the subsurface conditions, which are given in Appendix 1. Prior to analysis, the samples were placed in laboratory-prepared containers that were sealed, labeled, and chilled for transport to the laboratory.

ATTACHMENT M-7

BCM

4.0 SOIL ANALYSIS

The soil samples were analyzed for the parameters specified in Aluminum Shapes NJPDES permit. The analyses and analytical method numbers are listed in Table 1. Analyses for all parameters, except total volatile organics, were conducted by BCM's Laboratory in Norristown, Pennsylvania (NJ No. 77175). The total volatile organics analysis was conducted by CompuChem Laboratories in Research Triangle Park, North Carolina (NJ No. 67373).

ATTACHMENT M-8

BCM

TABLE 1

SOIL SAMPLING
ANALYTICAL PARAMETERS AND METHODS

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

NJPDES PERMIT NO. NJ0034576

PARAMETER	EPA METHOD NUMBER
Total Volatile Organics	624
Total Petroleum Hydrocarbons	418.1
Cyanide	335.2, 335.3
Lead	239.1
Aluminum	202.1
Cadmium	213.1
Chromium	218.1
Copper	220.1
Nickel	249.1
Zinc	289.1

Source: Compiled by BCM Eastern, Inc. (Project No. 00-5007-04).

ATTACHMENT M-9

TABLE 2

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY
NJPDES PERMIT NO. NJ0034576

SUMMARY OF COMPOUNDS DETECTED IN SOIL SAMPLES

COMPOUND	UNITS	ECRA CLEANUP LIMIT	CONCENTRATION IN SOIL SAMPLES (BCM SAMPLE NO.)												
			B-1-6 (626698)	B-1-10 (626699)	B-1-14 (626700)	B-2-6 (626701)	B-2-8 (626702)	B-2-10 (626703)	B-2-12 (626704)	B-2-14 (626705)	B-3-6 (626706)	B-3-8 (626707)	B-3-10 (626708)	B-3-12 626709)	B-3-14 (626710)
Aluminum	mg/kg	-	70.6	74.2	104	7200	4180	5130	6020	4490	6220	6550	6320	6480	4860
Cadmium	mg/kg	3	0.21	0.2	0.28	2.40	2.23	2.17	2.54	2.19	2.77	2.08	2.35	2.28	2.41
Chromium	mg/kg	100	0.44	0.93	1.68	26.3	19.7	12.7	24.3	14.3	33.1	13.2	14.4	16.6	15.8
Copper	mg/kg	170	0.866	1.28	0.866	14.7	6.72	5.88	1.63	5.88	21.8	5.46	5.88	5.04	7.97
Cyanide	mg/kg	12	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156	0.156
Nickel	mg/l	1	0.10	0.10	0.10	0.77	0.29	0.81	0.77	0.26	0.81	0.26	0.18	0.26	0.26
Lead	mg/kg	100	1	1	1	5.29	3.60	3.60	4.16	1	13.7	1	1	1	3.04
Total Petroleum Hydrocarbons	mf/kg	100	40	40	40	318	40	40	78	40	40	40	40	40	40
Zinc	mg/kg	350	1.06	2.99	1.10	19.0	17.7	17.2	21.4	17.7	33.1	16.8	15.7	17.8	25.6
Methylene Chloride	ug/kg	1,000***	95*	37*	18*	10*	10*	26*	47*	18*	13*	17*	27*	20*	11*

Samples collected December 11-12, 1986

- indicates that no ECRA cleanup limit has been established

* compound detected in method and/or instrument blank, indicates possible laboratory contamination of samples.

** ECRA cleanup levels are presented for guidance purposes only.

*** ECRA cleanup limit for total volatile organics.

Source: BCM Eastern Inc. (Project No. 00-5007-04)

ATTACHMENT M-10

BCM

5.0 ANALYTICAL RESULTS

The metals and organic compounds detected in the soil samples are summarized in Table 2. The background boring (B-1) indicates the presence of metals, including aluminum, cadmium, chromium, copper, and zinc. The borings from the area of the former percolation field show concentrations from approximately 10 to 100 times those in the background boring. Although samples from the former percolation field show elevated levels of metals, none of the concentrations exceed the cleanup levels used by the Bureau of Industrial Site Evaluation to evaluate Environmental Cleanup and Responsibility Act (ECRA) cases. The Aluminum Shapes site is not undergoing an ECRA program and the cleanup level concentrations are presented for comparison purposes only. Methylene chloride was found in all of the samples at concentrations between 9 micrograms per kilogram (ug/kg), or parts per billion, and 47 ug/kg. Methylene chloride was also detected in the method and/or instrument blank.

ATTACHMENT M-11

BCM

6.0 CONCLUSIONS

Soil samples from the area of the former percolation field show elevated concentrations of aluminum, cadmium, chromium, copper, nickel, lead, and zinc when compared with concentrations in the background boring. These concentrations, however, are below ECRA cleanup levels, which are presented for guidance purposes only. No organic compounds were detected in the soil samples except for methylene chloride, which was also detected in the method and/or instrument blanks. As indicated by the analytical laboratory reports, the presence of methylene chloride in the samples is most likely the result of laboratory contamination. Based upon these sampling results, BCM concludes that no additional sampling and analysis in the former septic percolation field is necessary.

ATTACHMENT M-12

ATTACHMENT N

Aluminum Shapes, Inc.

Delair, New Jersey

Discharge Investigation Corrective Action Report

Volume 1 of 3: Report and Appendices A,B and D

Submitted To:

New Jersey Department of Environmental Protection Bureau of Underground Storage Tanks

July 1990

BCM

Engineers, Planners, Scientists and Laboratory Services

REPORT

ATTACHMENT A-1

DISCHARGE INVESTIGATION AND CORRECTIVE ACTION REPORT

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

JULY 1990

BCM PROJECT NO. 00-5007-10

PREPARED BY

STEFFI A. PHARO
HYDROGEOLOGIST

DONALD J. VARNER
ASSISTANT VICE PRESIDENT

BCM

Engineers, Planners, Scientists
and Laboratory Services

2 Terri Lane • Burlington, NJ 08016 • Phone: (609) 386-8800

ATTACHMENT N-2

BCM

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FIGURES

Figure 1 Site map with monitoring well, UST, and utility locations

Figure 2 Groundwater Contour Map - December 18, 1989

Figure 3 Groundwater Contour Map - January 25, 1990

Figure 4 Groundwater Contour Map - March 20, 1990

Figure 5 Groundwater Quality Distribution Map - September 1989 and November 1989

ATTACHMENT J-3

BCM

TABLES

Table 1 Analytical Results - Post-Excavation Soil Sampling

Table 2 Water Table Elevation Data

Table 3 Groundwater Sampling Results - September 1989 and November 1989

APPENDICES

Appendix A Tank Test Inc. Report

Appendix B Monitoring well logs, as-built diagrams, and certification forms

Appendix C Laboratory Reports and Tier II Deliverables - September and November 1989 Groundwater Sampling Episodes

Appendix D Well Search Data

ATTACHMENT N-4

BCM

1.0 INTRODUCTION

This report presents the findings of a groundwater investigation conducted by BCM Engineers, Inc. (BCM), on behalf of Aluminum Shapes, Inc. (ASI), in response to Bureau of Underground Storage Tanks (BUST) requirements at their facility in Delair, New Jersey.

1.1 BACKGROUND

1.1.1 Tank Removal

In March and April 1989, Tank Test, Inc. (TTI) removed seven underground #2 fuel oil storage tanks (UST) (NJDEP Registration No. 0053147) from the parking lot at the ASI facility in Delair, New Jersey. The TTI report is included in Appendix A. According to TTI's nomenclature, UST No. 1 was the 30,000 gallon tank; UST Nos. 2, 3, 6, and 7 were 20,000 gallon tanks; and UST Nos. 4 and 5 were 15,000 gallon tanks. TTI collected post-excavation soil samples which were analyzed for Total Petroleum Hydrocarbons (TPH). Based on the levels of TPH remaining in the soils, the excavations beneath UST's Nos. 1-5 and 7 were expanded and additional post-excavation samples collected. The concentrations of TPH in the final soil samples were <50 milligrams/kilogram (mg/kg), except for one sample collected beneath UST No. 7, which was 290 mg/kg. Based on these levels, no further excavation was performed and the excavation was backfilled and the area was paved for use as a parking lot. The former locations for the 7 USTs are shown in Figure 1. The analytical results from the post-excavation sampling are summarized in Table 1.

Excavated soils are stockpiled onsite pending waste classification.

1.1.2 Post-Excavation Soil Sampling

Post-excavation soil samples were collected by TTI following soil excavation at each tank location. Additional soil excavation and sampling was completed in areas where data from initial post-excavation samples indicated elevated levels of TPH were present in the soil. In the excavation for UST No. 1,2 and 3, the initial post-excavation samples were collected from 8.6 feet below the ground surface (grade). The initial samples were collected along the former location of the spine and sidewalls of each tank. Samples collected after additional excavation were uniformly spaced across the bottom of the excavation, at a depth of 18.0 feet below grade. In the excavation for UST No. 4 and No. 5 and the pump house, the initial post-excavation samples were collected from approximately 11.5 feet below grade. The initial samples were collected at the sidewall/bottom interface of the excavation 3. Samples collected after additional excavation were collected at depth of 22 feet below grade. In the excavation for UST No. 6 and No. 7, the initial post-excavation

ATTACHMENT N-5

samples were collected along the former location of the spine and sidewalls of each tank at a depth of approximately 11.5 feet below grade. Samples collected after additional excavation were located directly beneath the initial samples which contained elevated levels of TPH. The final depth of the excavation was 13.3 feet below grade. Sample locations are shown in the TTI report which is enclosed as Appendix A.

On March 17 and 18, 1989, TTI removed USTs Nos. 6 and 7 and collected 21 post-excavation soil samples. Based on the elevated levels (>100 mg/kg) of TPH detected in 7 of the post-excavation soil samples, additional excavation was performed on March 28, 1989. Seven post-excavation soil samples were collected following the additional excavation.

On March 27, 1989, TTI removed UST Nos. 1, 2, and 3 and collected 32 post-excavation soil samples. Based on the elevated levels (>100 mg/kg) of TPH detected in 18 of the post-excavation soil samples, additional excavation was performed on April 7, 1989. Four post-excavation soil samples were collected following the additional excavation.

On March 28, 1989, TTI removed UST Nos. 4 and 5 and the pump house and collected 17 post-excavation soil samples. Based on the elevated levels (>100 mg/kg) of TPH detected in 10 of the post-excavation soil samples, additional excavation was performed on April 3, 1989. Two post-excavation soil samples were collected following the additional excavation.

1.1.3 Analytical Results

TTI's analytical results from the initial and final rounds of post-excavation sampling for all seven USTs are summarized in Table 1. The laboratory data are also summarized in the TTI report included in Appendix A. Since the BUST does not have standards to which the analytical results can be compared, the relatively stringent ECRA guidance levels (EGL) of 100 mg/kg for TPH in soil will be used to evaluate the quality of the soils.

In the initial post-excavation samples collected on March 17 and 18, 1989, following the removal of UST Nos. 6 and 7, TPH was detected at concentrations in excess of informal EGL in 4 samples beneath UST No. 6 and 3 samples beneath UST No. 7. Concentrations ranged from 210 to 290 mg/kg beneath UST No. 6 and 240 to 2,000 mg/kg beneath UST No. 7. Based on these levels, additional excavation was performed beneath these tanks on March 28, 1989. Seven post-excavation samples were collected directly beneath those samples from the initial sampling round which contained elevated levels of TPH. Concentrations of TPH in all post-excavation samples collected in the final round were less than 100 mg/kg, except one sample beneath UST No. 7, which was 290 mg/kg.

ATTACHMENT N-6

BCM

In the initial post-excavation samples collected on March 27, 1989, following the removal of UST Nos. 1, 2, and 3, TPH was detected at concentrations in excess of the informal EGL of 100 mg/kg in 10 soil samples beneath UST No. 1; 4 samples beneath UST No. 2; and 4 samples beneath UST No. 3. Concentrations ranged from 110 to 10,000 mg/kg beneath UST No. 1; from 130 to 2,100 mg/kg beneath UST No. 2; and from 260 to 1,100 mg/kg beneath UST No. 2. Based on these levels, additional excavation was performed beneath these tanks on April 7, 1989. Four post-excavation samples were collected at the locations shown in of the TTI report. Concentrations of TPH in the final post-excavation soil sampling round were less than the laboratory detection limit of 50 mg/kg.

In the initial post-excavation samples collected on March 28, 1989, following the removal of UST Nos. 4, and 5 and the pump house, TPH was detected at concentrations in excess of informal EGL in 3 samples beneath UST No. 4; 3 samples beneath UST No. 5; and 4 samples beneath the pump house. Concentrations ranged from 370 to 3,200 mg/kg beneath UST No. 4; 270 to 460 mg/kg beneath UST No. 5; and 230 to 6,600 mg/kg beneath the pump house. Based on these levels, additional excavation was performed beneath these tanks and the pump house on April 3, 1989. Two post-excavation samples were collected at the locations shown in the TTI report. Concentrations of TPH in the final post-excavation soil sampling round were less than the laboratory detection limit of 50 mg/kg.

ATTACHMENT N-7

BCM

2.0 GROUNDWATER INVESTIGATION

2.1 INTRODUCTION

In August 1989, BCM installed two monitoring wells in the UST excavation area to determine if the shallow groundwater in this vicinity had been impacted and whether additional response to groundwater conditions was required. The monitoring wells were installed after excavation backfilling activities were complete. The location of the wells relative to the excavation is shown in Figure 1. These locations were selected based on the following considerations: 1) water level data from the other onsite shallow monitoring wells, which indicates groundwater flow is to the northwest and 2) the suspected influence of the nearby Morris well-field (located along River Road) on the shallow groundwater flow patterns, as documented during a continuous water level monitoring program.

2.2 HYDROGEOLOGY

The ASI facility is located within Atlantic Coastal Plain Physicographic Province of southern New Jersey in the outcrop area of the Potomac-Raritan-Magothy formation. The logs of Wells MW-7 and MW-8 (included in Appendix B) describe the sediments encountered during drilling as predominantly fine to coarse sands with a variable content of clay, silt, and fine gravel. Groundwater was encountered between 35 and 45 feet below grade.

The water table elevations measured in all onsite wells on December 18, 1989, January 25, 1990, and March 20, 1989 are summarized in Table 2. The groundwater contour maps developed from this data are shown in Figures 2, 3, and 4. The groundwater contours indicate convergent flow to the center of the property and a east northeast flow in the vicinity of the former UST locations.

Perturbations in the groundwater flow patterns have been observed in groundwater elevation data collected from other onsite wells since early 1987. In order to determine an explanation for the observed groundwater flow patterns beneath the site, a continuous water level monitoring program was conducted on 5 of the other onsite wells in June 1988. The results of this water level monitoring program revealed that groundwater flow near the site is toward the west and that there is an influence on the groundwater elevations beneath the site caused by pumping from the nearby Morris well field (which is located along River Road). Increased pumping at the Morris well field may cause periodic depression of the local water table and reverse the groundwater flow direction beneath the former UST locations.

ATTACHMENT N-8

TABLE 1

ANALYTICAL RESULTS
POST-EXCAVATION SAMPLING

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

MARCH - APRIL 1989

	Initial Depth Below Grade (feet)	Initial TPH Concentration (mg/kg)	Final Depth Below Grade (feet)	Final TPH Concentration (mg/kg)
UST No. 1				
#20	8.6	2,100	18.0	---
#22	8.6	180	18.0	---
#23	8.6	1,100	18.0	---
#24	8.6	660	18.0	---
#25	8.6	480	18.0	---
#26	8.6	150	18.0	<50
#27	8.6	110	18.0	---
#30	8.6	10,000	18.0	---
#31	8.6	2,700	18.0	---
#32	8.6	220	18.0	---
UST No. 2				
#10	8.6	130	18.0	<50
#14	8.6	150	18.0	---
#15	8.6	300	18.0	---
#16	8.6	2,100	18.0	<50
UST No. 3				
#1	8.6	350	18.0	---
#2	8.6	1,100	18.0	<50
#3	8.6	260	18.0	---
#9	8.6	680	18.0	---

ATTACHMENT N-9

TABLE 1 (Continued)

ANALYTICAL RESULTS
POST-EXCAVATION SAMPLING

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

MARCH - APRIL 1989

	Initial Depth Below Grade (feet)	Initial TPH Concentration (mg/kg)	Final Depth Below Grade (feet)	Final TPH Concentration (mg/kg)
UST No. 4				
#1	11.6	920	22	---
#3	11.7	3,200	22	---
#11	11.7	370	22	---
UST No. 5				
#8	11.7	270	22	---
#9	11.7	290	22	---
#10	11.6	460	22	<50
Pump House				
#14	11.6	230	22	---
#15	11.4	1,600	22	---
#16	11.5	6,600	22	<50
#17	11.7	640	22	---
UST No. 6				
#1	11.5	260	13.3	<100
#2	11.5	210	13.3	<100
#5	11.5	290	13.3	<100
#10	11.25	270	13.3	<100

ATTACHMENT N-10

TABLE 1 (Continued)

ANALYTICAL RESULTS
POST-EXCAVATION SAMPLING

ALUMINUM SHAPES, INC.
DELAIR, NEW JERSEY

MARCH - APRIL 1989

	Initial Depth Below Grade (feet)	Initial TPH Concentration (mg/kg)	Final Depth Below Grade (feet)	Final TPH Concentration (mg/kg)
UST No. 7				
#16	11.0	240	13.3	<100
#17	11.0	780	13.3	290
#21	11.0	2,000	13.3	<100

Note:

Numbering scheme for USTs and post-excavation samples taken directly from TTI report (April 1989)

--- No corresponding sample taken

Source: Tank Test Inc. (Report No. 1700)

0408r

ATTACHMENT N-11

ATTACHMENT O

0427-10

Form DEP-061 C
9/88

PAGE 1 OF ____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DUTY OFFICER NOTIFICATION REPORT

7-11-90

CASE NO. 90 (Yr) - 07 (Mo) - 09 (Day) - 2108 (Time)

DATE 07 (Mo) - 09 (Day) - 90 (Yr) REC'D BY R/21 TIME 2117

INCIDENT REPORT BY:
Name SGT. SALAAM Phone 609-662-5500
Street
City State
Affiliation/Title ALUMINUM SHAPES / SECURITY GUARD

INCIDENT LOCATION: ___ Transportation X Facility ___ Other:
Name (Site): ALUMINUM SHAPES Phone 609-662-5500
Street 9000 RIVER ROAD
City DEL AIR County CAMDEN State NJ Zip Code
Date of Incident: 07 (Mo) - 09 (Day) - 90 (Yr) Time: 2050

IDENTITY OF SUBSTANCE(S) SPILLED/RELEASED, ETC.: X Suspected ___ Unknown
Name of Substance(s) [Gas/Liquid/Solid]: TAR
Amount Released/Spilled UNK ___ Actual ___ Potential ___ Estimated Substance Contained Y (N) U
Type of Release/Spill: X Terminated ___ Continuous ___ Intermittent Hazardous Material (Y) N U

INCIDENT DESCRIPTION:
X Fire ___ Explosion ___ Air Rel ___ Spill ___ MVA ___ Derailment ___ Smoke/Dust
___ Odors ___ Sewage ___ NJPDES ___ Noise ___ Wildlife ___ Illegal Dumping ___ Drums
___ Equip Start-Up/Shutdown, Equip Fail/Upset, etc.
___ Other (specify)

Injuries	Y (N) U	Public Exposure	Y (N) U
Facility Evacuation	(Y) N U	Fire Department at Scene	(Y) N U
Population Evacuation	Y (N) U	Police at Scene	(Y) N U
Potable Water Source	Y (N) U	Assistance Requested	Y (N) U
Contamination of X Air ___ Land ___ Water		Precipitation	Y N U
Receiving Water		Wind Direction/Speed	

Location Type: ___ Residential X Industrial ___ Commercial ___ Rural ___ Sensitive Population (Hosp., School, Nurs. Home)
STATUS AT INCIDENT SCENE CALLER ADVISES FIRE INVOLVED ABOVE MATERIAL. FIRE IS OUT AT THIS TIME. NO EMERGENT ACTION SHOULD RESULT.

RESPONSIBLE PARTY: X Suspected ___ Unknown
Company Name ALUMINUM SHAPES Phone 609-662-5500
Contact SGT. SALAAM Title SECURITY GUARD
Street 9000 RIVER ROAD
City DELAIR County CAMDEN State NJ Zip Code

OFFICIALS NOTIFIED (Name/Title):

NJSP:	/	Phone	Date/Time / (T/M)
Local Health: CCHD	/	Phone FAX	Date/Time 7-10-90 / 0842 (T/M)
Local Munic:	/	Phone	Date/Time / (T/M)
USEPA:	/	Phone	Date/Time / (T/M)

INCIDENT REFERRED TO: County HD 7-10-90.
X DEQ ___ DWR ___ DSWM ___ DHSM X DHWM ___ DOH ___ DFG ___ DPF ___ DCJ ___ DCR
Region: ___ Northern ___ Metro ___ Central X Southern ___ ER1 ___ ER2 ___ BUST

1. Name/Affil DEQ-S	/	Phone FAX	Date/Time 7/10 / 0847 (T/M)
2. Name/Affil DHWM-S	/	Phone FAX	Date/Time 7/10 / 0850 (T/M)
3. Name/Affil	/	Phone	Date/Time / (T/M)

DEP RESPONSE Emergency Immediate Priority No Response

COMMENTS

ATTACHMENT D-1

Form DEP-061 C
9/89

PAGE 1 OF ____

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DUTY OFFICER NOTIFICATION REPORT

Logged 5-24-89 lyh

5-24-89 lyh

CASE NO. 89 (Yr) - 05 (Mo) - 19 (Day) : 1950 (Time)

DATE 05 (Mo) - 19 (Day) - 89 (Yr) REC'D BY M McCreary TIME 1956

INCIDENT REPORT BY:

Name Opn 11 Phone 546-4808

Street

City State

Affiliation/Title CC Comm Camden County Communications

INCIDENT LOCATION: ____ Transportation ____ Facility ____ Other:

Name (Site): Aluminum Shapes Phone

Street 9000 River Rd

City Pennsauken County Camden State N.J. Zip Code

Date of Incident: 05 (Mo) - 19 (Day) - 89 (Yr) Time: 1855

IDENTITY OF SUBSTANCE(S) SPILLED, RELEASED, ETC.: ____ Suspected ____ Unknown

Name of Substance(s) (Gas, Liquid, Solid): polymeric methylene ethenyl

Amount Released/Spilled UNK ____ Actual ____ Potential ____ Estimated Substance Contained (Y) N U

Type of Release/Spill ____ Terminated ____ Continuous ____ Intermittent Hazardous Material Y N (U)

INCIDENT DESCRIPTION:

✓ Fire ____ Explosion ____ Air Rel ____ Spill ____ MVA ____ Derailment ____ Smoke/Dust

____ Odors ____ Sewage ____ NJPDES ____ Noise ____ Wildlife ____ Illegal Dumping ____ Drums

____ Equip Start-Up/Shutdown, Equip Fail/Upset, etc.

____ Other (specify)

Injuries	Y (N) U	Public Exposure	Y (N) U
Facility Evacuation	Y (N) U	Fire Department at Scene	Y (N) U
Population Evacuation	Y (N) U	Police at Scene	Y (N) U
Potable Water Source	Y (N) U	Assistance Requested	Y (N) U
Contamination of ____ Air ____ Land ____ Water		Precipitation	Y (N) U
Receiving Water		Wind Direction/Speed	/

Location Type: ____ Residential ____ Industrial ____ Commercial ____ Rural ____ Sensitive Population (Hosp., School, Nurs. Home)

STATUS AT INCIDENT SCENE Fire in dumpster and fire under control.

RESPONSIBLE PARTY: ____ Suspected ____ Unknown

Company Name See I/L Phone

Contact Title

Street

City County State Zip Code

OFFICIALS NOTIFIED (Name/Title):

NJSP:	By TID /	Phone	Date/Time /	(T/M)
Local Health:	Telefax / Camden H.D.	Phone	Date/Time /	(T/M)
Local Munic:	By TID /	Phone	Date/Time /	(T/M)
USEPA:	/	Phone	Date/Time /	(T/M)

INCIDENT REFERRED TO: Camden (HD) 5-23-89

____ DEO ____ DWR ____ DSWM ____ DHSM ✓ DHWM ____ DOH ____ DFG ____ DPF ____ DCJ ____ DCR

Region: ____ Northern ____ Metro ____ Central ✓ Southern ____ ER1 ____ ER2 ____ BUST

1. Name/Affil	Telefax /	Phone	Date/Time 5/22/89	0910 (T/M)
2. Name/Affil	/	Phone	Date/Time /	(T/M)
3. Name/Affil	/	Phone	Date/Time /	(T/M)

DEP RESPONSE Emergency Immediate Priority No Response

COMMENTS 2001 Called Camden County Comm. Spoke with Lt Moran. Fire is out and OEM available. 2024 Lt Moran unable call back - Aluminum Shapes has cleared up and will discuss d 05/22/89.

ATTACHMENT D-2