

Application Type  
Facility Type  
Major / Minor

Renewal  
Storm Water  
Minor

**NPDES PERMIT FACT SHEET  
INDIVIDUAL INDUSTRIAL WASTE (IW)  
AND IW STORMWATER**

Application No. **PA0255441**  
APS ID **1108515**  
Authorization ID **1475076**

**Applicant and Facility Information**

Applicant Name	<u>Duquesne Light Co.</u>	Facility Name	<u>Kissick Ash Disposal Site</u>
Applicant Address	<u>2825 New Beaver Avenue # N6-Tng</u>	Facility Address	<u>315 Log Cabin Road</u>
Applicant Contact	<u>Pittsburgh, PA 15233-1003</u>	Facility Contact	<u>Cheswick, PA 15024</u>
Applicant Phone	<u>John Bigi</u>	Facility Phone	<u>(412) 393-8119</u>
Client ID	<u>(412) 393-8119</u>	Site ID	<u>245647</u>
SIC Code	<u>33626</u>	Municipality	<u>Indiana Township</u>
SIC Description	<u>4953</u>	County	<u>Allegheny</u>
Date Application Received	<u>Trans. &amp; Utilities - Refuse Systems</u>	EPA Waived?	<u>Yes</u>
Date Application Accepted	<u>February 28, 2024</u>	If No, Reason	<u>July 16, 2024</u>
Purpose of Application	<u>Renewal of NPDES Permit PA0255441.</u>		

**Summary of Review**

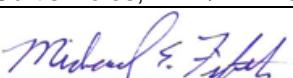
The Department received a renewal NPDES application from Duquesne Light Company (DLC) on February 28, 2024 for its Kissick Ash Disposal Site (KAD) located in Indiana Township, Allegheny County. The facility is a closed residual waste landfill. The landfill was operated by DLC for their exclusive use to dispose of coal-fired electrical generation waste streams. The facility's industrial activities are classified under SIC Code 4953 – Refuse Systems.

During operations of the KAD facility, materials received by the landfill consisted of fly ash, bottom ash draining treatment sludge, pyritic material, coal pile runoff sludge, mine floor sweepage, clarifier sludge, lime, lime grits, waste pond sludge, and ash treatment sludge. The Landfill was closed in 1997, prior to DCL's sale of the Cheswick Power Station in 2000. A soil cover was placed over the waste in 1997 and the site vegetated the same year. Leachate captured via underdrain piping is directed to the Monarch Mine Pool via the onsite borehole. From there it is expected to eventually be collected and treated at the Monarch Mine Treatment Plant (MMTP), sometimes also called the Monarch Mine Dewatering Plant.

The facility has two (2) stormwater Outfalls 001 and 002 that discharge to UNT to Little Deer Creek, designated in 25 PA Code Chapter 93 as a Trout Stock Fishery (TSF).

**Outfall 001**

The drainage area of Outfall 001 is 1,490,000 square feet and is 100% impervious. The drainage area consists of wooded undeveloped hillsides and closed; soil capped vegetated ash disposal area. Best management practices implemented in the drainage consists of maintenance of the soil cap, vegetative covers, and compliance with the PPC Plan.

Approve	Deny	Signatures	Date
X		 Curtis Holes, P.E. / Environmental Engineer	July 17, 2024
X		 Michael E. Fifth, P.E. / Environmental Engineer Manager	August 2, 2024

### **Summary of Review**

#### ***Outfall 002***

The drainage area of Outfall 002 is 270,400 square feet and is 100% impervious. The drainage area consists of wooded undeveloped hillsides and closed; soil capped vegetated ash disposal area. Best management practices implemented in the drainage consists of maintenance of the soil cap, vegetative covers, and compliance with the PPC Plan.

The Department by Shawn Bell last inspected the facility on May 26, 2021 with no violations noted.

The client has no open violations.

Residual waste disposal must meet solid waste regulations.

It is recommended that a draft permit be published for public comment in response to this application.

#### **Public Participation**

DEP will publish notice of the receipt of the NPDES permit application and a tentative decision to issue the individual NPDES permit in the *Pennsylvania Bulletin* in accordance with 25 Pa. Code § 92a.82. Upon publication in the *Pennsylvania Bulletin*, DEP will accept written comments from interested persons for a 30-day period (which may be extended for one additional 15-day period at DEP's discretion), which will be considered in making a final decision on the application. Any person may request or petition for a public hearing with respect to the application. A public hearing may be held if DEP determines that there is significant public interest in holding a hearing. If a hearing is held, notice of the hearing will be published in the *Pennsylvania Bulletin* at least 30 days prior to the hearing and in at least one newspaper of general circulation within the geographical area of the discharge.

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	001	Design Flow (MGD)	0.0 (varies)
Latitude	40° 34' 38.41"	Longitude	-79° 48' 54.29"
Quad Name	New Kensington West	Quad Code	1407
Wastewater Description:	Stormwater		
Receiving Waters	UNT to Little Deer Creek (TSF)	Stream Code	42291
NHD Com ID	123972759	RMI	0.4700
Drainage Area	0.9 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.00763
Q <sub>7-10</sub> Flow (cfs)	0.00687	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)	872	Slope (ft/ft)	
Watershed No.	18-A	Chapter 93 Class.	TSF
Existing Use	Trout Stock Fishery	Existing Use Qualifier	None
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, METALS, SILTATION, TOTAL DISSOLVED SOLIDS (TDS), TOTAL DISSOLVED SOLIDS (TDS), TURBIDITY		
Source(s) of Impairment	ACID MINE DRAINAGE, ACID MINE DRAINAGE, CONSTRUCTION, CONSTRUCTION, CONSTRUCTION, SUBSURFACE (HARDROCK) MINING		
TMDL Status	Final	Name	Little Deer Creek Watershed
Background/Ambient Data		Data Source	
pH (SU)	6.52 – 8.24	Upstream (SW-1) Data from DLC's SWM permit 300476	
Temperature (°F)			
Hardness (mg/L)	50 - 100	Upstream (SW-1) Data from DLC's SWM permit 300476	
Other:			
Nearest Downstream Public Water Supply Intake		Wilkinsburg-Penn JT Water Authority (66 MGD)	
PWS Waters	Allegheny River	Flow at Intake (cfs)	2,390
PWS RMI	8.67	Distance from Outfall (mi)	9.7

Changes Since Last Permit Issuance: None

Other Comments: None

Discharge, Receiving Waters and Water Supply Information			
Outfall No.	002	Design Flow (MGD)	0.0 (varies)
Latitude	40° 34' 34.63"	Longitude	-79° 48' 53.31"
Quad Name	New Kensington West	Quad Code	1407
Wastewater Description:	Stormwater		
Receiving Waters	UNT to Little Deer Creek (TSF)	Stream Code	42291
NHD Com ID	123972759	RMI	0.4200
Drainage Area	0.9 mi <sup>2</sup>	Yield (cfs/mi <sup>2</sup> )	0.00763
Q <sub>7-10</sub> Flow (cfs)	0.00687	Q <sub>7-10</sub> Basis	USGS StreamStats
Elevation (ft)	865	Slope (ft/ft)	
Watershed No.	18-A	Chapter 93 Class.	TSF
Existing Use	<b>Trout Stock Fishery</b>	Existing Use Qualifier	None
Exceptions to Use	None	Exceptions to Criteria	None
Assessment Status	Impaired		
Cause(s) of Impairment	FLOW REGIME MODIFICATION, METALS, SILTATION, TOTAL DISSOLVED SOLIDS (TDS), TOTAL DISSOLVED SOLIDS (TDS), TURBIDITY		
Source(s) of Impairment	ACID MINE DRAINAGE, ACID MINE DRAINAGE, CONSTRUCTION, CONSTRUCTION, CONSTRUCTION, SUBSURFACE (HARDROCK) MINING		
TMDL Status	Final	Name	Little Deer Creek Watershed
Background/Ambient Data			
pH (SU)	6.5 – 8.2	Data Source	Upstream (SW-1) Data from DLC's SWM permit 300476
Temperature (°F)			
Hardness (mg/L)	50 - 100		Upstream (SW-1) Data from DLC's SWM permit 300476
Other:			
Nearest Downstream Public Water Supply Intake	Wilkinsburg-Penn JT Water Authority (66 MGD)		
PWS Waters	Allegheny River	Flow at Intake (cfs)	2,390
PWS RMI	8.67	Distance from Outfall (mi)	9.2

Changes Since Last Permit Issuance: None

Other Comments: None

Treatment Facility Summary	
<b>Treatment Facility Name:</b> Cheswick Generating Station, Kissick Bottom Ash Landfill aka, Kissick Ash Disposal Site, Inlet to Monarch Mine Treatment Plant, under NPDES PA0001627, WQM Part II Permit 0270205.	
<b>WQM Permit No.</b> 0219200	<b>Issuance Date</b> 08/13/19
1. Slip-lining 36-inch piping into a run of 48-inch corrugated metal pipe (CWP) and 2. Capping the inlet of the 24-inch CWP and 3. Altering the drainage in the vicinity of the current 24-inch CWP inlet to redirect stormwater flow away from this inlet and toward the modified inlet of the 36-inch HDPE pipe.	

Changes Since Last Permit Issuance: **None**

Other Comments: **None**

Compliance History	
<b>Summary of DMRs:</b>	No violations of effluent limitations.
<b>Summary of Inspections:</b>	The Department last inspection was conducted by Shawn Bell on November 13, 2023 with no violations noted.

Other Comments: **None**

Compliance History

DMR Data for Outfall 001 (from June 1, 2023 to May 31, 2024)

Parameter	Benchmark	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23
pH (S.U.) Daily Maximum	<b>6.0 – 9.0</b>					8.2						7.8
COD (mg/L) Daily Maximum	<b>120.0</b>					< 9.1						36
TSS (mg/L) Daily Maximum	<b>100.0</b>					4.2						14
Total Iron (mg/L) Daily Maximum	<b>Report</b>					0.32						1.2

DMR Data for Outfall 002 (from June 1, 2023 to May 31, 2024)

Parameter	Benchmark	APR-24	MAR-24	FEB-24	JAN-24	DEC-23	NOV-23	OCT-23	SEP-23	AUG-23	JUL-23	JUN-23
pH (S.U.) Daily Maximum	<b>6.0 – 9.0</b>					8.3						7.5
COD (mg/L) Daily Maximum	<b>120.0</b>					< 9.1						31
TSS (mg/L) Daily Maximum	<b>100.0</b>					1.5						28
Total Iron (mg/L) Daily Maximum	<b>Report</b>					0.21						2.6

**Development of Effluent Limitations**

Outfall No. 001  
Latitude 40° 34' 38.41"

Design Flow (MGD) 0.0 (varies)  
Longitude -79° 48' 54.29"

Federal Effluent Limitation Guidelines (ELGs)

The Kissick Ash Disposal Site is a closed captive landfill with no other industrial activities at the site and not subject to Federal Effluent Limitation Guidelines (ELGs) as SIC Code 4953 is not listed under 40 CFR 445. When a facility is not captured by a Federal ELG, TBELs are then developed on a case-by-case- basis using Best Professional Judgement (BPJ).

Application Sampling Data Summary

Parameter	Max Concentration (mg/L)
Oil & Grease	<4.4
BOD <sub>5</sub>	3.4
COD	64
TSS	13
Total Nitrogen	1.413
Total Phosphorus	0.133
Ammonia	0.137
Phenol	0.033
Zinc	0.0115
Aluminum (µg/L)	942
Antimony (µg/L)	<0.429
Arsenic (µg/L)	0.8323
Barium (µg/L)	29.02
Beryllium (µg/L)	0.141
Boron (µg/L)	24.6
Cadmium (µg/L)	<0.0599
Chromium (µg/L)	1.51
Cobalt (µg/L)	0.497
Copper (µg/L)	3.913
Iron (µg/L)	909
Lead (µg/L)	1.563
Manganese (µg/L)	33.59
Mercury (µg/L)	0.174
Molybdenum (µg/L)	<0.67
Nickel (µg/L)	2.075
Selenium (µg/L)	<1.73
Silver (µg/L)	<0.163
Thallium (µg/L)	<0.143
Dissolved Iron (µg/L)	331
Hexavalent Chromium (µg/L)	13
TDS	130
Phosphorus	0.133
Chloride	8.120
Fluoride	0.105
Sulfate	15.3

Regulatory Effluent Standards and Monitoring Requirements

Consistent with the recommendations in Section III.C of the IW Effluent Limit SOP cited above, minimum standards described in the PAG-03 General Permit for "Discharges of Stormwater Associated with Industrial Activity" will be applied to KAD stormwater discharges. Based on KAD's SIC Code, the facility would be classified under Appendix C – Landfills and Land Application Sites. The monitoring requirements of Appendix C of the PAG-03 are displayed in Table 1.

**Table 1. PAG-03 – Appendix C Minimum Monitoring Requirements**

Discharge Parameter	Units	Sample Type	Benchmark Values
pH	S.U.	Grab	9.0
Total Suspended Solids	mg/L	Grab	100
Ammonia-Nitrogen*	mg/L	Grab	XXX
Chemical Oxygen Demand	mg/L	Grab	120.0
Total Iron	mg/L	Grab	XXX
Total Nitrogen	mg/L	Calculation	XXX
Total Phosphorus	mg/L	Grab	XXX

\* During the development of the previous permit it was determined that Ammonia-Nitrogen monitoring was not warranted and was not imposed.

To the extent that effluent limits would be necessary to ensure that the BMPs are adequately implemented, DEP's *Permit Writer's Manual* recommends that effluent limits be developed for industrial stormwater discharges based on a determination of Best Available Technology (BAT) using Best Professional Judgment (BPJ). Although BPJ of BAT typically involves the evaluation of end-of-pipe wastewater treatment technologies, DEP considers the use of BMPs to be BAT for KAD's stormwater in this current renewal process.

### **Water Quality-Based Effluent Limitations (WQBELs)**

#### **Stormwater WQBELs**

Water quality analyses are typically performed under low-flow (Q<sub>7-10</sub>) conditions. Stormwater discharges occur at variable rates and frequencies but not during Q<sub>7-10</sub> conditions. Since the discharges from Outfall 001 is composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

#### **Anti-Backsliding**

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (1) *Reissued permits.* (1) *Except as provided in paragraph (1)(2) of this section when a permit is renewed or reissued, interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62).* (2) *In the case of effluent limitations established based on Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.*

The pH benchmark of 9.0 S.U. was derived from the pH benchmark in the PAG-03 general permit. The pH benchmark in the PAG-03 was included to be consistent with EPA's 2021 MSGP. However, unlike in the MSGP, the Department did not include a minimum pH benchmark value of 6.0 in its PAG-03 General Permit. The Department only included a maximum benchmark value for pH because it has been well documented that the stormwater within Pennsylvania has a pH below 6.0 S.U. (acid rain). Please refer to the National Atmospheric Deposition Program 2022 Annual Summary [[2022as2.pdf](#) ([wisc.edu](#))] which confirms that the pH concentration of the stormwater in Pennsylvania is around is 5.3 S.U. With the possibility of the natural pH of the stormwater being below 6.0 without the influence of the subject permittee's industrial activities, the Department has deemed the imposition of a minimum stormwater benchmark of 6.0 S.U. to be improper and unjust and will not impose the lower limit.

**Monitoring Requirements for Outfall 001**

Effluent limits imposed at Outfall 001 are the most stringent of TBELs, WQBELs, regulatory effluent standards and monitoring requirements as discussed in the sections above. The applicable requirements for Outfall 001 are summarized in Table 2. The minimum sampling frequencies are chosen per PAG-03 guidelines and requirements and sampling types are applied based on Table 6-4 of *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (Document No. 362-0400-001, 10/97).

**Table 2. Monitoring Requirements and Benchmarks for the KAD Site Outfall 001**

Discharge Parameter	Units	Sample Type	Benchmark Values	Sample Frequency
pH	S.U.	Grab	9.0	1/6 months
Total Suspended Solids	mg/L	Grab	100.0	1/6 months
Iron, Total	mg/L	Grab	XXX	1/6 months
Chemical Oxygen Demand (COD)	mg/L	Grab	120.0	1/6 months
Total Nitrogen	mg/L	Calculation	XXX	1/6 months
Total Phosphorus	mg/L	Grab	XXX	1/6 months

**Development of Effluent Limitations**

Outfall No. 002

Design Flow (MGD) 0.0 (varies)

Latitude 40° 34' 34.63"

Longitude -79° 48' 53.31"

Wastewater Description: Stormwater from surface drainage

Federal Effluent Limitation Guidelines (ELGs)

The Kissick Ash Disposal Site is a closed captive landfill with no other industrial activities at the site and not subject to Federal Effluent Limitation Guidelines (ELGs) as SIC Code 4953 is not listed under 40 CFR 445. When a facility is not captured by a Federal ELG, TBELs are then developed on a case-by-case- basis using Best Professional Judgement (BPJ).

Application Sampling Data Summary

Parameter	Max Concentration (mg/L)
Oil & Grease	<4.4
BOD <sub>5</sub>	<2.0
COD	32.0
TSS	18
Total Nitrogen	0.831
Total Phosphorus	0.173
Ammonia	1.793
Phenol	0.027
Zinc	0.02321
Aluminum (µg/L)	923
Antimony (µg/L)	<0.429
Arsenic (µg/L)	1.036
Barium (µg/L)	28.64
Beryllium (µg/L)	<0.1072
Boron (µg/L)	20.9
Cadmium (µg/L)	<0.0599
Chromium (µg/L)	1.609
Cobalt (µg/L)	0.7139
Copper (µg/L)	2.729
Iron (µg/L)	1,200
Lead (µg/L)	1.523
Manganese (µg/L)	44.86
Mercury (µg/L)	0.098
Molybdenum (µg/L)	<0.67
Nickel (µg/L)	2.011
Selenium (µg/L)	<1.73
Silver (µg/L)	<0.163
Thallium (µg/L)	<0.143
Dissolved Iron (µg/L)	331
Hexavalent Chromium (µg/L)	5.0
TDS	170
Phosphorus	0.173
Chloride	13.2
Fluoride	0.151
Sulfate	22.9

Regulatory Effluent Standards and Monitoring Requirements

Consistent with the recommendations in Section III.C of the IW Effluent Limit SOP cited above, minimum standards described in the PAG-03 General Permit for "Discharges of Stormwater Associated with Industrial Activity" will be applied to KAD stormwater discharges. Based on KAD's SIC Code, the facility would be classified under Appendix C – Landfills and Land Application Sites. The monitoring requirements of Appendix C of the PAG-03 are displayed in Table 3.

**Table 3. PAG-03 – Appendix C Minimum Monitoring Requirements**

Discharge Parameter	Units	Sample Type	Benchmark Values
pH	S.U.	Grab	9.0
Total Suspended Solids	mg/L	Grab	100
Ammonia-Nitrogen*	mg/L	Grab	XXX
Chemical Oxygen Demand	mg/L	Grab	120.0
Total Iron	mg/L	Grab	XXX
Total Nitrogen	mg/L	Calculation	XXX
Total Phosphorus	mg/L	Grab	XXX

\* During the development of the previous permit it was determined that Ammonia-Nitrogen monitoring was not imposed.

To the extent that effluent limits would be necessary to ensure that the BMPs are adequately implemented, DEP's *Permit Writer's Manual* recommends that effluent limits be developed for industrial stormwater discharges based on a determination of Best Available Technology (BAT) using Best Professional Judgment (BPJ). Although BPJ of BAT typically involves the evaluation of end-of-pipe wastewater treatment technologies, DEP considers the use of BMPs to be BAT for KAD's stormwater in this current renewal process.

### **Water Quality-Based Effluent Limitations (WQBELs)**

#### Stormwater WQBELs

Water quality analyses are typically performed under low-flow (Q<sub>7-10</sub>) conditions. Stormwater discharges occur at variable rates and frequencies but not during Q<sub>7-10</sub> conditions. Since the discharges from Outfall 002 is composed entirely of stormwater, a formal water quality analysis cannot be accurately conducted. Accordingly, water quality-based effluent limitations based on water quality analyses are not proposed.

#### Anti-Backsliding

Section 402(o) of the Clean Water Act (CWA), enacted in the Water Quality Act of 1987, establishes anti-backsliding rules governing two situations. The first situation occurs when a permittee seeks to revise a Technology-Based effluent limitation based on BPJ to reflect a subsequently promulgated effluent guideline which is less stringent. The second situation addressed by Section 402(o) arises when a permittee seeks relaxation of an effluent limitation which is based upon a State treatment standard of water quality standard.

Previous limits can be used pursuant to EPA's anti-backsliding regulation 40 CFR 122.44 (1) *Reissued permits.* (1) Except as provided in paragraph (1)(2) of this section when a permit is renewed or reissued, interim effluent limitations, standards or conditions must be at least as stringent as the final effluent limitations, standards, or conditions in the previous permit (unless the circumstances on which the previous permit was based have materially and substantially changed since the time the permit was issued and would constitute cause for permit modification or revocation and reissuance under §122.62). (2) In the case of effluent limitations established based on Section 402(a)(1)(B) of the CWA, a permit may not be renewed, reissued, or modified on the basis of effluent guidelines promulgated under section 304(b) subsequent to the original issuance of such permit, to contain effluent limitations which are less stringent than the comparable effluent limitations in the previous permit.

The pH benchmark of 9.0 S.U. was derived from the pH benchmark in the PAG-03 general permit. The pH benchmark in the PAG-03 was included to be consistent with EPA's 2021 MSGP. However, unlike in the MSGP, the Department did not include a minimum pH benchmark value of 6.0 in its PAG-03 General Permit. The Department only included a maximum benchmark value for pH because it has been well documented that the stormwater within Pennsylvania has a pH below 6.0 S.U. (acid rain). Please refer to the National Atmospheric Deposition Program 2022 Annual Summary [[2022as2.pdf](https://www.wisc.edu)] which confirms that the pH concentration of the stormwater in Pennsylvania is around 5.3 S.U. With the possibility of the natural pH of the stormwater being below 6.0 without the influence of the subject permittee's industrial

activities, the Department has deemed the imposition of a minimum stormwater benchmark of 6.0 S.U. to be improper and unjust and will not impose the lower limit.

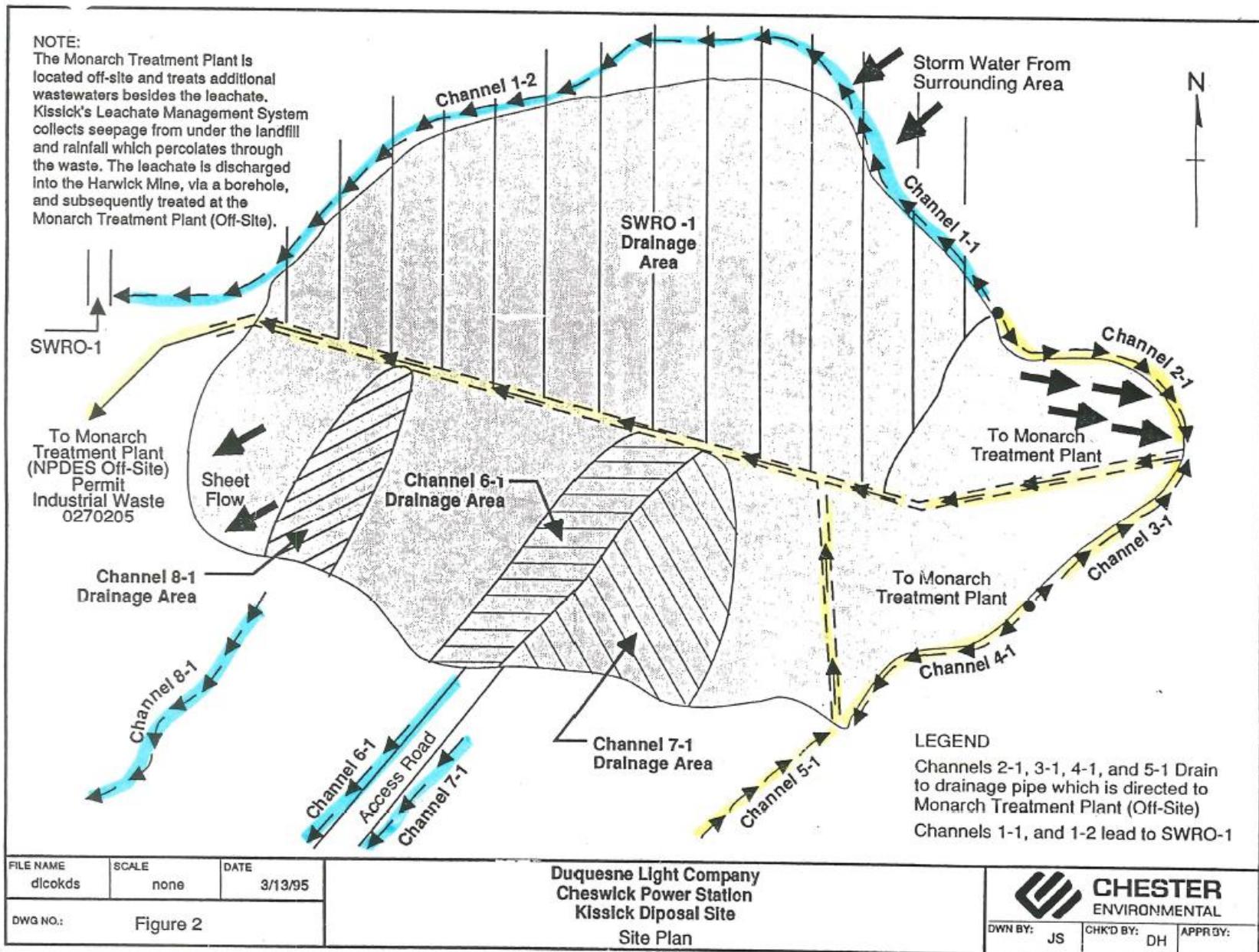
**Monitoring Requirements for Outfall 002**

Effluent limits imposed at Outfall 002 are the most stringent of TBELs, WQBELs, regulatory effluent standards and monitoring requirements as discussed in the sections above. The applicable requirements for Outfall 002 are summarized in Table 4. The minimum sampling frequencies are chosen per PAG-03 guidelines and requirements and sampling types are applied based on Table 6-4 of *Technical Guidance for the Development and Specification of Effluent Limitations and Other Permit Conditions in NPDES Permits* (Document No. 362-0400-001, 10/97).

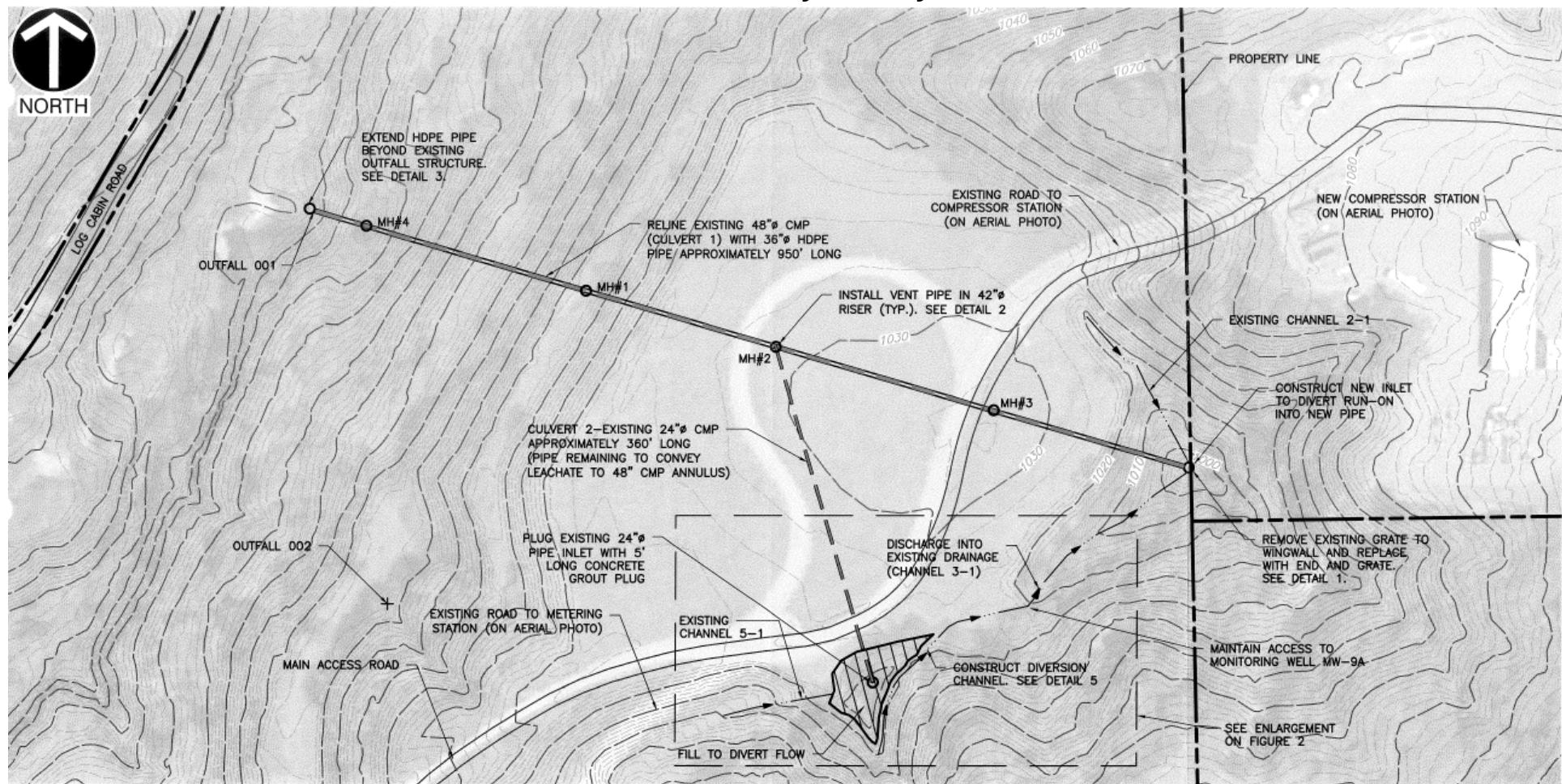
**Table 4. Monitoring Requirements and Benchmarks for the KAD Site Outfall 001**

Discharge Parameter	Units	Sample Type	Benchmark Values	Sample Frequency
pH	S.U.	Grab	9.0	1/6 months
Total Suspended Solids	mg/L	Grab	100.0	1/6 months
Iron, Total	mg/L	Grab	XXX	1/6 months
Chemical Oxygen Demand (COD)	mg/L	Grab	120.0	1/6 months
Total Nitrogen	mg/L	Calculation	XXX	1/6 months
Total Phosphorus	mg/L	Grab	XXX	1/6 months

## Site Plan

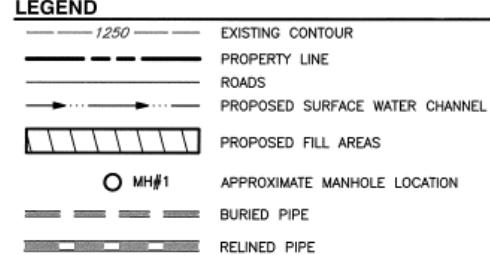


## Leachate Conveyance System



## REFERENCE

1. EXISTING CONTOURS DERIVED FROM THE PAMAP PROGRAM 3.2 FT DIGITAL ELEVATION MODEL OF PENNSYLVANIA; DEVELOPED BY PAMAP PROGRAM, PA DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES, BUREAU OF TOPOGRAPHIC AND GELOGIC SURVEY; DATED 2006.
2. GOOGLE EARTH PRO IMAGERY, IMAGE DATE: JUNE 14, 2014.

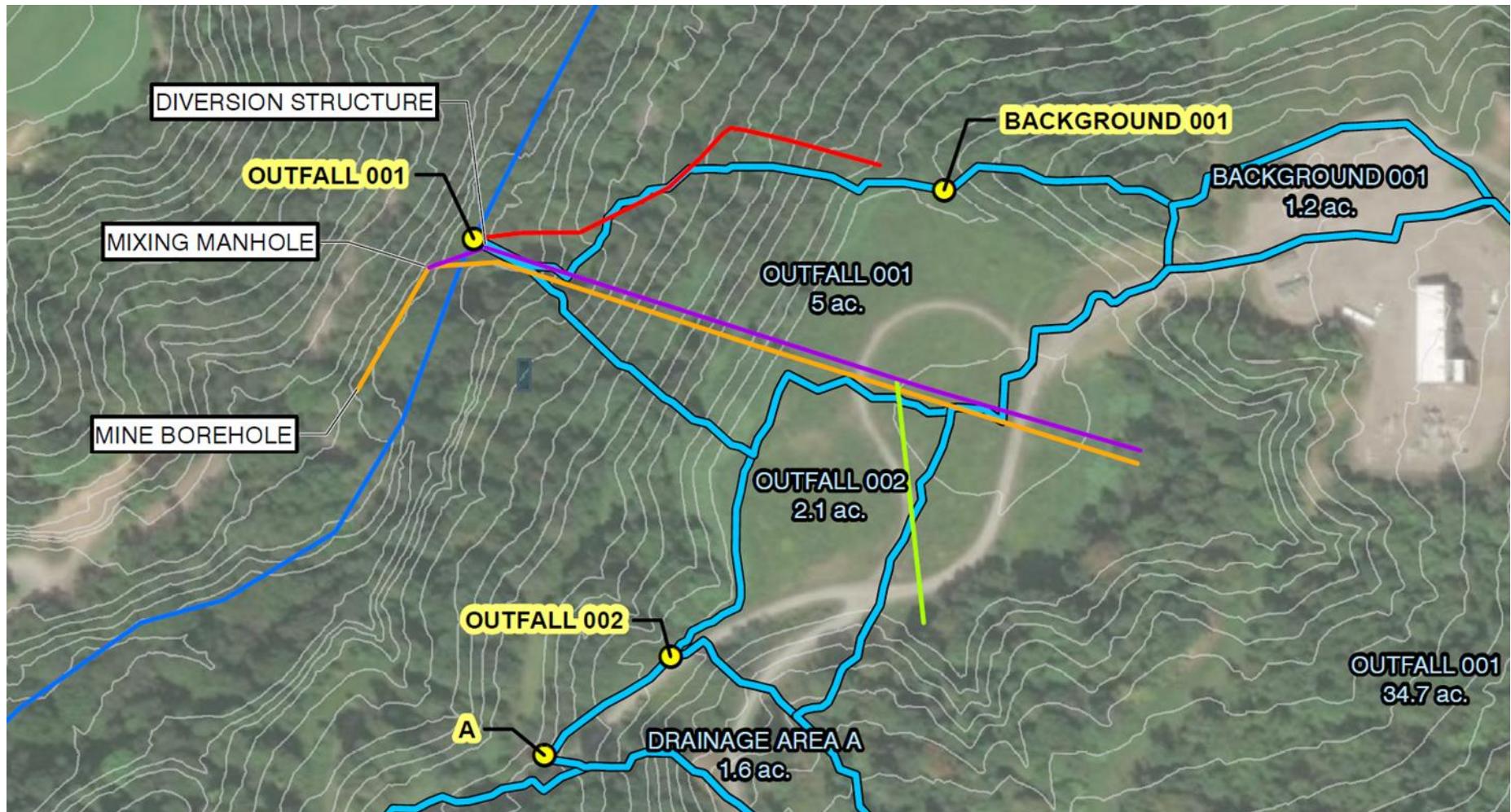


The logo for CEC Civil & Environmental Consultants, Inc. It features a stylized, blocky 'CEC' monogram in a dark blue, sans-serif font. Below the monogram, the company name 'Civil & Environmental Consultants, Inc.' is written in a smaller, bold, black, sans-serif font. Underneath that, the address '333 Baldwin Road - Pittsburgh, PA 15205' and phone number '412-429-2324 - 800-365-2324' are in a standard black font. At the bottom, the website 'www.cenic.com' is in a smaller, italicized black font.

DUQUESNE LIGHT COMPANY  
KISSICK DISPOSAL SITE  
INDIANA TOWNSHIP, ALLEGHENY CO., PA

## SLIP LINING PLAN

DRAWN BY: SCC CHECKED BY: BDC APPROVED BY: BDC\* FIGURE NO.: 1  
DATE: 5/20/2019 DWG SCALE: 1"=100' PROJECT NO: 140-085



#### LEGEND

●	OUTFALL LOCATIONS	—	24" CMP SURFACE/STORM WATER
□	WATERSHED AREAS	—	48" CMP SURFACE/STORM WATER
—	STREAM	—	24" CMP LEACHATE
—	10' CONTOUR (2006)	—	CONCRETE DRAINAGE CHANNEL