

MPLX GP LLC

Audit Committee Charter

(Amended and Restated effective January 24, 2024)

The Board of Directors (the “Board”) of MPLX GP LLC (the “Company”), the general partner of MPLX LP (the “Partnership”), has established the Audit Committee (the “Committee”) as a standing committee of the Board.

Definitions

Capitalized terms used but not defined herein shall have the meanings set forth in the Sixth Amended and Restated Agreement of Limited Partnership of the Partnership (as may be amended from time to time, the “Partnership Agreement”).

Statement of Purpose

The purpose of this Audit Committee Charter is to document the scope of the authority and responsibilities of the Committee. The primary purposes of the Committee are to prepare the Committee disclosures required by the Securities and Exchange Commission (the “Commission” or the “SEC”) rules and regulations to be included in the Partnership’s annual report and to assist the Board in fulfilling its oversight responsibility relating to (i) the engagement of the independent auditor and the evaluation of the independent auditor’s qualifications, independence and performance, (ii) the performance of the internal audit function, (iii) the integrity of the Partnership’s financial statements and financial reporting process, and the Partnership’s systems of internal accounting and financial controls, (iv) the annual independent audit of the Partnership’s financial statements, (v) the Partnership’s compliance with legal and regulatory requirements, and (vi) the fulfillment of the other responsibilities set forth in this charter.

The Committee’s principal responsibility is one of oversight. The Company’s management is responsible for preparing the Partnership’s financial statements and for establishing and maintaining internal control over financial reporting, and the independent auditors are responsible for auditing and reviewing those financial statements and the effectiveness of internal control over financial reporting. Additionally, the Committee recognizes that financial management, as well as the internal and independent auditors, have more knowledge and more detailed information about the Partnership than do the members of the Committee; consequently, in carrying out its oversight responsibilities, the Committee is not providing any expert or special assurance as to the Partnership’s financial statements or any professional certification as to the work of the independent auditors.

Authority

The Committee shall have the authority and responsibility to conduct or authorize investigations into any matters within the scope of its responsibility. The Committee shall have full authority (i) to investigate any matter brought to its attention with full access to all books, records, facilities and personnel of the Company, (ii) to retain independent legal, accounting or other advisors or consultants to advise the Committee, and (iii) to request any officer or employee of the Company or its Affiliates, the Company's outside counsel, inside counsel, independent auditors or internal auditors to attend a meeting of the Committee or to meet with any members of, or consultants to, the Committee.

The Committee shall have and may exercise all the power and authority of the Board, except as may be prohibited by applicable law, rule or regulation with respect to all matters encompassed by this charter, specifically including all the power and authority required under the Sarbanes-Oxley Act of 2002. The powers and responsibilities delegated by the Board to the Committee in this charter or otherwise shall be exercised and carried out by the Committee as it deems appropriate without requirement of Board approval, and any decision made by the Committee (including any decision to exercise or refrain from exercising any of the powers delegated to the Committee hereunder) shall be at the Committee's sole discretion.

The Company shall provide appropriate funding, as determined by the Committee, for payment of: (i) compensation to the independent auditor for the purpose of preparing or issuing an audit report or performing other audit, review or attest services for the Partnership; (ii) compensation to any advisors employed by the Committee; and (iii) ordinary administrative expenses of the Committee necessary or appropriate for carrying out its duties.

Membership

The Committee shall be comprised exclusively of three or more members of the Board who are independent and qualified under standards established by applicable law and stock exchange listing standards. Each member of the Committee shall be "financially literate" as determined by the Board in its business judgment, or must become financially literate within a reasonable period of time after his or her appointment to the Committee. At least one member of the Committee shall be an "audit committee financial expert," as defined by the rules of the Commission. No director who serves on the audit committees of more than two other public companies may serve on the Committee, unless the Board determines that such simultaneous service will not impair the ability of such director to effectively serve on the Committee and discloses such determination as required by the New York Stock Exchange (the "NYSE") Listed Company Manual. Except in any such member's capacity as a member of the Committee, the Board, or any other Board committee, no member shall accept, directly or indirectly, any consulting, advisory or other compensatory fee from the Company or its Affiliates, or be an affiliated person of the Company or its Affiliates.

The members of the Committee shall be appointed by the Board, and shall serve until their successors are duly elected and qualified (or until their earlier death, resignation or removal). The Board shall have the authority at any time to remove one or more members of the Committee. The Chair of the Committee shall be designated by the Board. If the Board should fail to elect a Chair

of the Committee, or should the Chair of the Committee be absent or unavailable, the members of the Committee may designate an acting Chair of the Committee by majority vote of the Committee membership.

Meetings

The Committee will meet at least four times each year, with authority to convene additional meetings as circumstances require. All Committee members are expected to attend each meeting, in person or via teleconference. The Committee may invite members of the Company's management, internal or independent auditors or others to attend meetings and provide pertinent information, as necessary. All directors who are not members of the Committee may attend and observe meetings of the Committee, but shall not participate in any discussion or deliberation unless invited to do so by the Committee, and in any event shall not be entitled to vote. Notwithstanding the foregoing, the Committee may also exclude from its meetings any persons it deems appropriate, including, but not limited to, any director who is not a member of the Committee. Meeting agendas will be prepared by or under the supervision of the Chair of the Committee and provided in advance to members, along with appropriate briefing materials. Minutes of each meeting shall be prepared.

Quorum

A majority of the total number of Committee members then in office shall constitute a quorum for the transaction of business at any meeting. All matters shall be decided by the affirmative vote of a majority of the Committee membership present in person or via teleconference at a meeting duly called and held, unless a greater number is required by applicable law, rule or regulation.

Relationship with Independent Auditor

One of the important duties of the Committee is the relationship of the Company with the Partnership's independent auditor. The independent auditor is ultimately accountable to the Board and the Committee. The independent auditor shall report directly to the Committee.

Responsibilities

The following shall be the principal responsibilities of the Committee:

Independent Auditor Matters

1. *Determination of Independence, Recommendation and Engagement of Independent Auditor.* Prior to the initial engagement of any public accounting firm as the Partnership's independent auditor, the Committee shall obtain and review a written report from such independent auditors regarding all relationships between such independent auditors or their affiliates (as defined by the Public Company Accounting Oversight Board (the "PCAOB")) and the Partnership or its Affiliates or persons in a financial reporting oversight role, including all matters set forth in PCAOB Rule 3526. The Committee shall discuss such report and the potential effects of such relationships

with the independent auditors before their initial engagement. The substance of such discussion shall be documented in writing. Thereafter, the Committee shall annually review the independence letter issued by the independent auditor, actively engage in a dialogue with the independent auditor with respect to any relationships disclosed in that letter, discuss the independence matters required by the PCAOB's rules as may be modified or supplemented and report to the Board any appropriate action necessary to maintain the auditor's continuing independence. The Committee shall annually recommend to the Board the firm of independent auditors to be engaged to audit the financial statements of the Partnership, and the Committee shall be directly responsible for the appointment, compensation, retention and oversight of the work of the independent auditor (including resolution of disagreements between the Company's management and the independent auditor regarding financial reporting) for the purpose of preparing or issuing an audit report or performing other audit, review or attest services for the Partnership.

2. *Approval of Audit and Non-Audit Fees and Services of Independent Auditor.* The Committee shall review the fees proposed for the coming year and approve the final fees and expenses of the independent auditor for audit, audit-related, tax and permissible non-audit services performed by the independent auditor for the past year, and approve in advance all audit, audit-related, tax and permissible non-audit services to be performed by the independent auditor subject to the de minimis exception for non-audit services described in Section 10A(i)(1)(B) of the Securities Exchange Act of 1934, as amended, and the applicable rules and regulations of the Commission that are approved by the Committee prior to the completion of the audit. However, in accordance with and as defined by applicable law, in no event shall the non-audit services include (i) bookkeeping or other services related to the accounting records or financial statements of the Partnership, (ii) financial information systems design and implementation, (iii) appraisal or valuation services, fairness opinions or contribution-in-kind reports, (iv) actuarial services, (v) internal audit outsourcing services, (vi) management functions or human resources functions, (vii) broker or dealer, investment advisor or investment banking services, (viii) legal services and expert services unrelated to the audit, and (ix) any other service that the Board determines is impermissible. Notwithstanding the foregoing, the Chair of the Committee is hereby given pre-approval authority of up to \$250,000 for unbudgeted fees and expenses of the independent auditor for audit, audit-related, tax and permissible non-audit services.
3. *Evaluation of Independent Auditor.* The Committee shall annually review a report by the independent auditor, which sets forth (i) a description of the firm's internal quality-control procedures, (ii) any material issues raised by the most recent internal quality-control review or peer review of the firm, or by any inquiry or investigation by governmental or professional authorities, within the preceding five years, respecting one or more independent audits carried out by the firm, and any steps taken to deal with any such issues, and (iii) (to help the Committee assess the auditor's independence) all relationships between the independent auditor and the Partnership, as contemplated by applicable requirements of the PCAOB concerning auditor independence. This

evaluation should include the review and evaluation of the lead partner of the independent auditor.

4. Rotation of Lead Audit Partner and Audit Firm. The Committee shall assure the regular rotation of the lead audit partner as required by law and consider whether there should be a regular rotation of the audit firm itself.
5. Guidelines for Employment of Staff of Independent Auditor. The Committee shall establish guidelines for the hiring by the Company or its Affiliates of employees or former employees of the independent auditor, which shall meet the requirements of applicable law and listing standards.

Independent and Internal Auditor Matters

6. Audits by Independent and Internal Auditors. The Committee shall annually review the scope of audit activities of both the independent auditor and the internal audit staff, including a review of risk assessment strategies.
7. Meetings with Independent and Internal Auditors and Management. The Committee shall meet separately and periodically with the independent auditor, the internal audit staff and management with respect to the status and results of their activities including, without limitation, with respect to the independent auditor (i) any audit problems (including any restrictions on the scope of the independent auditor's activities or on access to requested information, and any significant disagreements with management) and management's response thereto, (ii) all critical accounting policies and practices used, (iii) all alternative treatments of financial information within generally accepted accounting principles discussed with management, including ramifications with respect thereto and the treatment preferred by the independent auditor, and (iv) other material written communications between the independent auditor and management.

Internal Auditor Matters

8. Internal Audit Function's Access to Board, Audit Committee and Management. The Committee shall ensure that the internal audit function is structured in a manner that permits the internal audit staff to maintain its organizational independence, have full and unrestricted access to the Board, the Committee, management and the Partnership's records, personnel and physical properties relevant to the fulfillment of its duties.
9. Review of Internal Audit Function's Charter, Qualifications and Quality Control. The Committee shall annually review the internal audit function's charter, the experience and qualifications of the senior members of the internal audit staff and the quality control procedures of the internal auditors.
10. Review of Chief Audit Executive's Appointment, Removal, Performance and Compensation. The Committee shall review the appointment and removal of the chief

audit executive. In addition, the Committee shall annually review the performance and compensation of the chief audit executive.

11. Review of Internal Audit Function's Annual Audit Plan and Expense Budget. The Committee shall annually review the internal audit function's plan and any significant changes thereto, as well as the allocation of the expense budget required to execute the annual audit plan for the Partnership.

Financial Statement and Other Disclosure Matters

12. Review of Annual and Quarterly SEC Filings. The Committee shall review and meet to discuss with management and the independent auditor the Partnership's audited annual financial statements and quarterly financial statements, including Forms 10-K and 10-Q prior to their filing, giving special consideration in any such review to material changes in accounting policy and assessing the fairness of the financial statements and disclosures including, without limitation, the Partnership's disclosures in Management's Discussion and Analysis contained in any such report.
13. Environmental, Social and Governance ("ESG") and Climate Risk Disclosures. The Committee shall review legislative and regulatory developments, including changes to the Commission's rules and regulations, affecting ESG and climate risk disclosures within the financial reporting framework and should monitor developments in integrated reporting for these areas for alignment with financial reporting.
14. Review of Earnings Releases, Financial Information and Guidance. The Committee or Chair of the Committee shall review quarterly earnings press releases of the Partnership prior to their publication, and discuss any financial information and any earnings guidance to be provided.
15. Review of Internal Control Reports. The Committee shall review the internal control reports to be included in the Partnership's annual and quarterly reports, which shall provide that it is the responsibility of management to establish and maintain an adequate internal control structure and procedures for financial reporting, and contain an assessment of the effectiveness of such structure and procedures as of the end of the period covered by the report.
16. Review of Disclosure Controls and Procedures. The Committee shall review with the Company's Chief Executive Officer, the Chief Financial Officer, the Chief Accounting Officer and the Chief Legal Officer, the Partnership's disclosure controls and procedures and shall review periodically, but in no event less frequently than quarterly, management's conclusions about the efficacy of such disclosure controls and procedures, including any significant deficiencies in, or material non-compliance with, such controls and procedures.

17. Preparation of Disclosures for Annual Report. The Committee shall produce the Committee disclosures required by the Commission rules and regulations to be included in the Partnership's annual report.

Legal and Compliance Matters

18. NYSE Confirmations. The Committee shall ensure that the Company provides the NYSE with applicable written confirmations, including, but not limited to, any confirmations regarding: (i) any determination the Board has made regarding the independence of Committee members; (ii) financial literacy of Committee members; and (iii) the determination that at least one of the Committee members has accounting or related financial management expertise.
19. Whistleblowing Procedures. The Committee shall establish procedures for (i) the receipt, retention and treatment of complaints received by the Partnership regarding accounting, internal accounting controls or auditing matters, and (ii) the confidential, anonymous submission by employees of the Company or its Affiliates of concerns regarding questionable accounting or auditing matters.
20. Legal and Regulatory Compliance. The Committee shall periodically review with management, including the Chief Legal Officer and the Chief Compliance Officer, and with the independent auditor, any correspondence with, or other action by, regulators or governmental agencies and any complaints or published reports that raise concerns regarding the Partnership's financial statements, accounting or auditing matters or compliance with the Code of Business Conduct, Code of Ethics for Senior Financial Officers or Whistleblowing Procedures. The Committee shall also meet periodically and separately with the Chief Legal Officer and other appropriate legal staff of the Company to review material legal affairs of the Company and with the Chief Compliance Officer to review the Company's compliance with applicable law and listing standards.

Risk Management Matters

21. Risk Assessment and Risk Management. The Committee shall oversee the Partnership's risk management process and discuss with management, including the Company's Chief Executive Officer, guidelines and policies to govern the process by which risk assessment and risk management is undertaken by the Company on behalf of the Partnership. The Committee shall also review and discuss with management the Partnership's major financial risk exposures and the steps management has taken to monitor and control such exposures.
22. Information Systems. The Committee shall review the Partnership's information technology systems and controls relating to business continuity, data privacy and cybersecurity, and contingency plans in the event of a failure of such systems.

23. Review of Business Expense Reporting. The Committee shall annually review the business expense reporting of the officers of the Company.

Other Matters

24. Report to Board of Directors. The Committee shall make regular reports to the Board on its findings and recommendations, including on any significant issues with respect to the quality and integrity of the Partnership's financial statements or the performance of the independent auditor.
25. Delegation. The Committee may delegate any of its responsibilities to a subcommittee comprised of one or more members of the Committee, including the authority to grant pre-approvals of audit, audit-related, tax and permissible non-audit services, provided that decisions of such subcommittee to grant pre-approvals shall be presented to the full Committee at its next scheduled meeting.
26. Other Delegated Responsibilities. The Committee shall also carry out such other duties as may be delegated to it by the Board from time to time.
27. Committee Performance Evaluation. The Committee shall develop criteria for evaluation of its performance consistent with the responsibilities set forth in this charter and evaluate its performance on an annual basis. In addition, the Board shall evaluate the performance and effectiveness of the Committee on an annual basis to ensure an effective control environment and adequate internal controls over financial reporting.
28. Review of Charter. The Committee shall assess and report to the Board, on an annual basis, regarding the adequacy of this charter.